



НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ  
УНИВЕРСИТЕТ

Библиотека

# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ

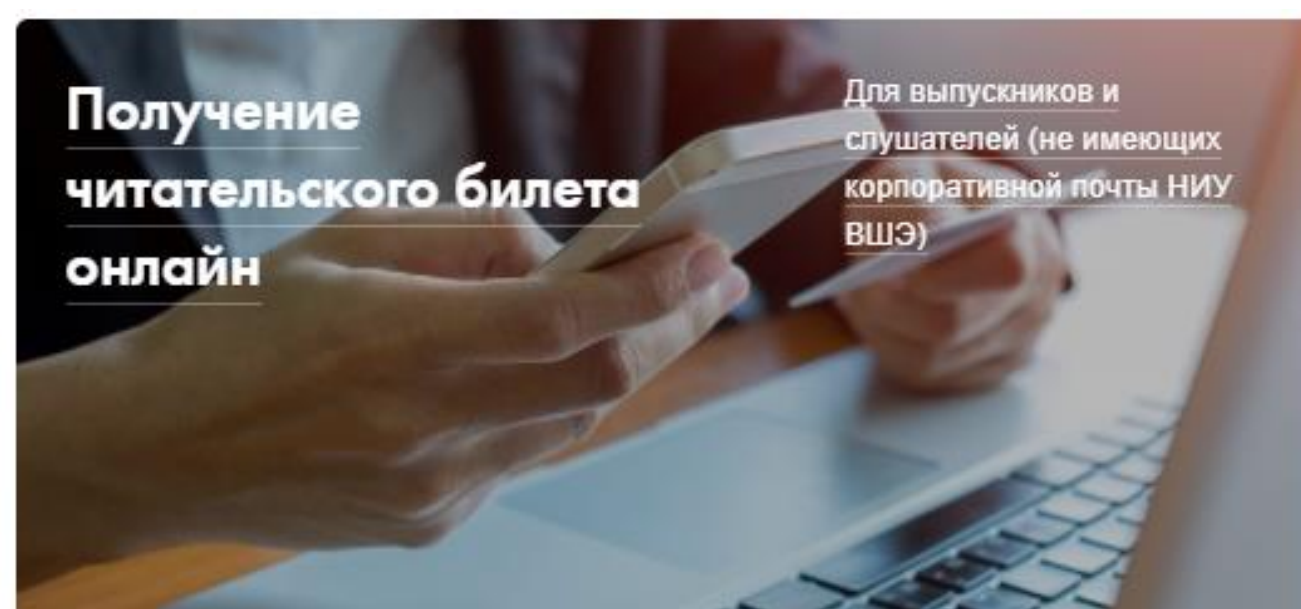
Российские постдоки НИУ ВШЭ  
Семинар

Москва, 2021

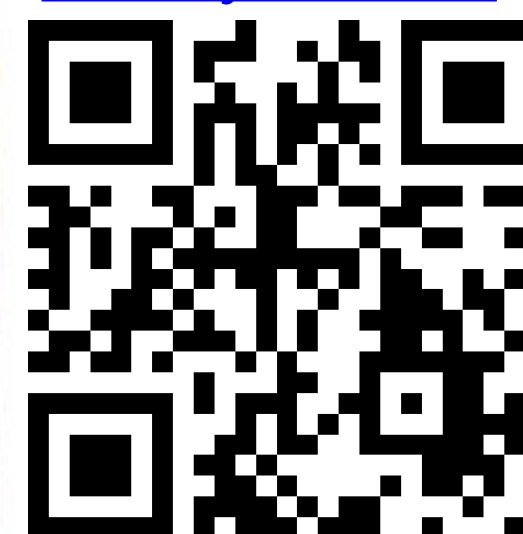
# САЙТ БИБЛИОТЕКИ НИУ ВШЭ

Единое окно предоставления онлайн-услуг

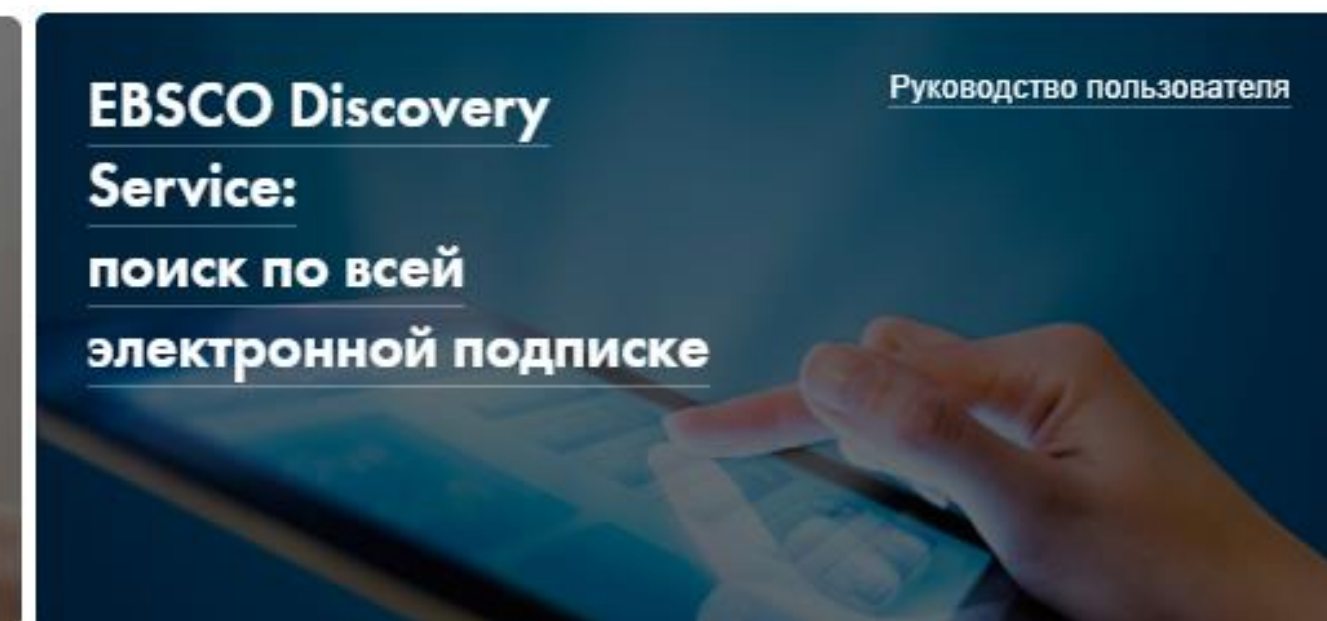
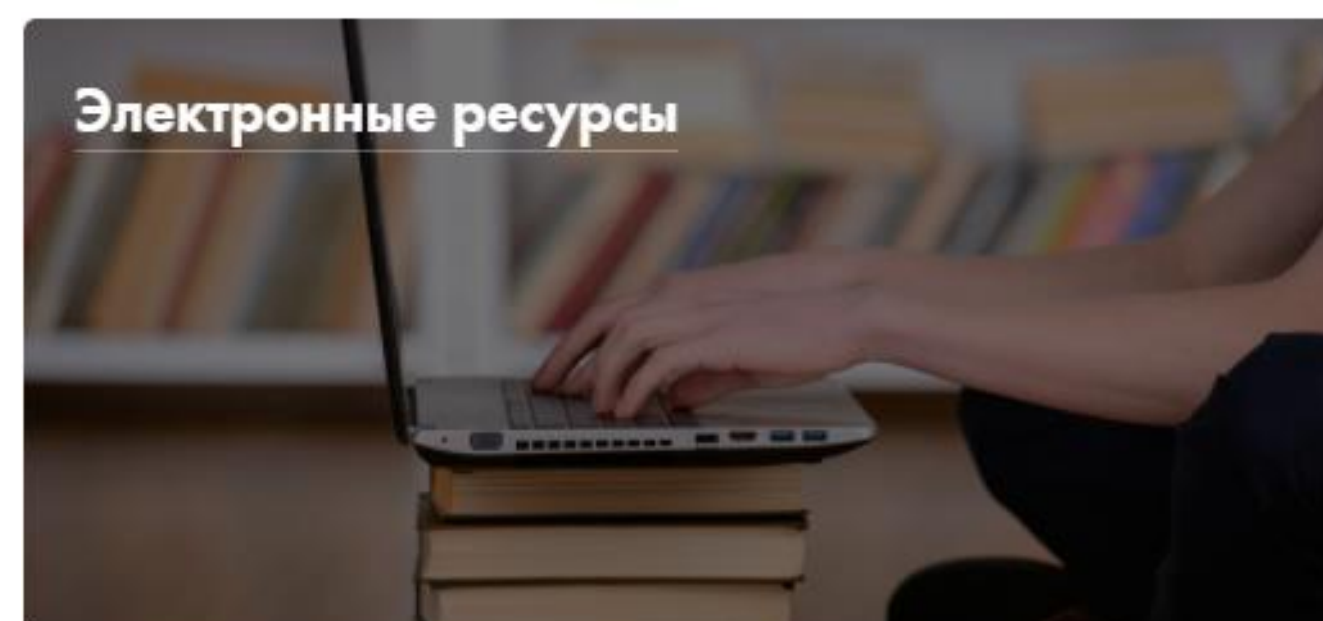
Работа с печатным фондом Библиотеки



[library.hse.ru](http://library.hse.ru)

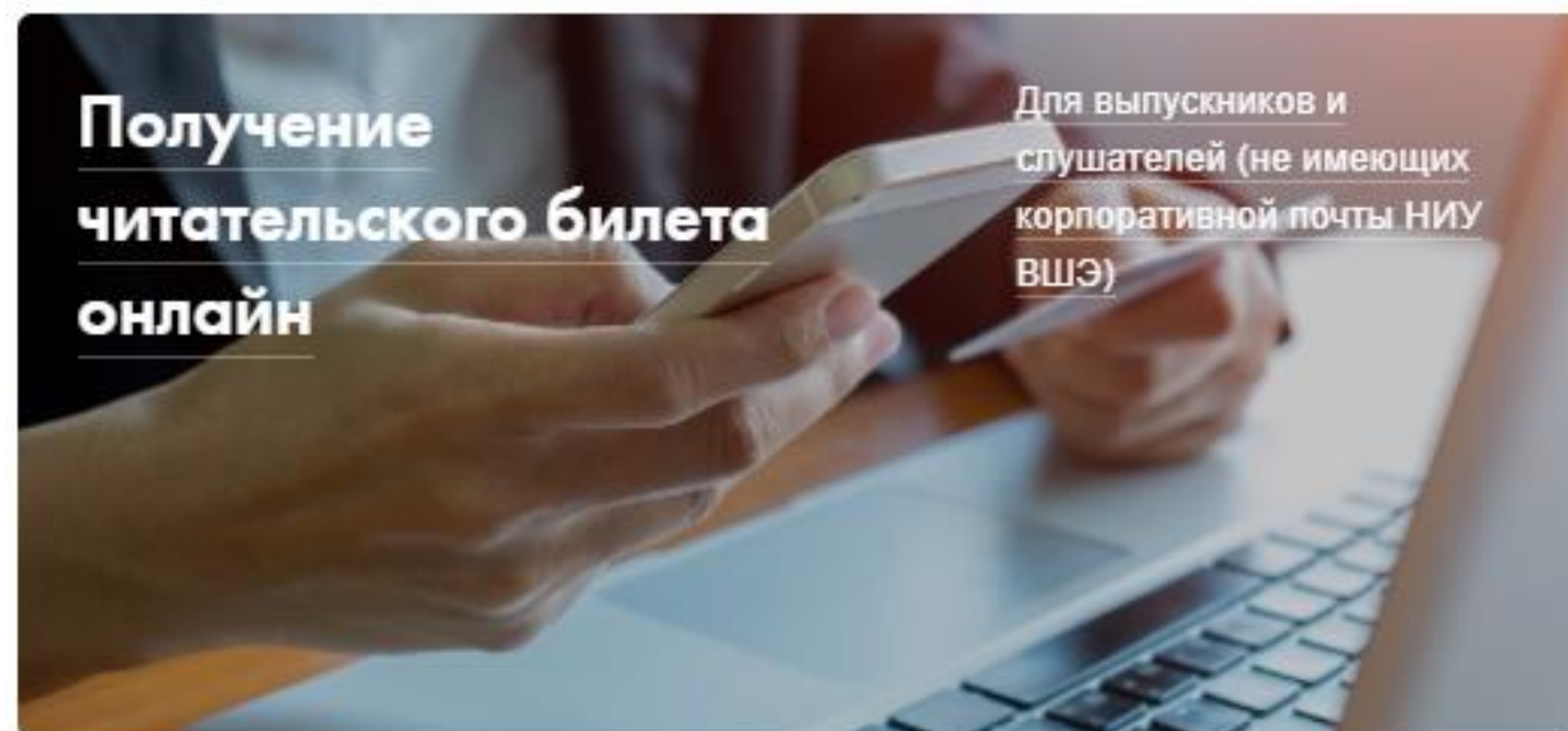


Работа с электронными ресурсами Библиотеки



# САЙТ БИБЛИОТЕКИ НИУ ВШЭ

## Получение читательского билета онлайн



[https://elib.hse.ru/e-resources/library/appl\\_form.htm](https://elib.hse.ru/e-resources/library/appl_form.htm)

Регистрационная форма для онлайн-записи в Библиотеку обучающихся и работников НИУ ВШЭ (Москва).

Фамилия

Имя

Отчество

Департамент/Факультет

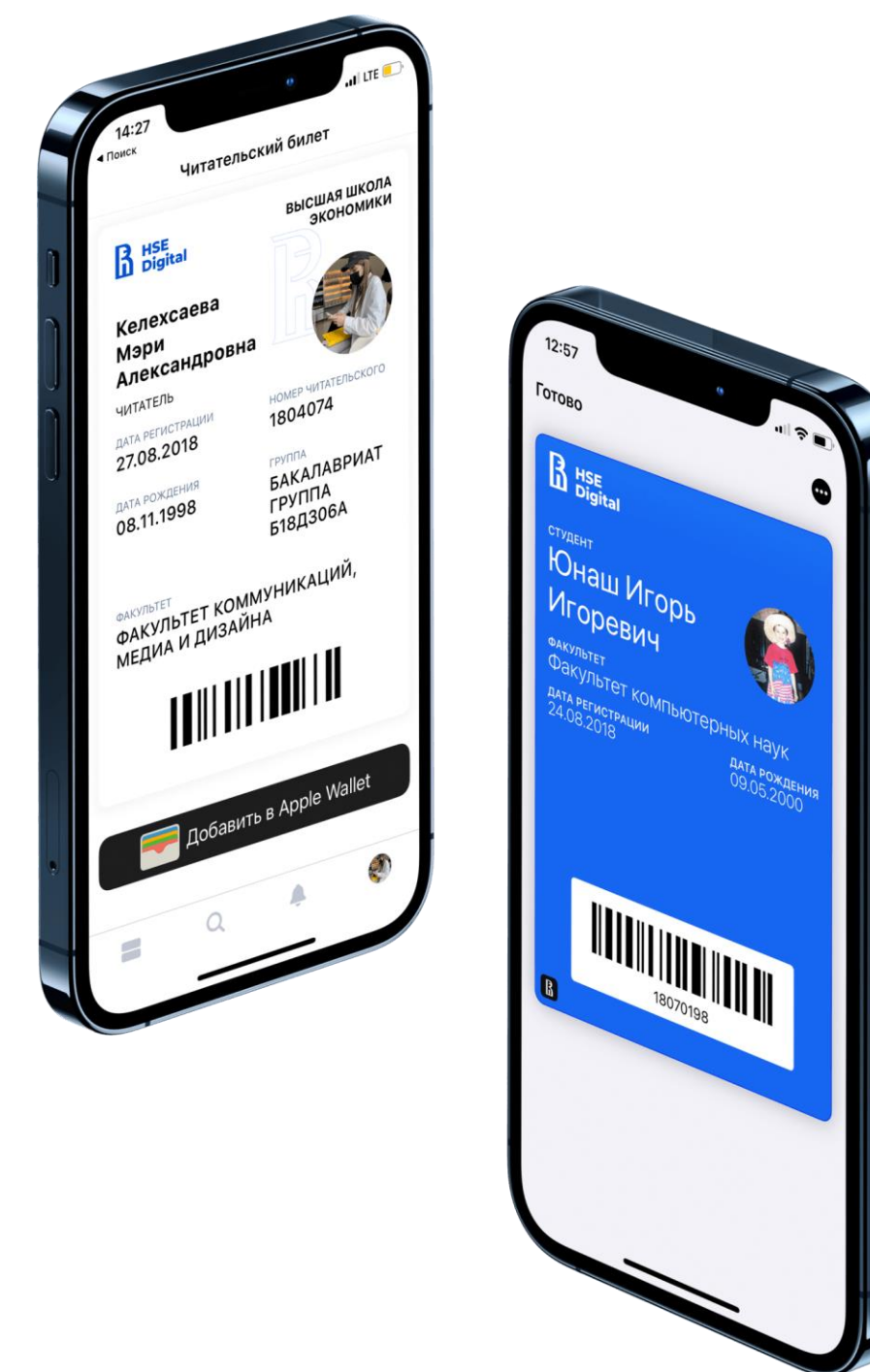
Статус: сотрудник, студент / форма обучения

Курс (для студента) / Должность (для работника)

Номер студенческого билета/ удостоверения обучающегося, электронного пропуска работника

e-mail (корпоративная электронная почта НИУ ВШЭ (@hse.ru, @edu.hse.ru))

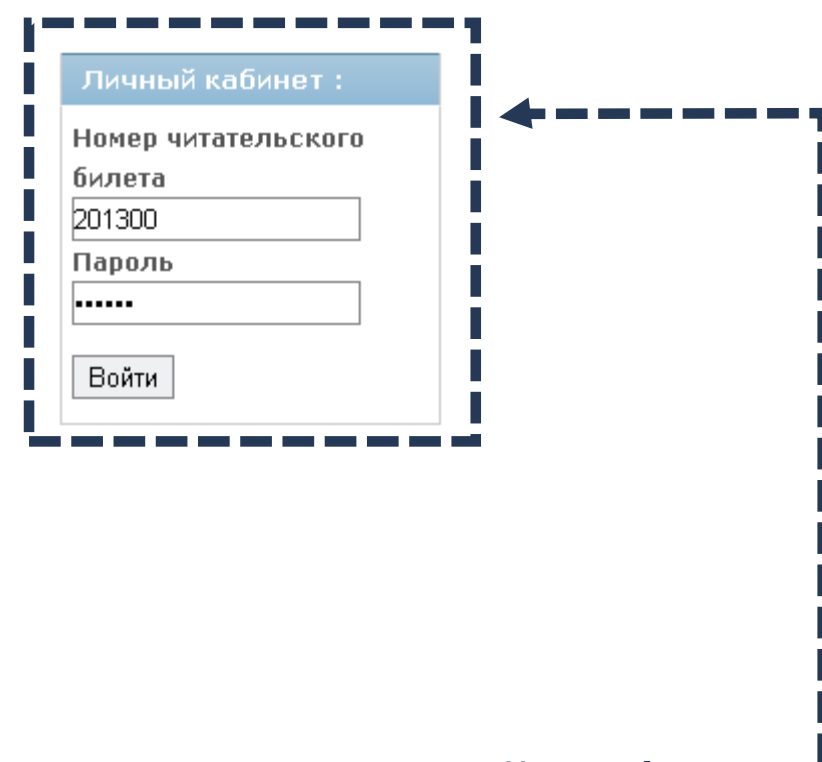
Я ознакомился с Правилами пользования Библиотекой НИУ ВШЭ и обязуюсь их выполнять.



Приложение HSE App X

# КАТАЛОГ ПЕЧАТНЫХ ИЗДАНИЙ БИБЛИОТЕКИ НИУ ВШЭ

Предназначен для поиска и бронирования литературы



Вход в личный кабинет:

Логин: номер читательского билета

Пароль: имя кириллицей на пропуске

Каталог печатных изданий библиотеки НИУ ВШЭ

ang|rus

Поиск :  
[Новые поступления](#)  
[Простой поиск](#)  
[Расширенный поиск](#)

Авторы  
 Издательства  
 Серии  
 Тезаурус (Рубрики)

Электронный каталог  
 Мандельштамовского центра  
[Помощь](#)

Личный кабинет :  
 Номер читательского билета  
 Пароль (имя кириллицей)  
 Войти

Электронный каталог: Поиск

Поиск История поисков

Введите параметры поиска и нажмите кнопку "Искать". При сокращении слова в поисковом запросе ставьте символ \*

Заглавие

И Автор  
 И Издательство  
 И Серия  
 И Рубрика  
 И Язык док-та

Год издания: от: до:

Документы с полным текстом

Фильтр по типу документа:  
 Все типы документов

Фильтр по филиалам:  
 Библиотека ВШЭ

Поиск по всем филиалам Инверс

Искать Очистить

Электронный каталог: Поиск

Поиск История поисков

Уточнить поиск Новый поиск Добавить на полку Печать списка Печать упрощенного списка

Заглавие	Автор	Год	Пол. инд...	Тип документа	Экз.	Заказ
SPSS 19: профессиональный статистический анализ данных	Наследов А.	2011	004 Н314	Книга	60	<a href="#">Заказ</a>
SPSS: Статистический анализ в маркетинговых исследованиях	Таганов Д.	2005	004 Т133	Книга	50	<a href="#">Заказ</a>
Statistica 6. Статистический анализ данных : учеб. пособие для вузов	Халафян А. А.	2007	004 Х-17	Книга	1	
Statistica 6. Статистический анализ данных : учеб. пособие для вузов	Халафян А. А.	2008	004 Х-17	Книга	30	
Вероятностно-статистический анализ максимумов временных рядов с псевдостационарным трендом : автореф. дис. ... канд. физико-мат...	Кудров А. В.	2009	Автореф. ...	Автореферат	1	<a href="#">Заказ</a>
Вероятностно-статистический анализ погрешностей измерений	Видуев Н. Г.	1969	519 В425	Книга	1	
Вопросы образования: Тенденции изменений и детерминанты когнитивных навыков и компетенций: предварительный статистичес...	Брюханов М. В.			Статья		
Вопросы статистики: Заочное высшее образование в России: экономико-статистический анализ	Варшавская Е. Я.			Статья		
Вопросы статистики: Многомерный статистический анализ предпринимательской активности в региональной сфере микробизнеса	Илышев А. М.			Статья		
Вопросы статистики: Многомерный статистический анализ финансовой устойчивости предприятий	Дуброва Т. А.			Статья		
Вопросы статистики: Наука и инновации в условиях кризиса: статистический анализ	Кузнецова И. А.			Статья		
Вопросы статистики: Основные тенденции на первичном рынке жилой недвижимости: экономико-статистический анализ (на при...	Звездина Н. В.			Статья		
Вопросы статистики: Проблема избыточного веса населения России: статистический анализ	Александрова Ю. Д.			Статья		
Вопросы статистики: Статистический анализ влияния индикаторов экономического кризиса на оценку кредитного риска	Малахова Т. А.			Статья		
Вопросы статистики: Статистический анализ и моделирование динамики удовлетворенности жизнью в России: возрастной аспект	Родионова Л. А.			Статья		

Страница 1 из 9

Отображены результаты 1 - 15 из 1

Филиал	Доступно для брони	Доступно для выдачи	Бронирование
Шаболовка 28/11, чит. зал : Shabolovka, Reading hall	-	1	-
Покровский б-р, контр. экз. : Pokrovsky bld., Single copy	-	1	-
Шаболовка 28/11, уч.аб-т : Shabolovka, Study collection lending department	48	48	<a href="#">Заказать</a>

# ЭЛЕКТРОННАЯ ДОСТАВКА ДОКУМЕНТОВ

Оформление заявки на получение доступа к электронной копии документа из печатного фонда Библиотеки

## Копии каких документов могут быть запрошены?

- отдельные статьи из периодических изданий и сборников статей (одна из выпуска);
- отрывки из книги (не более 15% от объема документа).

## Как получить услугу?

- уточнить наличие необходимого документа в электронном каталоге Библиотеки НИУ ВШЭ по адресу <http://opac.hse.ru/absopac/>, скопировать его библиографическое описание для заполнения формы заявки

# ЭЛЕКТРОННАЯ ДОСТАВКА ДОКУМЕНТОВ

## Поиск библиографического описания для заполнения формы заявки

Поиск :  
Новые поступления  
Простой поиск  
Расширенный поиск  
Помощь

Авторы  
Издательства  
Серии  
Тезаурус (Рубрики)

Электронный каталог  
Мандельштамовского центра

Личный кабинет :  
Просмотр карточки  
Выход

Электронный каталог: Поиск

Поиск История поисков

Уточнить поиск Новый поиск Добавить на полку Печать списка Печать упрощенного списка

Заглавие	Автор
<input type="checkbox"/> Англо-русские термины: гражданское право, гражданско-процессуальное право	Оськина С. Д.
<input type="checkbox"/> Государство как акционер : гражданское право	Пышкин И. И.
<input type="checkbox"/> Гражданское и торговое право : учеб. пособие	Богатых Е. А.
<input type="checkbox"/> Гражданское и торговое право зарубежных стран : учеб. пособие	Пилаева В. В.
<input type="checkbox"/> Гражданское и торговое право зарубежных стран : учеб. пособие для вузов	Безбах В. В.
<input type="checkbox"/> Гражданское и торговое право зарубежных стран : учебник и практикум для бакалавриата и магистратуры	Зенин И. А.
<input type="checkbox"/> Гражданское исполнительное право : учебник	Власов А. А.
<input type="checkbox"/> Гражданское обычное право Франции в историческом его развитии	Карасевич П. П.
<input type="checkbox"/> Гражданское право : англо-русский словарь	Соколова Н. В.
<input checked="" type="checkbox"/> Гражданское право : для бакалавров и специалистов	Мардалиев Р. Т.
<input type="checkbox"/> Гражданское право : конспект ответа на экзамене	Эрделевский А. М.
<input type="checkbox"/> Гражданское право : принципы и нормы: учеб. пособие	Бородянский В. И.
<input type="checkbox"/> Гражданское право : учеб. пособие	Протас Е. В.
<input type="checkbox"/> Гражданское право : учеб. пособие для ссузов	Сендюкаева Н. Х.
<input type="checkbox"/> Гражданское право : учебник	Бойков О. В.

Страница 1 из 6

Краткая информация Библиографическое описание Эскизы Связанные описания Горизонтальные связи

Книга  
34 М255

**Мардалиев, Р. Т.**  
Гражданское право: для бакалавров и специалистов / Р. Т. Мардалиев. – СПб.: Питер, 2011. – 246 с. – (Сер. "Учебное пособие") . - ISBN 978-5-423-70231-1.

общий = Гражданское право. Общее право : общие положения  
общий = Гражданское право. Общее право : обязательственное право

### Заявка на получение доступа к электронным копиям документов из печатных фондов Библиотеки НИУ ВШЭ.

Фамилия Имя Отчество

Номер читательского билета

e-mail (корпоративная электронная почта НИУ ВШЭ (@hse.ru, @edu.hse.ru))

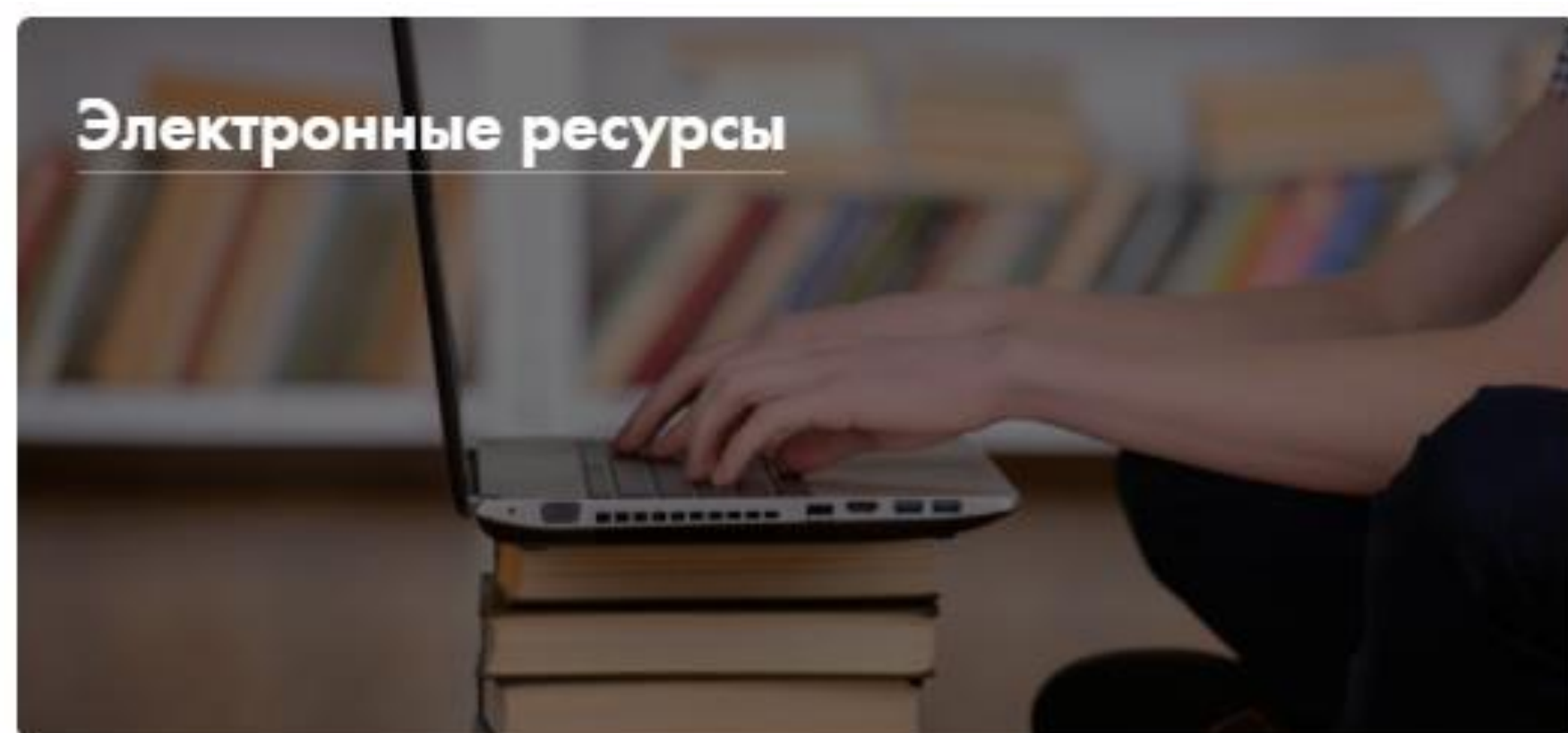
Библиографическое описание документа из электронного каталога Библиотек.

Страницы

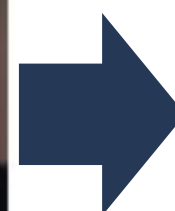
Я ознакомился и обязуюсь выполнять [«Порядок предоставления доступа к электронным копиям документов из печатных фондов Библиотеки НИУ ВШЭ»](#)

# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Доступ к электронным ресурсам



<https://library.hse.ru/e-resources>



**Регистрация для удаленного использования электронной подписки НИУ ВШЭ**

[English version](#)

Уважаемый пользователь электронных ресурсов НИУ ВШЭ!

Вы заполняете регистрационную форму, чтобы получить логин и пароль для удаленного использования электронной подписки. Укажите, пожалуйста, сведения о себе (**все поля являются обязательными**):

Фамилия	<input type="text"/>
Имя	<input type="text"/>
Отчество	<input type="text"/>
Факультет/подразделение	<input type="text"/>
Должность/курс	<input type="text"/>
Номер читательского билета	<input type="text"/>
e-mail*	<input type="text"/>

[Как получить читательский билет](#)

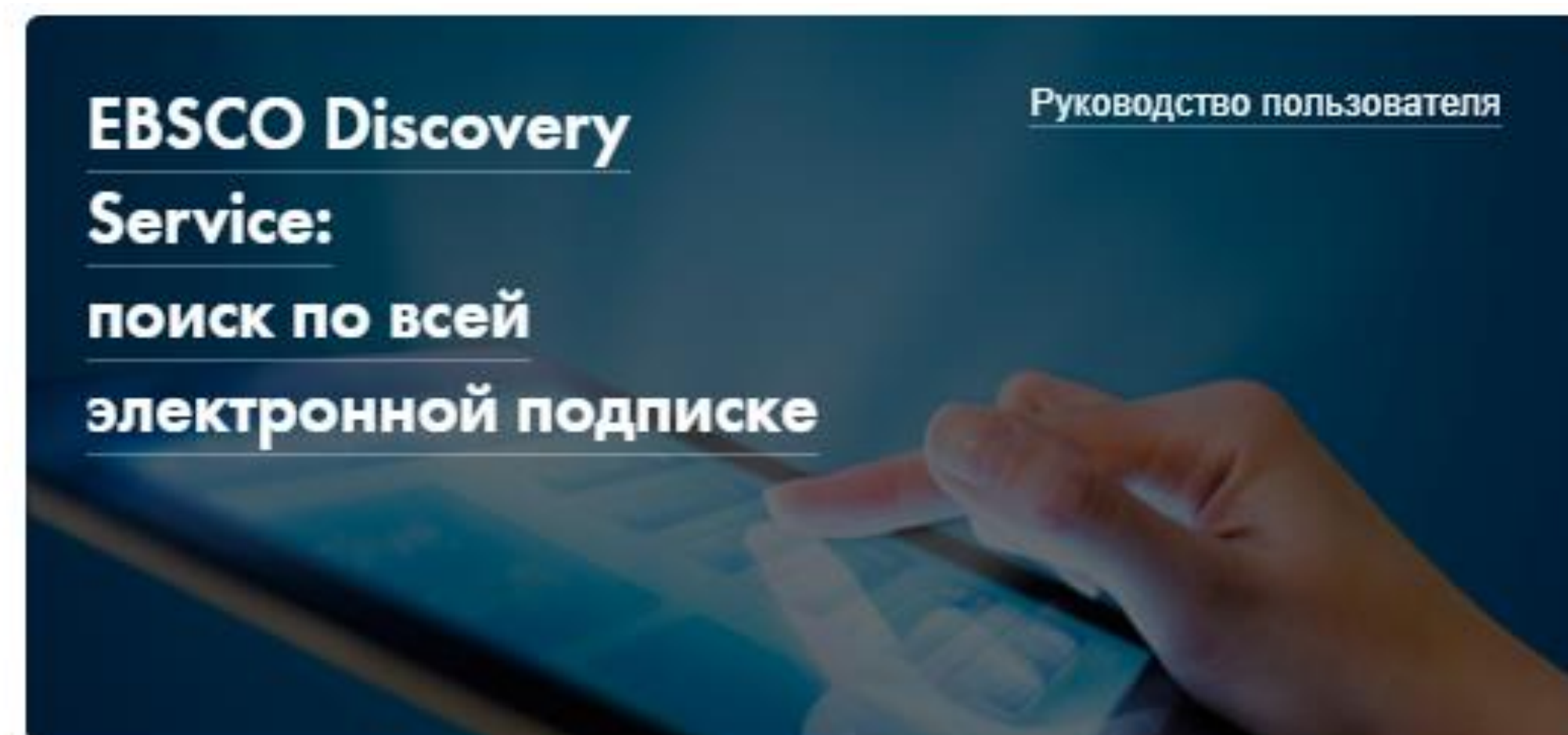
\*Рекомендуем указывать e-mail студенческой почты или сотрудника ВШЭ

Порядок получения удаленного доступа <https://elib.hse.ru/e-resources/ez/ezregulation.htm>

Доступ к данным осуществляется через сайт Библиотеки в режиме онлайн по IP-адресам прокси-серверов, используемых НИУ ВШЭ и его региональных филиалах в гг. Санкт-Петербурге, Нижнем Новгороде и Перми, а также с возможностью удаленного доступа через авторизацию (логин/пароль) из любой точки, имеющей доступ к сети Интернет

# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Работа с подпиской Библиотеки







# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Специфика академических электронных ресурсов

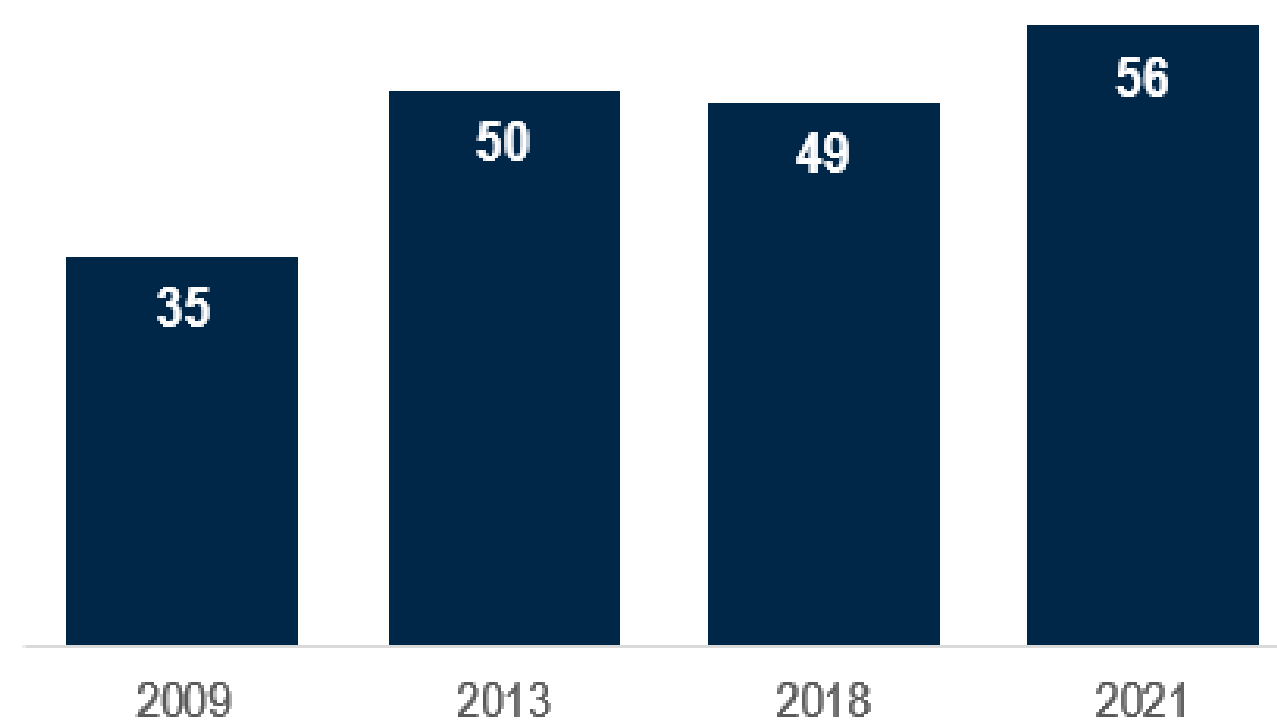
- Неанонимность.
- Структурированность.
- Постоянство (долговременность хранения).
- Оперативная и полная индексация, с возможностью полнотекстового поиска по всему информационному массиву.

Читайте подробнее: Alexander J. Gates, Qing Ke (2019). Nature's reach: narrow work has broad impact. Nature 575, 32-34 (2019).

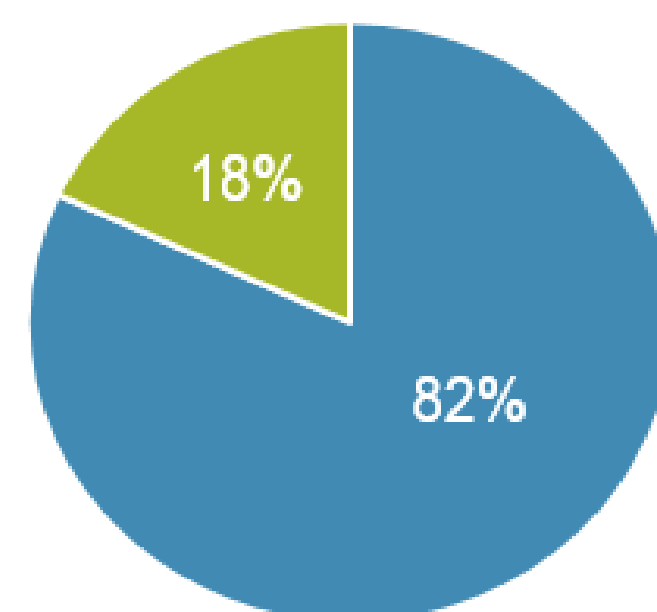
<https://doi.org/10.1038/d41586-019-03308-7>

# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Количество доступных по подписке платформ электронных ресурсов, ед.



Электронная подписка в разрезе национальных платформ



■ Ведущие платформы зарубежных ресурсов ■ Российские ресурсы

Составляющие электронной подписки Библиотеки

- Полнотекстовые зарубежные базы данных
- Полнотекстовые отечественные базы данных
- Реферативные базы и базы данных цитирования
- Специализированные базы данных
- Энциклопедии, словари и справочники
- Инструменты для работы с подпиской как единым информационным массивом

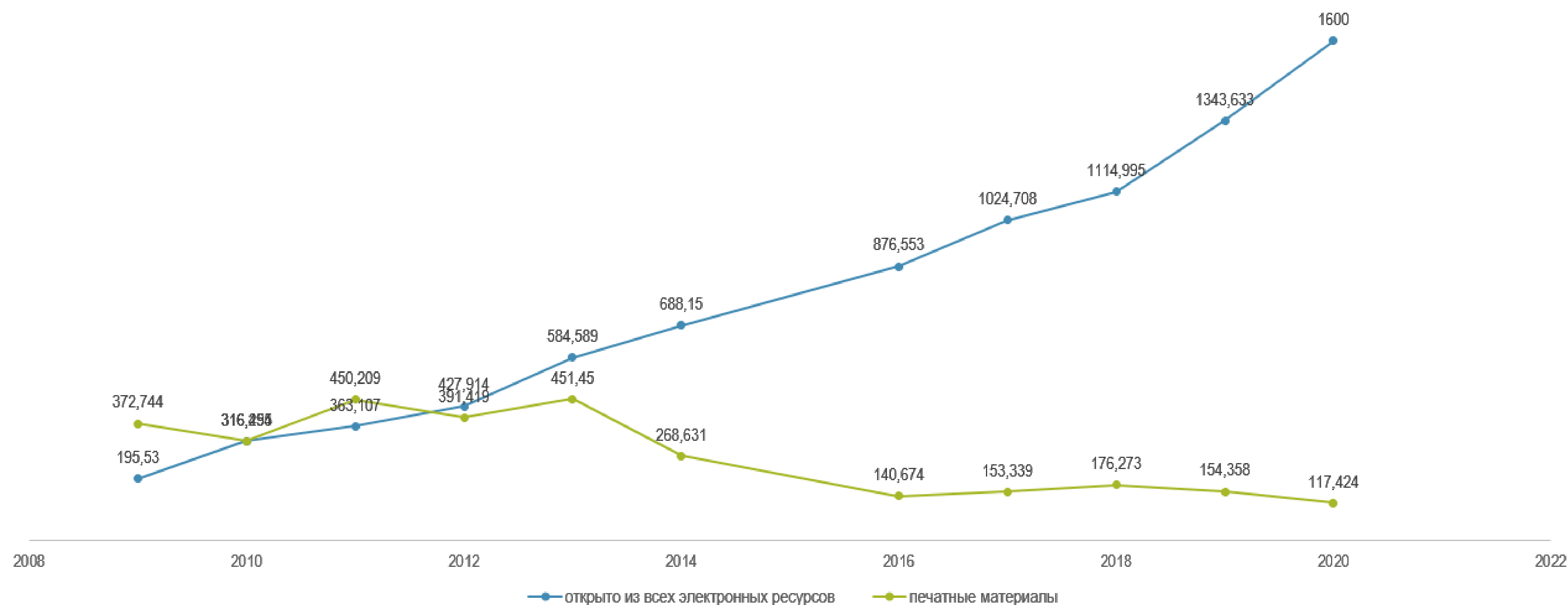
Подписка соответствует и превосходит мировые стандарты, есть ресурсы, которых нет в Гарвардском университете.

Абсолютно все ресурсы доступны во всех региональных кампусах ВШЭ.

Все объединены единым поисковым интерфейсом — «дискавери-системой».

# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Использование электронных и печатных документов, тыс.



# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Статистика использования электронных ресурсов за 2020 год

**1,6 млн**

статей было открыто

**30 статей**

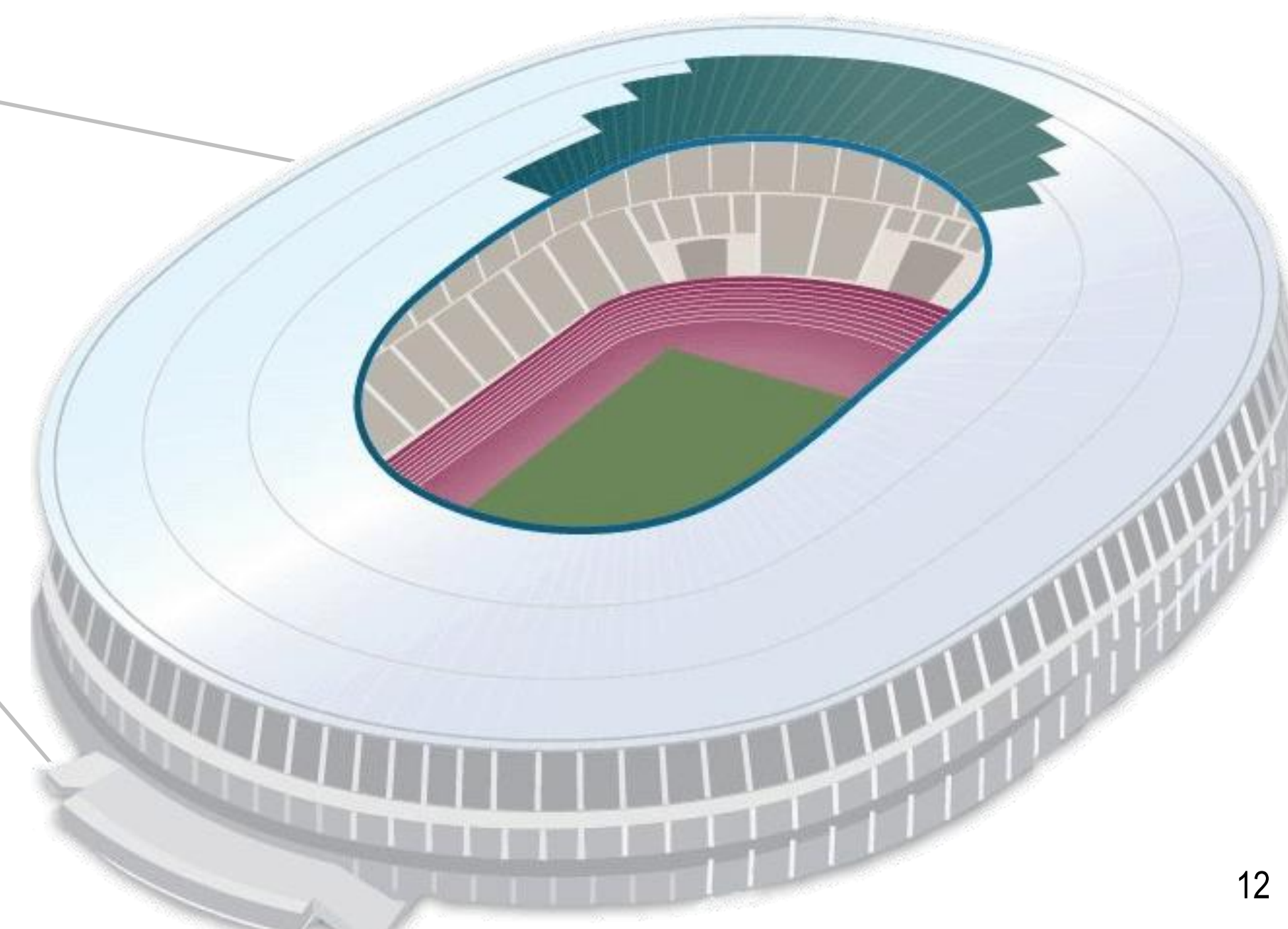
каждый открыл в ВШЭ

на **19 %** увеличился рост

использования электронных ресурсов



Олимпийский стадион, Токио



Читайте подробнее: статистика использования электронных ресурсов за 2020 год.

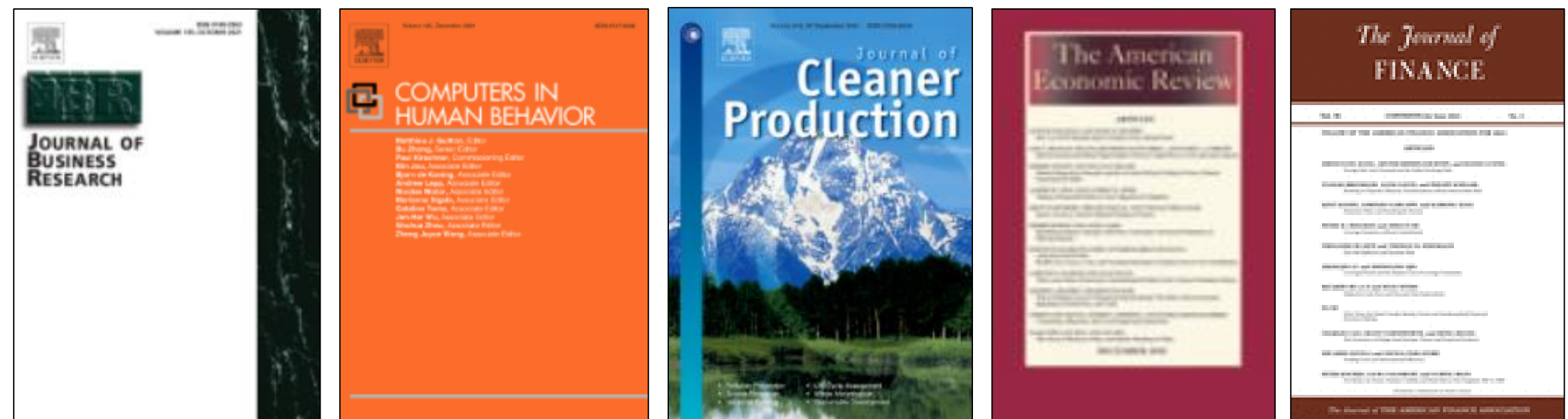
<https://library.hse.ru/stat2020>

# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Статистика использования электронных ресурсов за 2020 год

## Самые читаемые журналы:

1. Journal of Business Research (9839 статей)
2. Computer in Human Behavior (7668 статей)
3. Journal of Cleaner Production (7539 статей)
4. American Economic Review (5676 статей)
5. Journal of Finance (5462 статьи)



Science Direct

American Economic Association

Wiley



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**Introduction: On the Role of Treaties in the Development of International Law**

Treaties form the basis of modern international law. They serve to satisfy a fundamental need of States to regulate by consent issues of common concern, and thus to bring stability into their mutual relations. As an instrument for ensuring stability, reliability and order in international relations, treaties are one of the most important elements of international peace and security. This is why, from the earliest days in the history of international law, treaties have always been the primary source of legal relations between entities today known as States.<sup>1</sup> The Preamble of the VCLT itself emphasizes the fundamental role of treaties in the history of international relations and especially the importance of treaties for developing peaceful co-operation among nations. This fundamental importance of treaties proved to be a continuum, while the rules and procedures of treaty making, as well as the content of international agreements, changed through the centuries.

The history of international treaties is as long as the history of organized human co-existence. The first treaties known to us probably those concluded by the rulers of the Hittite empire with their neighbours and vassals in the fourteenth century BC,<sup>2</sup> followed by Hittite treaties with Ramess II, King of Egypt, around 1280-1270 BC.<sup>3</sup> The oldest international treaty preserved in full text is a friendship and commerce agreement between the King of Elam and Babylonia concluded in the middle of the third century BC, which was found in the archive of the palace of Elam.<sup>4</sup>

The medieval world had neither States nor a State system in the modern sense of these terms, but due to its numerous sovereigns, a remarkable number of international treaties were concluded. During the early Middle Ages, treaties of a legal nature were not only concluded between more or less independent princes and noblemen, but also between all kinds of authorities of different ranks and legal positions.<sup>5</sup> Only the church was able to act as a supra personal, institutional treaty party. A treaty engagement was usually considered to be a personal obligation between the contracting parties, which is why an international treaty was, as a rule, not the tradition in the law. Roman era, in most cases concluded orally and confirmed as a ceremony by oath.

<sup>1</sup> V. Topik, The Chemical Legal Structure of International Treaties as an Aspect of an Emerging Global Governance Architecture (1999) 47 OYB 26, 30.  
<sup>2</sup> See H. G. Seeley, The Hittite Empire (1903) 113.  
<sup>3</sup> See H. G. Seeley, The Hittite Empire (1903) 113.  
<sup>4</sup> See H. G. Seeley, The Hittite Empire (1903) 113.  
<sup>5</sup> See H. G. Seeley, The Hittite Empire (1903) 113.

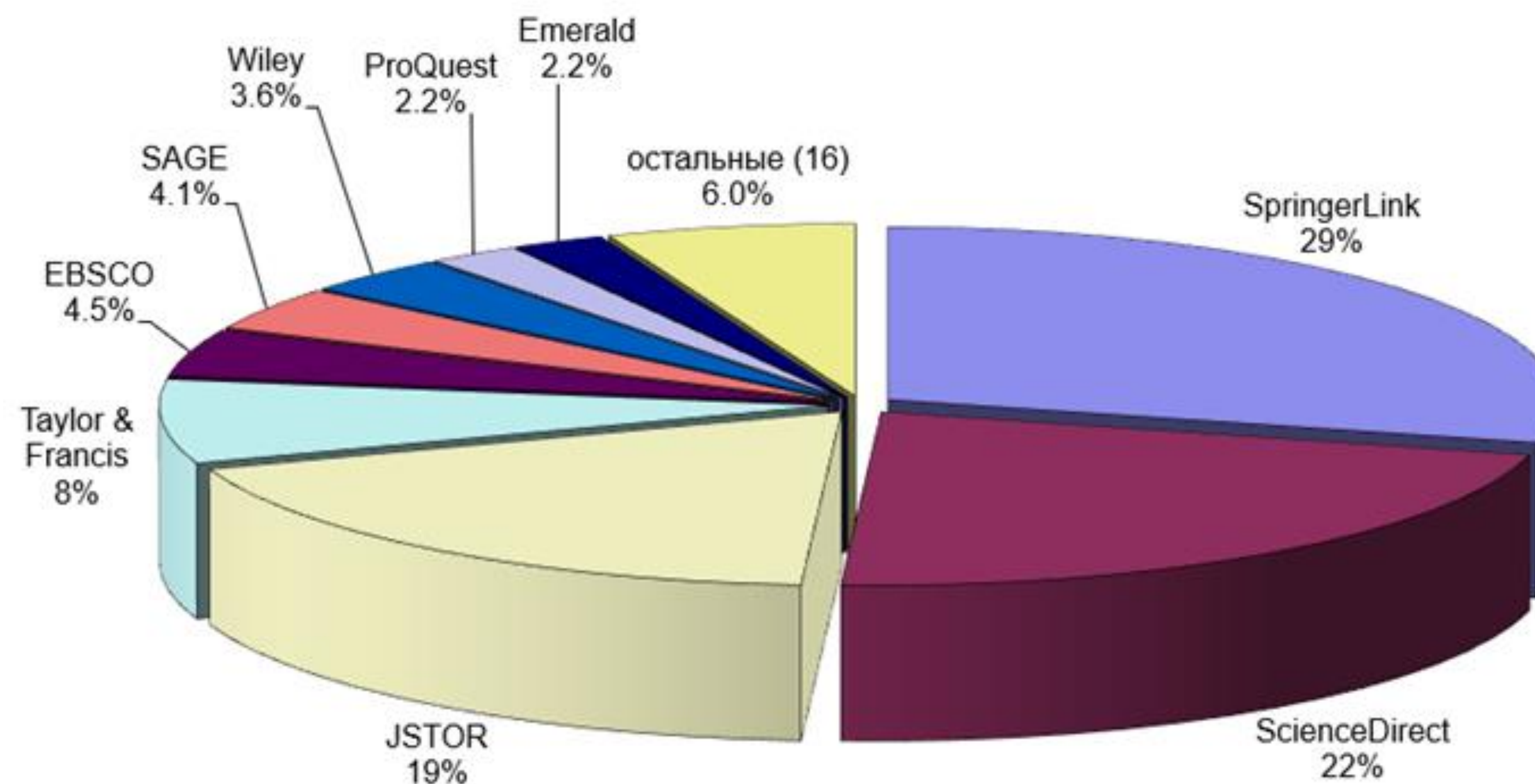
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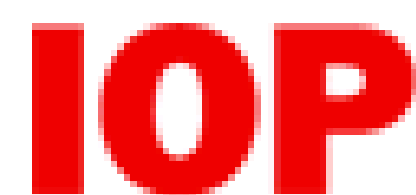
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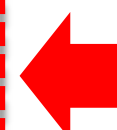


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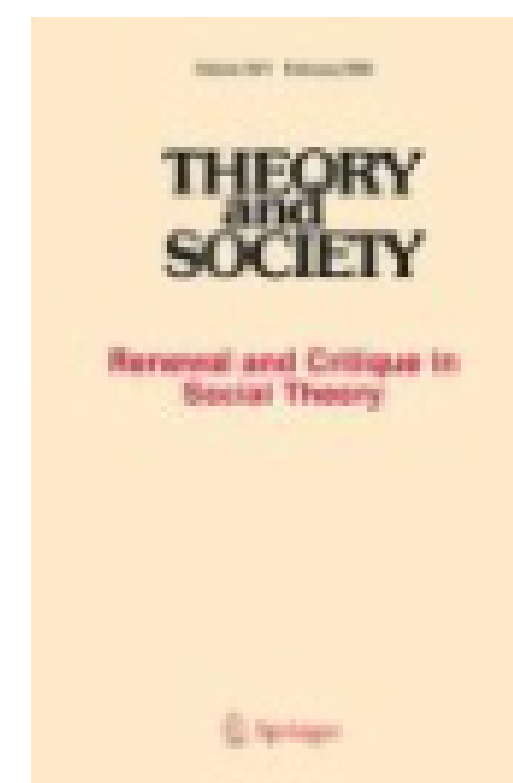
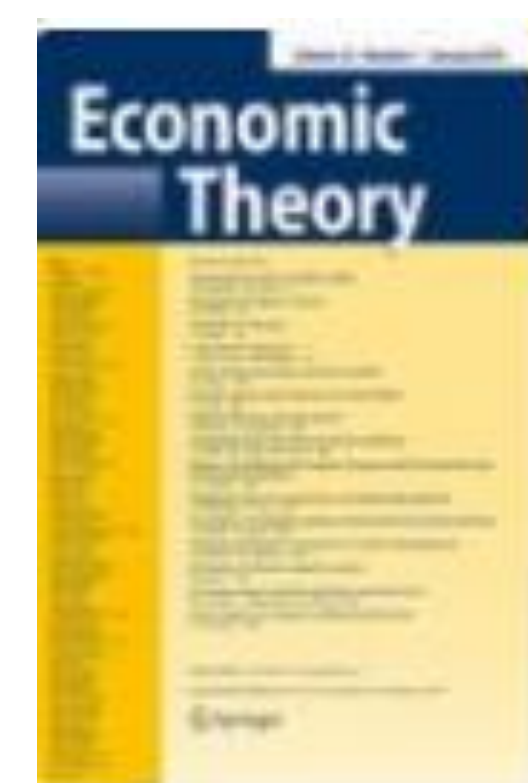
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## Multidimensional inequalities and generalized quantile functions

Sinem Bas, Philippe Bich & Alain Chateauneuf

*Economic Theory* 71, 375–409(2021) | [Cite this article](#)

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### Abstract

In this paper, we extend the generalized Yaari's dual theory for multidimensional distributions, in the vein of Galichon and Henry's paper (Galichon and Henry in *J Econ Theory* 147:1501–1516, 2012). We show how a class of generalized quantiles—which encompasses Galichon and Henry's one or multivariate quantile transform [see Arjas and Lehtonen (*Math Oper Res* 3(3):205–223, 1978), O'Brien (*Ann Probab* 3(1):80–88, 1975) or Ruschendorf (*Ann Probab* 9(2):276–283, 1981)]—allows to derive a general representation theorem.

### Introduction

In a recent paper, Galichon and Henry (2012) generalize Yaari's dual theory Yaari (1987) to multidimensional distributions using optimal coupling theory.<sup>1</sup> They prove that the preference relationship of a decision maker confronted with choices on multidimensional prospects can be evaluated with a weighted sum of multidimensional quantiles, if one assumes that this

*Economic Theory* (2021) 71:375–409  
<https://doi.org/10.1007/s00199-020-01253-5>

RESEARCH ARTICLE

### Multidimensional inequalities and generalized quantile functions

Sinem Bas<sup>1</sup> · Philippe Bich<sup>2</sup> · Alain Chateauneuf<sup>3</sup>

Received: 19 April 2019 / Accepted: 8 February 2020 / Published online: 3 March 2020  
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#### Abstract

In this paper, we extend the generalized Yaari's dual theory for multidimensional distributions, in the vein of Galichon and Henry's paper (Galichon and Henry in *J Econ Theory* 147:1501–1516, 2012). We show how a class of generalized quantiles—which encompasses Galichon and Henry's one or multivariate quantile transform [see Arjas and Lehtonen (*Math Oper Res* 3(3):205–223, 1978), O'Brien (*Ann Probab* 3(1):80–88, 1975) or Ruschendorf (*Ann Probab* 9(2):276–283, 1981)]—allows to derive a general representation theorem.

**Keywords** Multidimensional distributions · Quantile · Inequality · Optimal coupling

**JEL Classification** D63 · D81

This paper forms part of the research project ANR "Mesure des inégalités ordinales et multidimensionnelles" ORDINEQ of the French National Agency for Research, whose financial support is gratefully acknowledged.

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### A multi-motivational general model of entrepreneurial intention

Evan J. Douglas <sup>a, b, c, d</sup>, Dean A. Shepherd <sup>c</sup>, Vidhula Venugopal <sup>d</sup>

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#### Abstract

We develop and test an overarching model of entrepreneurial intention that includes profit, social impact, and innovation as the three main drivers of

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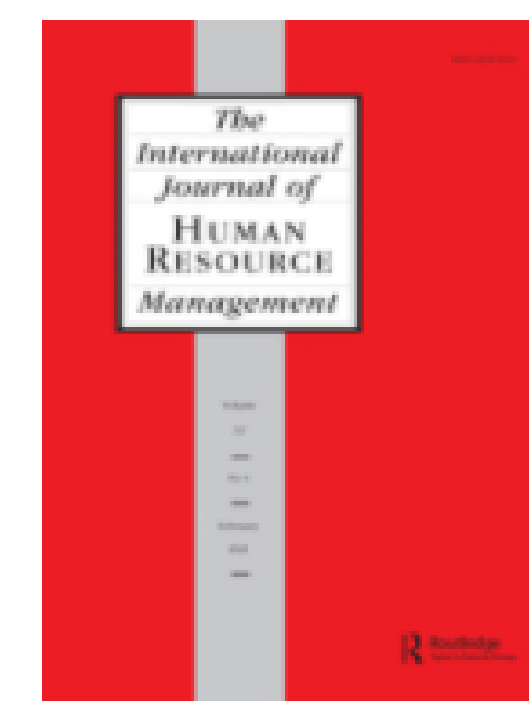
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Krzysztof Mieszkowski & Javier Barbero

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### ABSTRACT

This paper identifies territorial patterns of location of R&D+I grants supporting projects within the Polish Smart Specialisation framework. Using a data set of R&D+I grants from the European Structural and Investment Funds (ESIFs), the paper analyses the geographical concentration of projects, the link between local characteristics and the implementation of projects, and attempts at cooperation among organizations implementing projects. The results show an urban-rural divide and confirm the agglomeration of projects around the main Polish cities and industrial locations. By contrast, less-than-adequate conditions in rural areas and smaller counties may limit the potential for attraction and implementation of Smart Specialisation Strategies (S3).

**KEYWORDS:** Smart Specialisation, territorial development, place-based policy, research and innovation policy

**QJEL:** O25 O30 R12 R58

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### Territorial patterns of R&D+I grants supporting Smart Specialisation projects funded from the ESIF in Poland

Krzysztof Mieszkowski<sup>a</sup> and Javier Barbero<sup>b</sup>

**ABSTRACT**  
This paper identifies territorial patterns of location of R&D+I grants supporting projects within the Polish Smart Specialisation framework. Using a data set of R&D+I grants from the European Structural and Investment Funds (ESIFs), the paper analyses the geographical concentration of projects, the link between local characteristics and the implementation of projects, and attempts at cooperation among organizations implementing projects. The results show an urban-rural divide and confirm the agglomeration of projects around the main Polish cities and industrial locations. By contrast, less-than-adequate conditions in rural areas and smaller counties may limit the potential for attraction and implementation of Smart Specialisation Strategies (S3).

**KEYWORDS**  
Smart Specialisation; territorial development; place-based policy; research and innovation policy

**JEL** O25, O30, R12, R58  
**HISTORY** Received 30 May 2019; in revised form 9 June 2020

**INTRODUCTION**

Smart Specialisation Strategies (S3) is a place-based policy approach that asks regions or countries to define the main strategic domains for research and innovation investments (Foray et al., 2012). S3 is supposed to guide investments in innovation through the prioritization and concentration of public resources, and the mobilization of local assets and entrepreneurial capacity. European Commission regional policy grounded in the place-based approach made available the largest pan-European industrial policy funding programme to apply those principles (Gianelle et al., 2019). This paper identifies territorial patterns of location and territorial cooperation aspects of research and development plus innovation (R&D+I) grant-supported projects from the European Regional Development Fund (ERDF) under Thematic Objective 1 (TO1) within the Polish Smart Specialisation framework. We focus on three aspects. First, we explore whether there is a territorial concentration of projects. Second, we focus on evidence of a link between local characteristics and the implementation of projects. Finally, we identify if attempts have been made regarding territorial cooperation in these projects.

Our research contributes to the literature on agglomeration economies and the literature discussing the conditions for attracting R&D+I activities. Cities and urban areas allow the sharing of common goods and facilities among firms, improve the quality of matching in the labour market between employers and employees, and facilitate the generation, diffusion and accumulation of knowledge (Duranton & Puga, 2004). Urban areas have more research and innovative activities because large metropolises have proportionally more inventors than smaller cities and generate more patents (Bettencourt et al., 2007). More developed areas have skilled human capital, better technological infrastructure and ample physical capital. Furthermore, they concentrate on public organizations and private firms benefiting from co-location, agglomeration and the localized circulation of knowledge. These economic centres are more suitable for innovative activity. The agglomeration of actors is associated with the emergence of 'intricate institutional systems' that support the diffusion and exchange of knowledge, collaboration and interactions that are fundamental to the processes of innovation. Rural, remote or peripheral areas are often less

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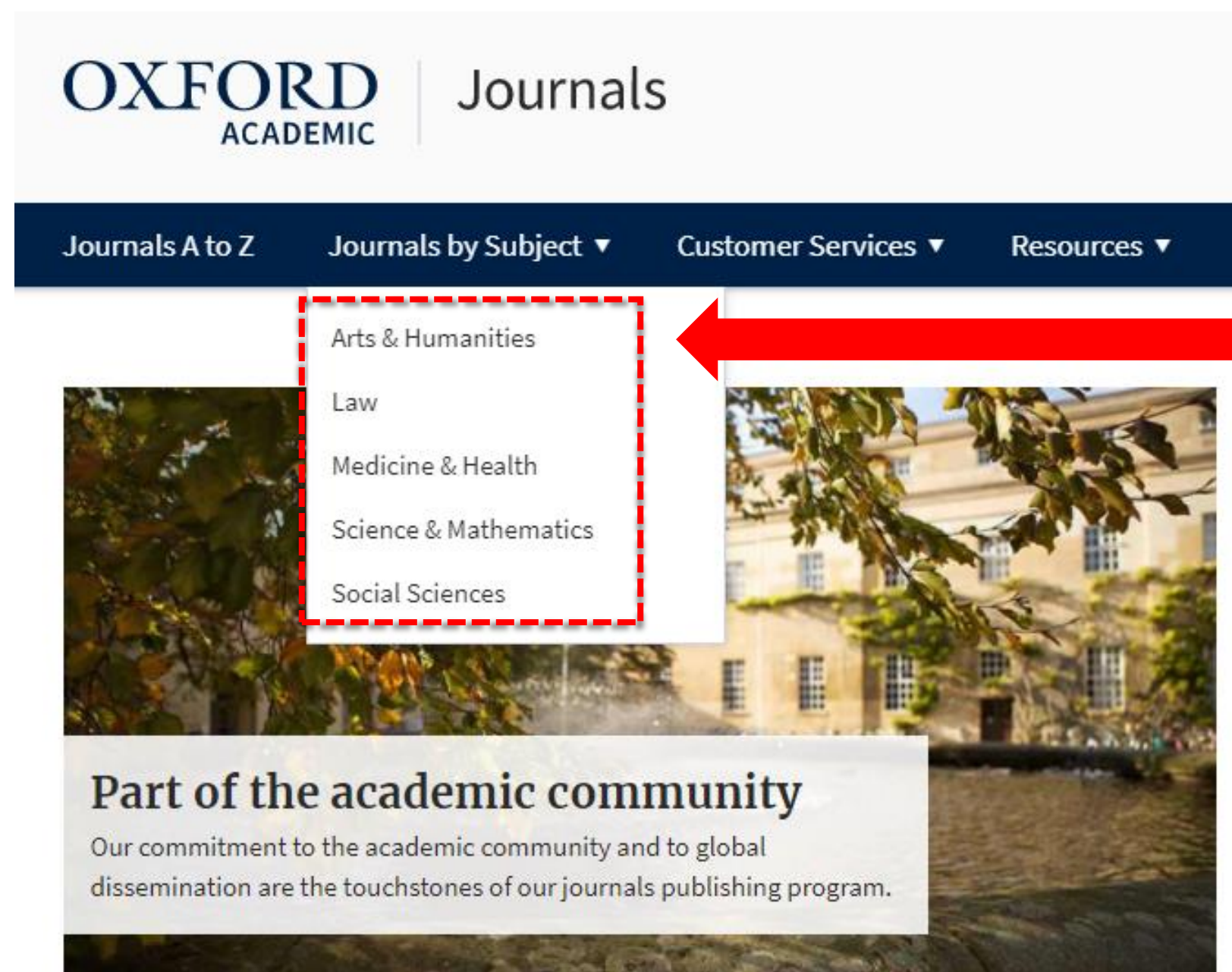
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### The Role of Emotion Discourse and Pathic Stigma in the Delegitimization of Consumer Practices <sup>FREE</sup>

Carmen Valor ✉, Javier Lloveras, Eleni Papaioikonomou

*Journal of Consumer Research*, Volume 47, Issue 5, February 2021, Pages 636–653,  
<https://doi.org/10.1093/jcr/ucaa028>

**Published:** 25 June 2020

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#### Abstract

Drawing on institutional theory and discursive psychology, this article elucidates how actors use emotion discourse to undermine the legitimacy of consumer practices. Based on an empirical investigation of the bullfighting controversy in Spain, our work shows how activists engage in the production and circulation of compelling emotional prototypes of their adversaries. Such emotional prototypes constitute the discursive foundations of a pathic stigma, which, once established, taints the identity of the social groups associated with

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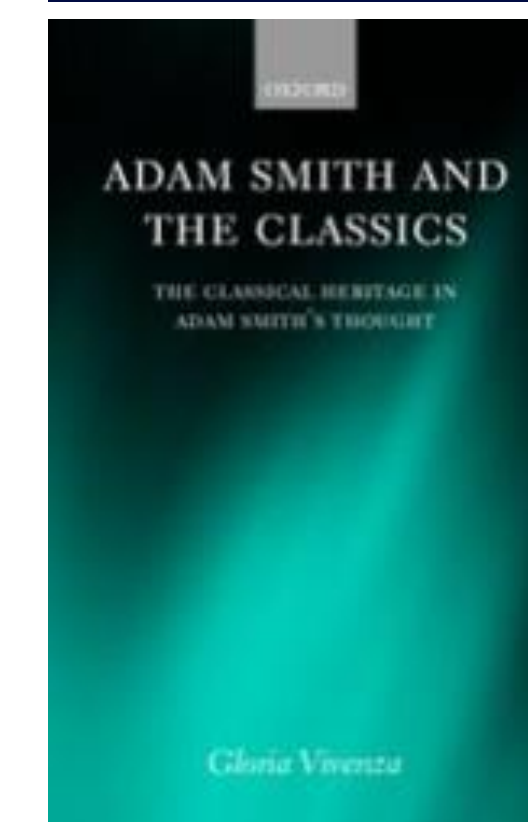
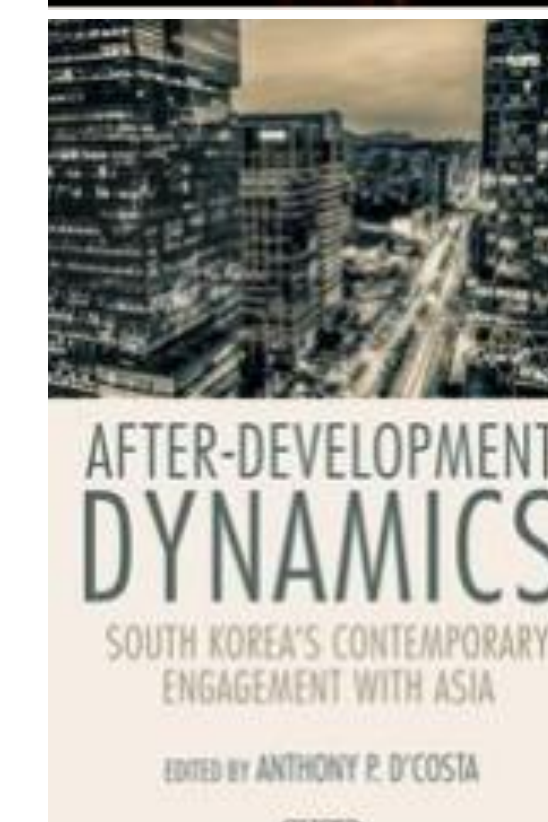
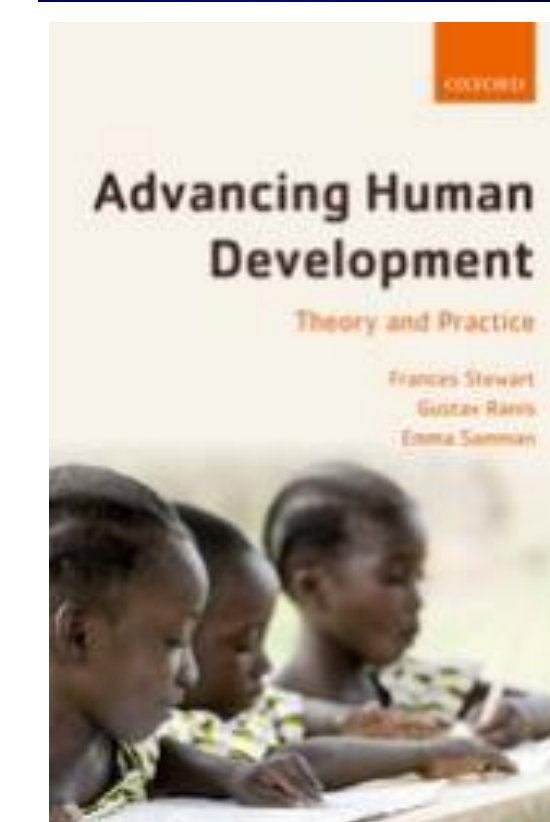
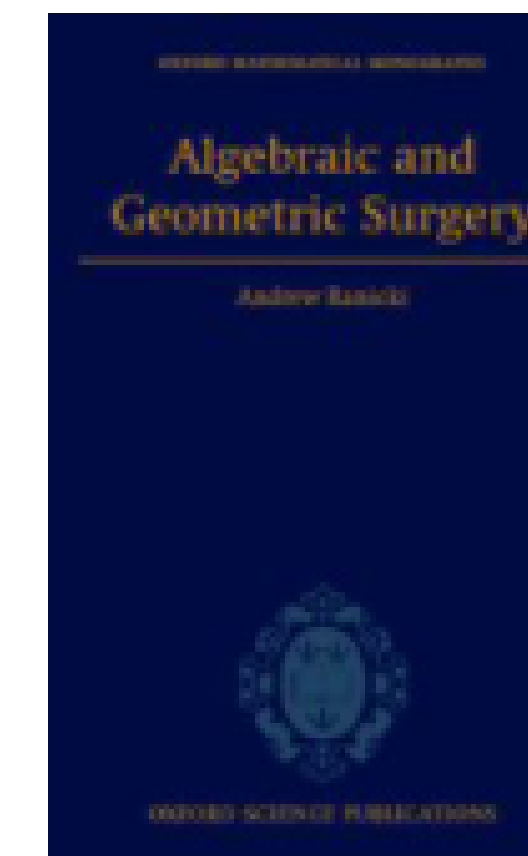
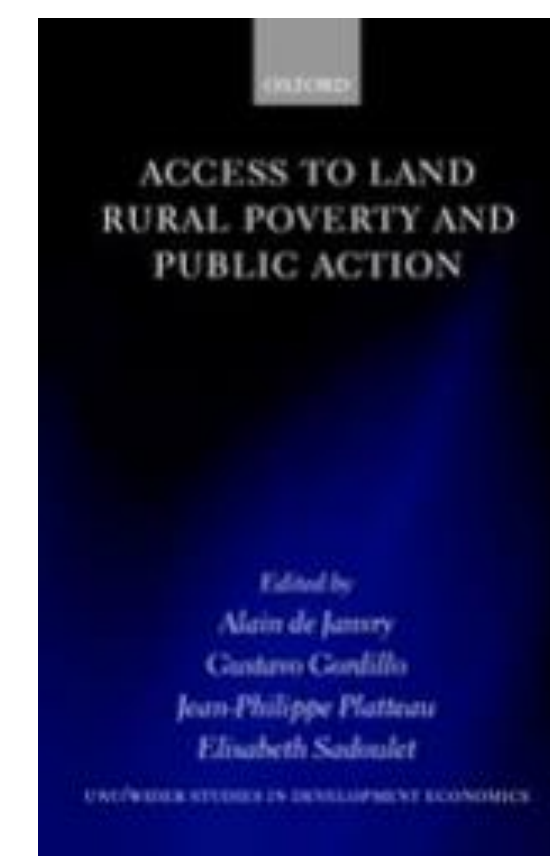
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**Adam Smith and the Classics: The Classical Heritage in Adam Smith's Thought**  
Gloria Vivenza

**ABSTRACT**  
Adam Smith's thought was indebted to the classical training prevailing in the educational system of his day. A careful reading of all his writings can prove the extent of this debt. Classical influences are obviously more numerous and easily discernible in the philosophical works, but are not absent from the economic masterpiece. They have been described by the author without having recourse to conjectures or implications, rather by analysing the topics whose classical origin can be ascertained. The book has been divided into chapters devoted to the traditional branches of knowledge treated by ... [More](#) ▾

**Keywords:** astronomy, economics, education, ethics, jurisprudence, literature, philosophy, rhetoric, Adam Smith, value

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Gloria Vivenza, *author*  
University of Verona  
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The Natural Philosophy in Smith's Essays  
Gloria Vivenza (Contributor Webpage)  
DOI:10.1093/0198296665.003.0002

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[–] Abstract and Keywords

Deals with Adam Smith's juvenile essays on natural philosophy, and shows that some of Smith's methodological principles were partially grounded on ancient theories.

The content of the chapter analyses both Smith's historical reconstruction of the ancient doctrines, and the classical heritage in his own scientific and methodological approach.

**Keywords:** appearances, astronomy, connection, hypotheses, metaphysics, method, nature, physics, system, wonder

1.1. 'The History of Astronomy'  
Philosophy covers a vast area, subdivided into many compartments, and these have not maintained their composition unaltered over the centuries. One need only think of the great uncertainty which obscured the boundaries separating 'philosophy', 'natural philosophy', and 'science' in the period that interests us, and the almost interchangeable uses that were made of these terms. The simple fact that Newton entitled his great work *Philosophiæ naturalis principia mathematica* emphasizes, as Wightman has pointed out,<sup>1</sup> that what we think of as a scientific subject today, in the aftermath of Kant's distinction between the two disciplines, was then regarded as a component of philosophy. Relevant to this question is a group of three essays composed by Smith with the chief aim, explicit in their titles, of using the history of certain areas of study (astronomy, physics, logic and metaphysics) to reveal the principles that direct philosophical enquiry—taking 'philosophical' in the sense already indicated. To be precise, it is only in the first of these essays, 'The History of Astronomy',<sup>2</sup> in an introductory section,<sup>3</sup> that Smith sets out the guiding principles of philosophical/scientific enquiry. Various scholars have accordingly looked at this work precisely in order to extract from it the basic outlines of Smith's philosophy.<sup>4</sup> Nor is this only of methodological interest: the essay on astronomy is distinguished from the other two in that it offers the fullest treatment of its subject,<sup>5</sup> and is, furthermore, not limited in chronological terms.<sup>6</sup>

(p.10) As has often been pointed out, Smith made mention of this essay in a letter to his friend David Hume, who would have been his literary executor, with the duty to dispose of his manuscripts, had he survived. Smith describes the essay as 'a fragment of a great work', one of his youthful projects, and leaves the question of whether to publish it or not up to his friend—though for his own part he strikes a note of caution, saying: 'I begin to suspect myself that there is more refinement than solidity in some parts of it'.<sup>7</sup> Despite this observation, however, this was the only one of the essays saved from destruction just before Smith's death that he names, not without a certain sense of appreciation.

**BIBLIOGRAPHIC INFORMATION**

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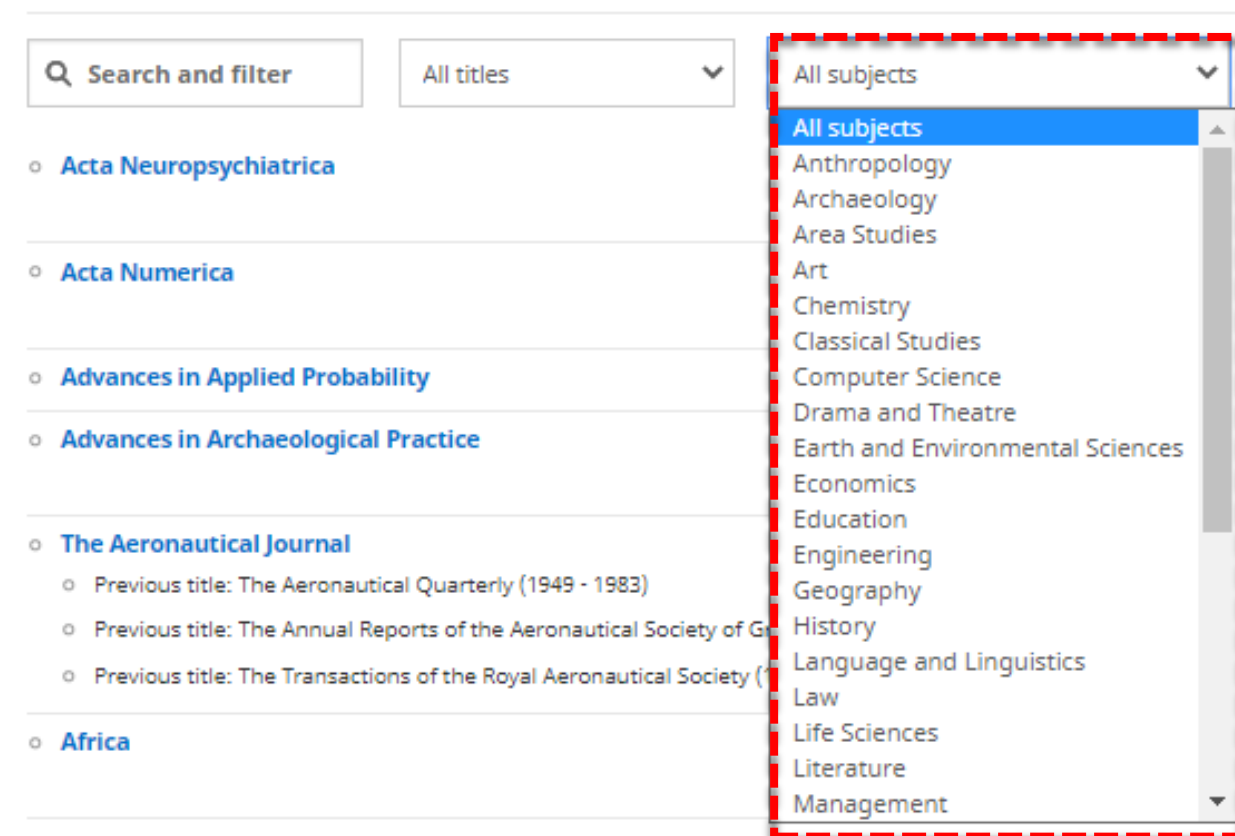
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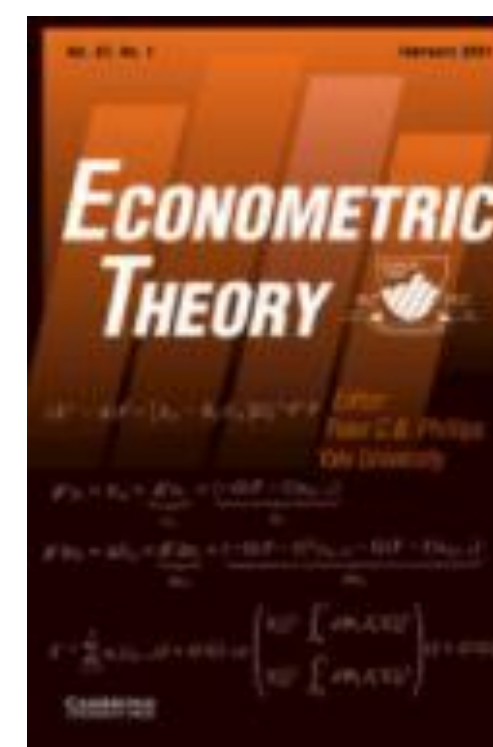
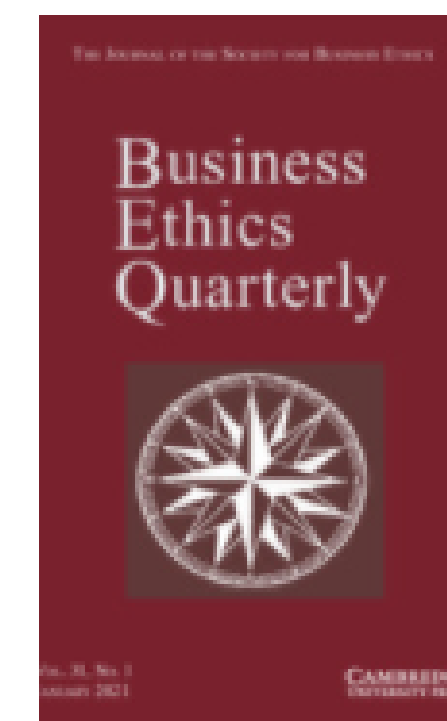
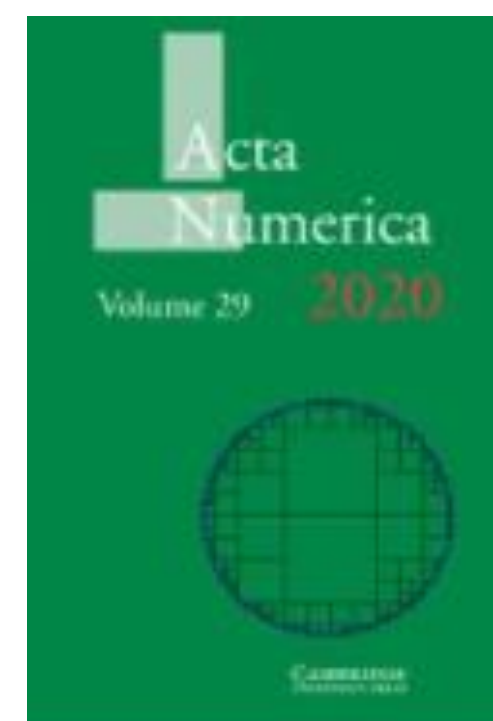
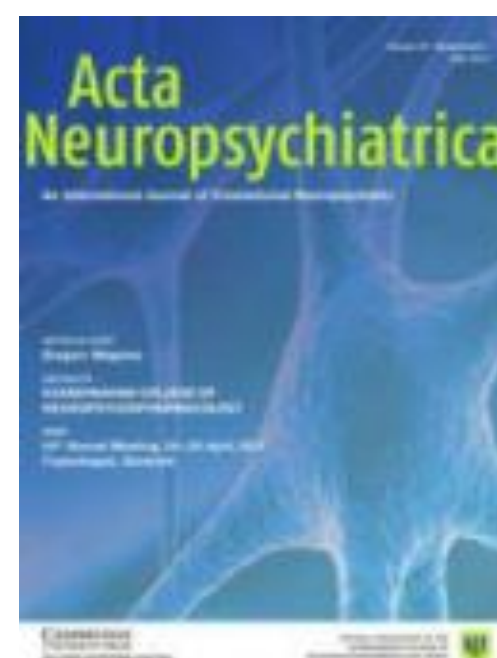
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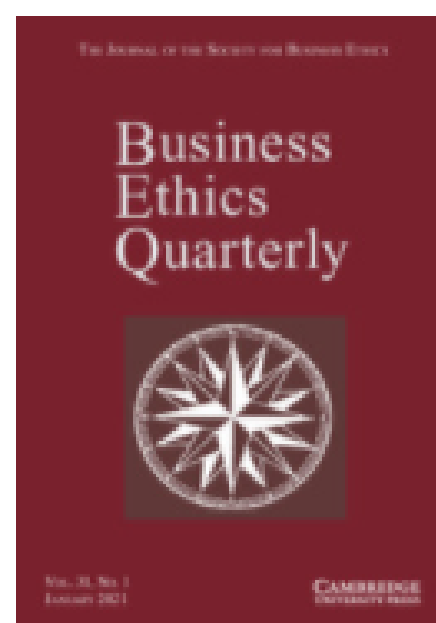


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**Creating Value by Sharing Values: Managing Stakeholder Value Conflict in the Face of Pluralism through Discursive Justification**

Maximilian J. L. Schormair  
Trinity College Dublin

Dirk Ulrich Gilbert  
University of Hamburg

**ABSTRACT:** The question of how to engage with stakeholders in situations of value conflict to create value that includes a plurality of conflicting stakeholder value perspectives represents one of the crucial current challenges of stakeholder engagement as well as of value creation stakeholder theory. To address this challenge, we conceptualize a discursive sharing process between affected stakeholders that is oriented toward discursive justification involving multiple procedural steps. This sharing process provides procedural guidance for firms and stakeholders to create pluralistic stakeholder value through the discursive accommodation of diverging stakeholder value perspectives. The outcomes of such a discursive value-sharing process range from stakeholder value dissensus to low (agreement to disagree) and increasing levels of stakeholder value congruence (value compromise) to stakeholder value consensus (shared values). Hence, this article contributes to the emerging literature on integrative stakeholder engagement by conceptualizing a procedural framework that is neither overly oriented towards dissensus nor consensus.

**KEY WORDS:** stakeholder value conflict, value pluralism, stakeholder engagement, discursive justification, sharing

The (neo)classical idea that, by focusing exclusively on the creation of financial value, corporations automatically provide sufficient value for stakeholders and society as a whole has recently come under closer scrutiny (Jones et al., 2016; Jones & Felps, 2013a). Porter and Kramer, for example, propose a more practitioner-oriented variation of financial value creation as corporate objective by suggesting that corporations should “pursue financial success in a way that also yields societal benefits” (Kramer & Pfitzer, 2016: 82). Jones and Felps, in turn, argue for a revision of the normative objective of corporations around the enhancement of the “aggregate happiness of its normatively legitimate stakeholders over the foreseeable future” (2013b: 358). These monistic conceptions have been criticized for being one-dimensional and reductionist by scholars advocating value pluralism instead of monism in value creation stakeholder theory (VCST) (Mitchell, van Buren, Greenwood, & Freeman, 2015; Mitchell, Weaver, Agle, Bailey, & Carlson, 2016; van der Linden & Freeman, 2017). In this vein, Harrison and Wicks conceptualize value

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**Creating Value by Sharing Values: Managing Stakeholder Value Conflict in the Face of Pluralism through Discursive Justification**

Published online by Cambridge University Press: 19 June 2020

Maximilian J. L. Schormair and Dirk Ulrich Gilbert

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**Abstract**

The question of how to engage with stakeholders in situations of value conflict to create value that includes a plurality of conflicting stakeholder value perspectives represents one of the crucial current challenges of stakeholder engagement as well as of value creation stakeholder theory. To address this challenge, we conceptualize a discursive sharing process between affected stakeholders that is oriented toward discursive justification involving multiple procedural steps. This sharing process provides procedural guidance for firms and stakeholders to create pluralistic stakeholder value through the discursive accommodation of diverging stakeholder value perspectives. The outcomes of such a discursive value-sharing process range from stakeholder value dissensus to low (agreement to disagree) and increasing levels of stakeholder value congruence (value compromise) to stakeholder value consensus (shared values). Hence, this article contributes to the emerging literature on integrative stakeholder engagement by conceptualizing a procedural framework that is neither overly oriented towards dissensus nor consensus.

**Keywords**

stakeholder value conflict value pluralism stakeholder engagement discursive justification sharing

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**Creating Value by Sharing Values: Managing Stakeholder Value Conflict in the Face of Pluralism through Discursive Justification**

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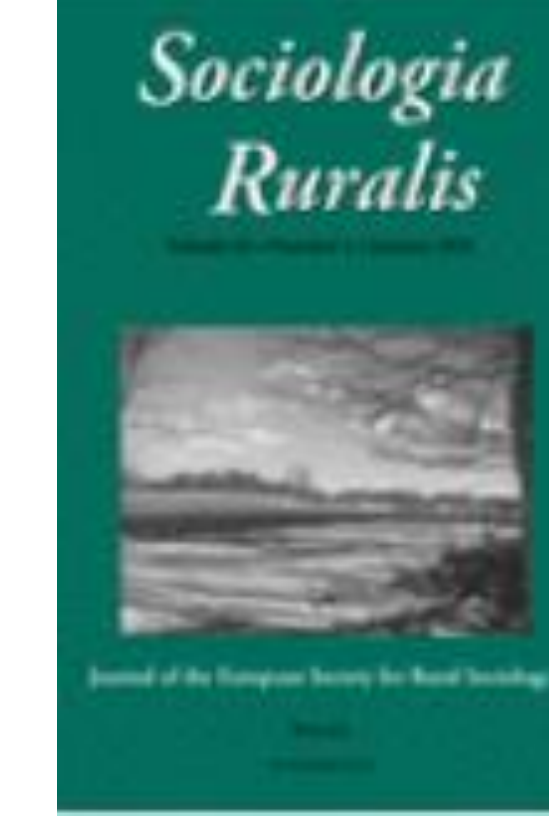
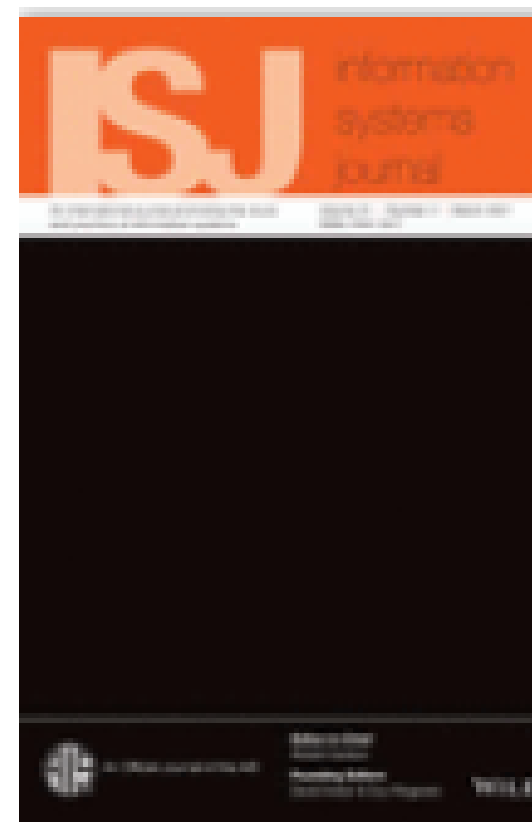
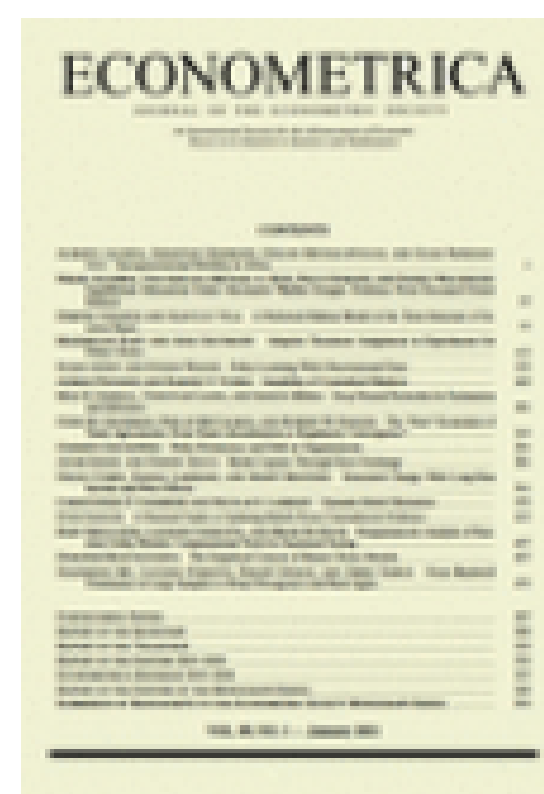
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## Contact and Commitment to Development: Evidence from quasi-random missionary assignments

Lee Crawford✉

First published: 12 August 2020 | <https://doi.org/10.1111/kykl.12255>

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### SUMMARY

Public support for global development in rich countries is critical for sustaining effective government and individual action. But the causes of public support are not well understood. Does spending time living in a developing country play a role in generating individual commitment to development? Addressing this question is fraught with selection bias, as individuals are rarely exogenously assigned to spend time in different countries. In this paper I address this question using a natural experiment – the quasi-random assignment of missionaries from the Church of Jesus Christ of Latter-day Saints to two-year missions in different world regions. I provide the first causal estimates of the effect of travel to a developing country on attitudes to global development. Data comes from a new survey gathered through mission alumni Facebook groups. Missionaries assigned to low-income and middle-income world regions (Africa, Asia, Latin America, and Caribbean) have similar prior characteristics to those assigned to high-income Europe. Those assigned to Africa self-report greater interest in global development and

KYKLOS, Vol. 74 – February 2021 – No. 1, 3–18

### Contact and Commitment to Development: Evidence from quasi-random missionary assignments

Lee Crawford\*

#### 1. INTRODUCTION

Close to 700 million people live in extreme poverty. Actions taken in rich countries matter for the wellbeing of people in poor countries. This includes both public policy and private action. Relevant public policy includes foreign aid, but also immigration, trade, investment, climate, and technology policy (Birdsall and Roodman 2003). Public support is critical to sustain such policy (Heinrich, Kobayashi, and Bryant 2016; Milner and Tingley 2013; Pritchett 2015; Tingley 2010). Private actions also matter, through individual giving and consumption choices.

This paper asks whether individual contact plays a role in forming attitudes towards global poverty and development. Many people who work on global development can point to a formative experience in a developing country that they believe set them on their current path. The intergroup contact hypothesis (Allport 1954) suggests that, in the right context, interaction between people from different groups can lead to reduced prejudice, which could lead to greater sympathy. Does interaction between people from high-income and lower income countries increase support for global development? Or are those who are predisposed to be interested in global development the ones who choose to spend time in developing countries?

In this paper I exploit the quasi-random assignment of missionaries to high or lower income world regions to estimate the effect of contact on attitudes to development. I provide the first causal estimates of the effect of travel to a developing country on attitudes to global development. Around a third of American members of the Church of Jesus Christ of Latter-day Saints go on a mission (Pew Research Center 2012; Riess 2019). These last around 2 years, and the location is assigned by the church based on revelation. I survey 1,499 returned missionaries.

\* Dr. Lee Crawford Senior Research Associate Center for Global Development in Europe (CGD Europe) 1 Abbey Gardens, Great College Street, London, UK SW1P 3SE [lee.crawford@gmail.com](mailto:lee.crawford@gmail.com). Acknowledgements: I'm grateful for helpful comments, advice, and inspiration to Jana Riess, Benjamin Knoll, Lant Pritchett, David K. Evans, Ryan T. Cragun, Matthew Martinich, Derill D. Watson, Matthew Collin, Rohit Nainpally, Georgina Turner, Matt Lowe, two anonymous referees, and editors for Kyklos.



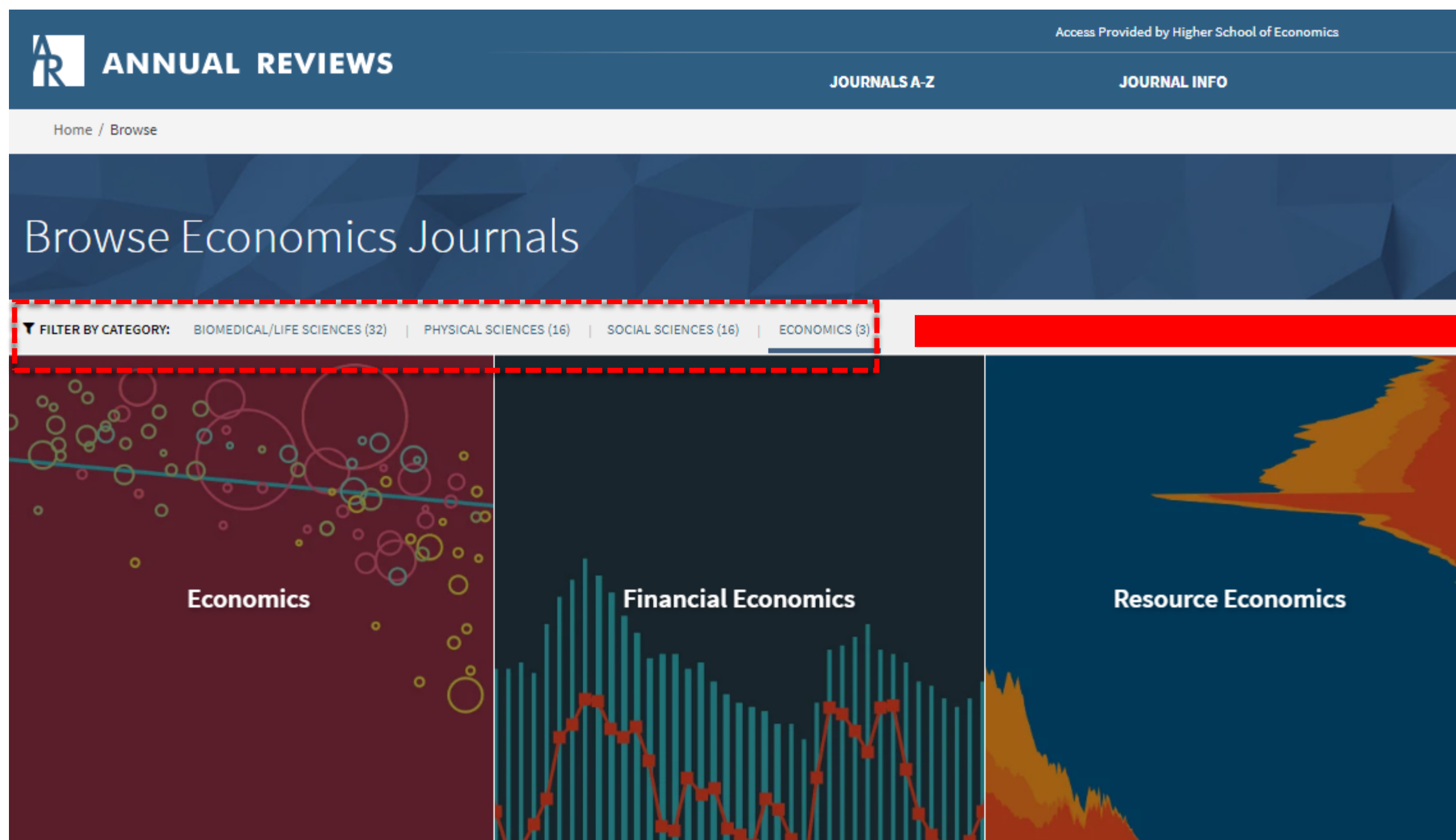
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**Abstract**

This article reviews important concepts and methods that are useful for hypothesis testing. First, we present, including finite-sample and large-sample optimality. Then, we summarize some of the most important methods, as well as resampling methodology, which is useful to set critical values. Finally, we consider the problem of multiple testing, which has witnessed a burgeoning literature in recent years. Along the way, we incorporate some examples that are current in the econometrics literature. While many problems with well-known successful solutions are included, we also address open problems that are not easily handled with current technology, stemming from such issues as lack of optimality or poor asymptotic approximations.

**Key Words**

asymptotics, multiple testing, optimality, resampling

**1. INTRODUCTION**

This review highlights many current approaches to hypothesis testing in the econometrics literature. First, we discuss the Neyman-Pearson framework, reviewing the key concepts in Section 2. As such, optimality is defined via the power function. The goal of the construction of uniformly most powerful tests (defined below) cannot usually be reached. We attempt to bring about a simplification of the problem. First, we consider restricting tests by the Neyman-Pearson framework. Then, we discuss notions of optimality that do not place any such restrictions, namely maximin tests, tests that are invariant to certain transformations, and tests that are invariant to certain transformations. Finally, we discuss approaches to optimality that are reviewed in Section 5. All these approaches, and some in combination, are reviewed in Section 5.

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**Key Words**

asymptotics, multiple testing, optimality, resampling

**Abstract**

This article reviews important concepts and methods that are useful for hypothesis testing. First, we discuss the Neyman-Pearson framework. Various approaches to optimality are presented, including finite-sample and large-sample optimality. Then, we summarize some of the most important methods, as well as resampling methodology, which is useful to set critical values. Finally, we consider the problem of multiple testing, which has witnessed a burgeoning literature in recent years. Along the way, we incorporate some examples that are current in the econometrics literature. While many problems with well-known successful solutions are included, we also address open problems that are not easily handled with current technology, stemming from such issues as lack of optimality or poor asymptotic approximations.

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### Quiet Politics and the Power of Business: New Perspectives in an Era of Noisy Politics

Glenn Morgan, Christian Lyhne Ibsen

First Published February 8, 2021 | Research Article | Check for updates  
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#### Abstract

This introduction summarizes the main contributions of this special issue titled "Quiet Politics and the Power of Business: New Perspectives in an Era of Noisy Politics." The four articles in the issue use and extend Culpepper's influential concept of "quiet politics" according to which business is able to shape policies and regulations when issues are of low salience to the public and politicians. The issue takes Culpepper's analysis further in ways that respond to the rise of noisy politics over the last few years, often associated with new strident forms of left- and right-wing populism. Three contributions are made. First, the articles show that salience is not an inherent property of a policy area but is socially constructed. Second, a variety of strategies are described that business uses when trying to keep politics quiet. Third, strategies are affected by the structure of business, which varies across types of capitalism. Future research can use these insights to extend our understanding of the limits, strategies, and dynamics of quiet politics across political economies.

#### Keywords

quiet politics, business power, policymaking

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**Quiet Politics and the Power of Business: New Perspectives in an Era of Noisy Politics\***

**Glenn Morgan**  
University of Bristol

**Christian Lyhne Ibsen**  
University of Copenhagen

**Abstract**  
This introduction summarizes the main contributions of this special issue titled "Quiet Politics and the Power of Business: New Perspectives in an Era of Noisy Politics." The four articles in the issue use and extend Culpepper's influential concept of "quiet politics" according to which business is able to shape policies and regulations when issues are of low salience to the public and politicians. The issue takes Culpepper's analysis further in ways that respond to the rise of noisy politics over the last few years, often associated with new strident forms of left- and right-wing populism. Three contributions are made. First, the articles show that salience is not an inherent property of a policy area but is socially constructed. Second, a variety of strategies are described that business uses when trying to keep politics quiet. Third, strategies are affected by the structure of business, which varies across types of capitalism. Future research can use these insights to extend our understanding of the limits, strategies, and dynamics of quiet politics across political economies.

**Keywords**  
quiet politics, business power, policymaking

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Email: cli@faos.dk

\*This is one of six articles that constitute a special issue titled "Quiet Politics and the Power of Business: New Perspectives in an Era of Noisy Politics." Some of the articles in the issue were first presented at the SASE annual meeting at the Université Claude Bernard Lyon 1 in June 2017, organized by Glenn Morgan, Christoph Houman Ellersgaard, Stéphanie Ginalska, and Christian Lyhne Ibsen, and at a workshop at the University of Bristol funded by the School of Management and the Political Studies Association section on Labour Movements in June 2018, organized by Glenn Morgan, Christian Lyhne Ibsen, and Magnus Feldmann.

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### Placing products in humorous scenes: its impact on brand perceptions

Fanny Fong Yee Chan  
*Department of Marketing, The Hang Seng University of Hong Kong, Shatin, Hong Kong, and*

Ben Lowe  
*Kent Business School, University of Kent, Canterbury, UK*

Impact on brand perceptions

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**649**

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Revised 16 November 2019  
24 April 2020  
17 August 2020  
Accepted 22 August 2020

**Abstract**

**Purpose** – This study aims to extend the literature on marketing communications by exploring the effect of placing products in humorous scenes. It aims to ascertain the prevalence of placement scenes associated with humor in television programs and the effect of humor on brand persuasiveness.

**Design/methodology/approach** – The study used a two-phase research process. A content analysis of prime-time television programming was conducted to map the relative prevalence of brands placed in humorous contexts and for the selection of research stimuli. This was followed by a large-scale experimental study of 1,100 television viewers in Hong Kong with real stimuli that had been digitally manipulated.

**Findings** – The study found that a humorous context did enhance recall of placed brands but its effect on brand attitudes was mediated by audience involvement in the viewing and moderated by psychological trait reactance. Interestingly, and in contrast to conventional advertising, placing brands in a humorous context led to lower involvement in the viewing, which, in turn, resulted in lower brand attitudes. Individuals with low trait reactance were more positive toward brands placed in a non-humorous context than individuals with high trait reactance while individuals with high trait reactance were more positive toward brands placed in a humorous context, though the difference was less prominent.

**Research limitations/implications** – The findings help to illustrate when and how a humorous context contributes to the recall of and attitudes toward placed brands.

**Practical implications** – The results also facilitate marketers and program producers to choose the best placement context and design more effective placement strategies.

**Originality/value** – This research is the first to empirically examine the effect of a humorous context on the unaided recall of and attitudes toward brands placed in television programs.

**Keywords** Humor, Product placement, Audience involvement, Psychological trait reactance, Brand recall, Brand attitude

**Paper type** Research paper

**Introduction**  
Unlike traditional advertising, product placement may overcome consumers' advertising avoidance techniques and allow marketers to communicate with a more captive audience. Product placement is a fast-growing practice and has recorded several consecutive years of growth in revenues (PQ Media, 2020). Product placement is widely researched, and researchers have looked at a range of executional factors that influence its effectiveness,




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**Conceptual Approaches to Treatment of the Essence of Conflict as an Economic Category**

Tatiana N. Litvinova

"Conflict-Free" Socio-Economic Systems

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Abstract

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Conflict Socio-economic system Opportunism Opposition to innovations Crisis

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Chapter 1

**Conceptual Approaches to Treatment of the Essence of Conflict as an Economic Category**

*Tatiana N. Litvinova<sup>1</sup>*

**Introduction**

Socio-economic systems are unstable and are subject to conflicts due to certain reasons. First, these systems are complex and have many levels. They include a lot of economic subjects, each of which seeks its own interests. The social nature of economic subjects leads to their limited rationality, which complicates forecasting their behavior and managing them. Second, developing according to the market model, modern economic systems aim at intensive growth and are subject to constant changes.

These changes often conform to the interests of certain economic subjects and contradict the interests of others. Third, socio-economic systems are imperfect – despite multiple attempts at their optimization. Ideal models (including the model of market economy) of development of these systems are very difficult to be implemented in practice. This process becomes more complicated due to differentiation of socio-economic systems and complexity of models' adaptation to their peculiarities.

Due to the above reasons, conflicts are a normal phenomenon, which appears in socio-economic systems. However, the modern economic theory does not have a fundamental scientific paradigm of studying conflicts, which hinders their precise determination and does not allow developing a clear and unambiguous attitude toward economic conflicts (universal or differentiated depending on the classification of conflicts, which is also absent) and managing the conflicts depending on the goals and priorities of socio-economic systems.

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### Chohan Decoration Services Pakistan – survival amid COVID-19

Abdul Rehman Shaikh, Asad Ali Qazi ▾

Emerald Emerging Markets Case Studies

ISSN: 2045-0621

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CASE TEACHING NOTES

#### Case summary

#### Learning outcomes

The learning outcomes of this paper is as follows: understand the impact of macroeconomic challenges on startups; gain insights into the effects of self-management attribute over entrepreneurial effectiveness and performance; create a conceptual framework for customer satisfaction; analyze the internal and external factors affecting the entrepreneurial journey of new startups.

#### Case overview/synopsis

This case revolves around the entrepreneurial journey of Mr Khursheed Chohan who belonged to Sukkur (Pakistan). He started his journey as a daily wage worker in the year 2002 at the age of 17 years. After one year he acquired a rickshaw on rent and would drive the same as a taxi. In the year 2006, he started the job as a private driver. For achieving his dreams, he moved to Karachi (the land of opportunities) at the age of 27 years. During his stay in Karachi, he learned about insights into the wedding decoration industry. Keeping in view the market requirements, he also took some training courses on learning computers. By the age of 34, he returned to his hometown with the will to start his business venture of wedding decoration services. It had been around one year, he was successfully running his business. However, the emergence of Coronavirus (COVID-19) and the imposition of lockdown over businesses were his most recent challenges. While Chohan had pre-booked several orders and secured advance money, shall he be able to survive the COVID-19 effects? Shall he be able to continue his entrepreneurial journey?

Complexity academic level

### Chohan Decoration Services Pakistan – survival amid COVID-19

Abdul Rehman Shaikh and Asad Ali Qazi

#### Introduction

It was March 17, 2020, Mr Khursheed Chohan was having dinner with his family at his home in Sukkur – a town located in Sindh province of Pakistan – when he heard the news of a partial lockdown as announced by the Sindh Government across the province to contain the spread of Novel Coronavirus (COVID-19). The government had announced for the closure of all the restaurants, public parks and banquet halls across the province, along with various departments/offices (Samaa, 2020). The educational institutes were, however, closed across the province since 27th February, after the first case of COVID-19 was reported.

Chohan had established his own business of wedding decoration services in Sukkur, offering the wedding decoration items for rent to residential and commercial clients. He was successfully managing his start-up since January 2019. His venture named Chohan Decoration Services was located at the main airport road Sukkur. Chohan had booked several orders for the supply of decoration items to different banquet halls for about the next 15 days. Then as per market practice, he had also collected the advance money to secure the service orders. However, after the announcement of partial lockdown, the business persons were made responsible to cancel all such future orders and to return the advance deposits to respective customers. While Chohan had already used all the advance deposits over either his domestic needs or over the purchase of some new items for his business; he was not sure whether he shall be able to survive the effects of COVID-19 and continue his entrepreneurial journey.

#### Chohan's early days

Chohan was born in a socio-economic challenged family. His parents (both) worked day and night, to feed their family. His father would work in a brickfield in a nearby village called "Jahaan Khan." While his mother would work as a maid in different houses. He was the only son of his parents and had two younger sisters. Due to his financial conditions, he could not pursue his education beyond 10th grade. After completing his education in June 2002, he went for work along with his father in the brickfield. He was working as a daily wage worker and earning less than PKR.[1] 2,500 monthly. Realizing that he shall not be able to achieve his dreams, he left the brickfield within six months and acquired a rickshaw[2] on a rental basis. By working for around more than 12 h a day, he could earn around PKR. 4,000 monthly after paying the rent for the rickshaw. He continued driving a rickshaw for around three years when he got an offer to work as a private driver for one of the banking officer. He was offered a fixed salary of PKR. 3,500 per month with one day as weekly off and fixed duty timing of 10 h per day. After his duty with the banking officer, he continued to drive the same rickshaw in evening hours and off days.

Abdul Rehman Shaikh is based at the Directorate of IBA CC and S, Sukkur IBA University, Sukkur, Pakistan. Asad Ali Qazi is based at the Department of Business Administration, Sukkur IBA University, Sukkur, Pakistan.

Disclaimer: This case is written solely for educational purposes and is not intended to represent successful or unsuccessful managerial decision-making. The authors may have disguised names, financial and other recognisable information to protect confidentiality.

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**A Modern Guide to Economic Sociology**  
Elgar Modern Guides  
Edited by Milan Zafirovski

This accessible guide to the rapidly growing and interdisciplinary field of modern economic sociology offers critical insights into its fundamental concepts and developments. International in scope, contributions from leading economic sociologists and sociologically-minded economists explore the intersections and implications for theory and empirical research in both disciplines.

**Monograph Book**

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Collection: Economics 2020

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**1. Introduction to *A Modern Guide to Economic Sociology***  
**Milan Zafirovski**

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**GENERAL CONSIDERATIONS**

This volume provides a modern guide to the fundamental concepts, premises and findings of economic sociology within sociological theory and research and its elements and implications in theoretical and empirical economics. Accordingly, it invites and includes contributions from both modern economic sociologists and contemporary sociologically minded – especially institutional, social, political, behavioral and cognitive – economists doing theoretical or empirical work in this and closely related fields.

In general, the concepts, premises and stages of economic sociology within sociological theory and research tend to correspond and converge with its elements and implications in theoretical and empirical economics. Thus, the fundamentals and main developments of economic sociology within sociological analysis appear to be generally compatible with the variations and tendencies in economics. Almost every major concept, premise and stage of economic sociology corresponds, converges and is essentially compatible in various degrees and ways with an element, implication and phase of it in economics, primarily social, institutional, political, behavioral and related economics. This can be considered and formulated as a high degree of correspondence, convergence and compatibility between economic sociology within sociological theory and research and its elements and approximations in theoretical and empirical economics with respect to a shared set of core concepts and premises, as well as a common sequence of phases of development. And this shared set of core principles or a common sequence of phases primarily makes sociology and economics ‘sister disciplines’ or ‘allied’ social sciences, probably more than any other ideas or methods do (including ‘rational choice theory’ or the universal ‘economic approach to human behavior’ extending from the second to the first discipline).

For illustration, the original, classical idea, premise and phase of economic sociology in sociological theory since Auguste Comte and perhaps even earlier

**Monograph Chapter**

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Economics Category

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Journal of Economic Literature

IF 8.604

2020 JCR Ranking\*: 5/556  
Economics Category

Годы охвата: от 1969 до 2021 гг.



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American Economic Journal: Applied Economics 2020, 12(4): 1-38  
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**War of the Waves:  
Radio and Resistance during World War II<sup>†</sup>**

By STEFANO GAGLIARDUCCI, MASSIMILIANO GAETANO ONORATO,  
FRANCESCO SOBBRIO, AND GUIDO TABELLINI\*

*We analyze the role of the media in coordinating and mobilizing insurgency against an authoritarian regime, in the context of the Nazi-fascist occupation of Italy during WWII. We study the effect of BBC radio on the intensity of internal resistance. By exploiting variations in monthly sunspot activity that affect the sky-wave propagation of BBC broadcasting toward Italy, we show that BBC radio had a strong impact on political violence. We provide further evidence to document that BBC radio played an important role in coordinating resistance activities but had no lasting role in motivating the population against the Nazi-fascist regime. (JEL D74, L82, N44)*

**D**uring any war, the transmission of information to troops on the ground is an essential weapon. Information is needed to transmit orders, to coordinate and direct military operations, to warn soldiers of imminent dangers, and also to motivate the troops, letting them know that they are not alone and that they are fighting for a worthy cause. Information is especially important during civil wars or when civilians resist a foreign occupation. In such circumstances, military organizations are looser and less hierarchical, and the need for coordination is accordingly greater; moreover, information about the chances of victory, propaganda, and spreading of

\*Gagliarducci: Department of Economics and Finance and CEIS, University of Rome Tor Vergata, Columbia 2, 00133 Roma (Italy), EIEF, IZA, and Dondeca-Università Bocconi (email: stefano.gagliarducci@uniroma2.it); Onorato: Department of Economics, University of Bologna, Piazza Scaravilli 2, 40126, Bologna, Italy (email: massimiliano.onorato@unibo.it); Sobbrío: Department of Economics and Finance, Luiss University, Viale Romania 32, 00197 Roma, Italy, and CESifo (email: fsobbrio@luiss.it); Tabellini: Department of Economics and IGER, Bocconi University, Via Roentgen 1 20136 Milano, Italy, and CIFAR, CEPR, and CESifo (email: Guido.Tabellini@unibocconi.it); Benjamin Olken was coeditor for this article. We thank four anonymous referees, Bruno Caprettini, Mirko Draca, Marco Manasse, Paolo Morandotti, Tommaso Nannicini, Laura Ogliari, Maria Petrova, Giulio Seccia, Andrea Tesci, Joachim Voith, and seminar participants at Queen Mary University of London, University of Siena, Catholic University of Milan, Tor Vergata University, Università Politecnica delle Marche, University of Exeter, the 2019 AEA Annual Meeting, the European Public Choice Society Congress 2018, the 15th Media Economics Workshop at Barcelona GSE, the 1st Political Economy of Development Conference at Warwick University, the 2nd Economics of Media Bias Workshop at Lausanne University, the 2nd Marco Fanno Alumni Workshop, the Petralia Sottana Workshop 2017, and the Italian Congress of Econometrics and Empirical Economics 2017 for many helpful suggestions. We also thank Fabrizio Murè and Fabio Principe for the development of the *RadioPropagAnDa* software, and Filippo Sinagra for his precious insights on cryptography during the Resistance. We are grateful to Ben Olken for providing the software necessary for the *ITM* calculation, Ruben Enikolopov for his help with the *ITM* software and Martin Watkins for sharing his data on BBC transmitters. Riccardo Bianchi Vimercati, Igor Cerasa, Viola Corradini and Nicola Fontana provided an outstanding research assistance.

<sup>†</sup>Go to <https://doi.org/10.1257/app.20190410> to visit the article page for additional materials and author disclosure statement(s) or to comment in the online discussion forum.

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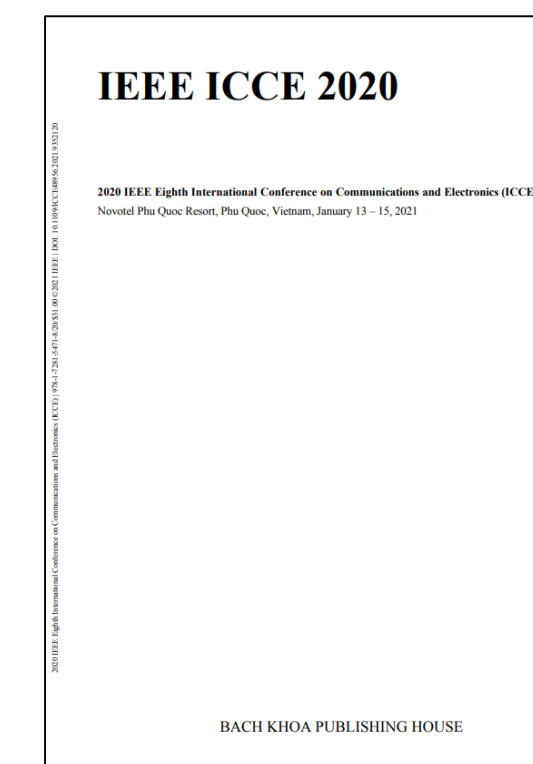


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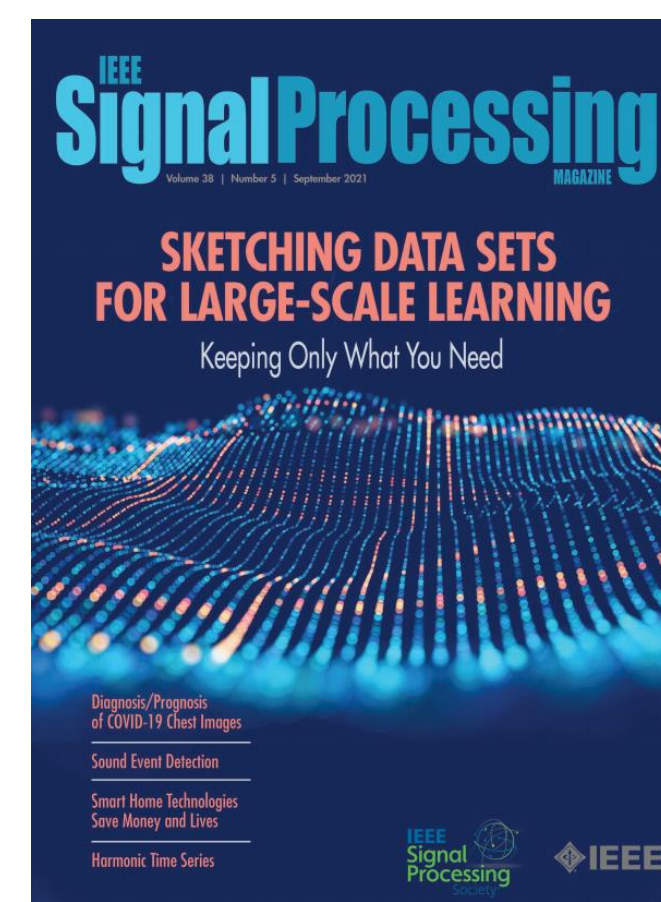
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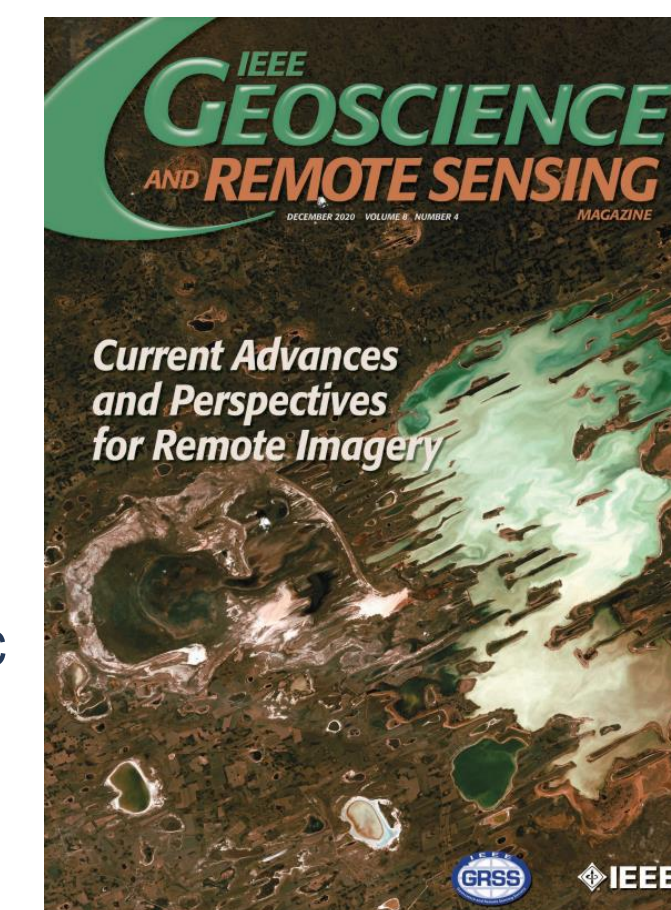


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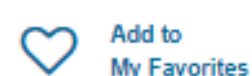
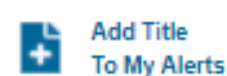
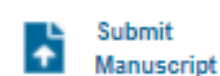
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### Design of Polar Codes in 5G New Radio

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#### Abstract:

Polar codes have attracted the attention of academia and industry alike in the 5<sup>th</sup> generation wireless systems (5G) standardization process of the 3<sup>rd</sup> generation partnership project (3GPP) chose polar codes as a channel coding scheme. In this tutorial, we illustrate the encoding process of polar codes adopted by the 5G standard. We illustrate a family of polar codes able to satisfy the demands of 5G systems, with particular attention to rate flexibility and low decoding latency. The result of these efforts is an elaborate framework that applies novel coding techniques to provide a solid channel code for NR requirements.

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### SECTION I. Introduction

Polar codes are a class of capacity-achieving codes introduced by Arkan

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### Design of Polar Codes in 5G New Radio

Valerio Bioglio, Member, IEEE, Carlo Condo, Member, IEEE, and Ingmar Land, Senior Member, IEEE

**Abstract**—Polar codes have attracted the attention of academia and industry alike in the past decade, such that the 5<sup>th</sup> generation wireless systems (5G) standardization process of the 3<sup>rd</sup> generation partnership project (3GPP) chose polar codes as a channel coding scheme. In this tutorial, we provide a description of the encoding process of polar codes adopted by the 5G standard. We illustrate the struggles of designing a family of polar codes able to satisfy the demands of 5G systems, with particular attention to rate flexibility and low decoding latency. The result of these efforts is an elaborate framework that applies novel coding techniques to provide a solid channel code for NR requirements.

**Index Terms**—5G mobile communications, standardization, channel coding, block codes, error correction codes, polar codes.

#### I. INTRODUCTION

POLAR codes are a class of capacity-achieving codes introduced by Arkan [1]. In the past decade, the interest and research effort on polar codes has been constantly rising in academia and industry alike. Within the ongoing 5<sup>th</sup> generation wireless systems (5G) standardization process of the 3<sup>rd</sup> generation partnership project (3GPP), polar codes have been adopted as channel coding for uplink and downlink control information for the enhanced mobile broadband (eMBB) communication service. 5G foresees two other frameworks, namely ultra-reliable low-latency communications (URLLC) and massive machine-type communications (mMTC), for which polar codes are among the possible coding schemes.

The construction of a polar code involves the identification of channel reliability values associated to each bit to be encoded. This identification can be effectively performed given a code length and a specific signal-to-noise ratio. However, within the 5G framework, various code lengths, rates and channel conditions are foreseen, and having a different reliability vector for each parameter combination is unfeasible. Thus, substantial effort has been put in the design of polar codes that are easy to implement, having low description complexity, while maintaining good error-correction performance over multiple code and channel parameters.

The majority of available literature does not take into account the specific codes designed for 5G and their encoding process; given their upcoming widespread utilization, the research community would benefit from considering them within

error-correction performance evaluations and encoder/decoder designs. Both the encoding and the decoding process can in fact incur substantial speed and complexity overhead, while the performance of decoders is tightly bound to the characteristics of the polar code. Works focusing on hardware and software implementations can effectively broaden their audience by including compliance to the 5G standard.

An industry standard is a document providing specifications for delivering a service agreed upon by a group of competing companies. This agreement allows different manufacturers to create products that are compatible with each other, so that standard details are often the result of a *quid pro quo* among companies. The outcome of the endless discussions and struggles among different agendas is a patchwork of techniques, whose mixture provides acceptable performance; for this reason, a standard usually represents the state-of-the-art of a field more than its pinnacle.

In this paper, we provide a tutorial for the polar code encoding process foreseen by 5G in [2], from the code concatenation, through interleaving functions, to the polar-code specific subchannel allocation and rate-matching schemes. The purpose of this work is to provide the reader with a straightforward, self-contained guide to the understanding and implementation of 5G-compliant encoding of polar codes. While this work does not claim to substitute the reading of the standard, we aim at assisting the reader in its comprehension, restructuring its presentation and reformulating some of the contents to improve readability.

The remainder of the paper is organized as follows. Section II introduces the basics on polar codes, while Section III details more advanced design features, along with concepts used in the 5G encoding process, such as interleaving and rate-matching. Section IV details a step-by-step guide to 5G polar code encoding. Decoding considerations are addressed in Section V, while conclusions are drawn in Section VI.

#### II. PRELIMINARIES

In this section, we describe the fundamental concepts necessary to familiarize with the structure, the encoding and the decoding of polar codes. This section can be skipped by readers having basic knowledge on the field, while we refer readers interested in further details and examples to [3].

#### A. Channel Polarization

The channel polarization phenomenon, introduced in [1], consists of a transformation which produces  $N$  “synthetic” bit-channels from  $N$  independent copies of a binary-input discrete memoryless channel (B-DMC). The new synthetic channels are then “polarized” in the sense that each of them can transmit a single bit at a different reliability, i.e., with a different

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The authors are with the Mathematical and Algorithmic Sciences Lab, Huawei France, Paris Research Centre, 92100 Boulogne-Billancourt, France (e-mail: valerio.bioglio@huawei.com; carlo.condo@huawei.com; ingmar.land@huawei.com).  
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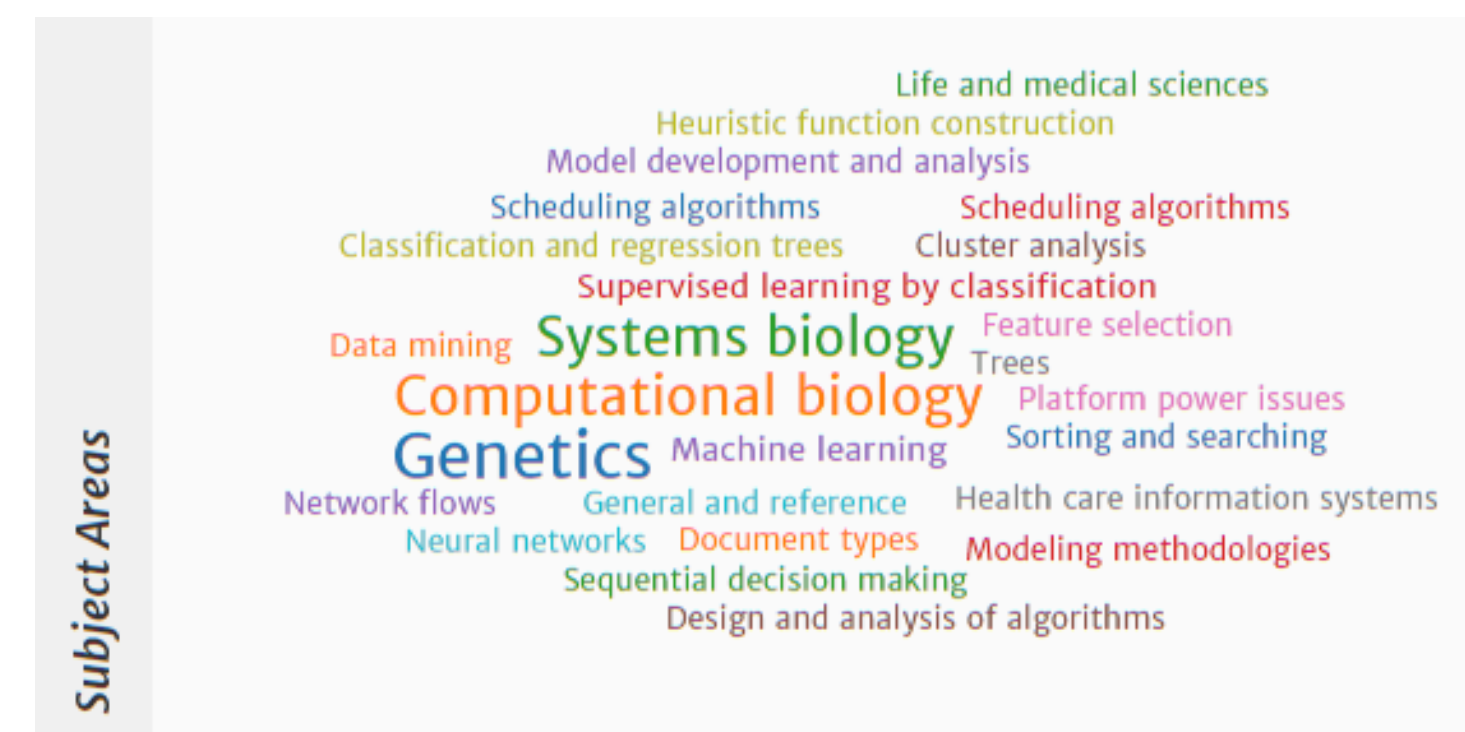
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March 2021, Article No.: 16e, pp 1–14 • <https://doi.org/10.1145/3436897>

AI-based automated decisions are increasingly used as part of new services being deployed to the general public. This approach to building services presents significant potential benefits, such as the reduced speed of execution, increased accuracy, ...

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### Addressing Regulatory Requirements on Explanations for Automated Decisions with Provenance—A Case Study

Authors: Trung Dong Huynh, Niko Tsakalakis, Ayah Helal, Sophie Stalla-Bourdillon, Luc Moreau

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Publication: Digital Government: Research and Practice • January 2021 • Article No.: 16e

• <https://doi.org/10.1145/3436897>

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**Addressing Regulatory Requirements on Explanations for Automated Decisions with Provenance—A Case Study**

TRUNG DONG HUYNH, King's College London, United Kingdom  
NIKO TSAKALAKIS, University of Southampton, United Kingdom  
AYAH HELAL, King's College London, United Kingdom  
SOPHIE STALLA-BOURDILLON, University of Southampton, United Kingdom  
LUC MOREAU, King's College London, United Kingdom

AI-based automated decisions are increasingly used as part of new services being deployed to the general public. This approach to building services presents significant potential benefits, such as the reduced speed of execution, increased accuracy, lower cost, and ability to adapt to a wide variety of situations. However, equally significant concerns have been raised and are now well documented such as concerns about privacy, fairness, bias, and ethics. On the consumer side, more often than not, the users of those services are provided with no or inadequate explanations for decisions that may impact their lives. In this article, we report the experience of developing a socio-technical approach to constructing explanations for such decisions from their audit trails, or provenance, in an automated manner. The work has been carried out in collaboration with the UK Information Commissioner's Office. In particular, we have implemented an automated Loan Decision scenario, instrumented its decision pipeline to record provenance, categorized relevant explanations according to their audience and their regulatory purposes, built an explanation-generation prototype, and deployed the whole system in an online demonstrator.

CCS Concepts: • Theory of computation → Data provenance; • Security and privacy → Information accountability and usage control; • Social and professional topics → Technology audits; Automation; Socio-technical systems; Governmental regulations;

Additional Key Words and Phrases: Explainable computing, GDPR, automated decisions, data provenance

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<https://doi.org/10.1145/3436897>

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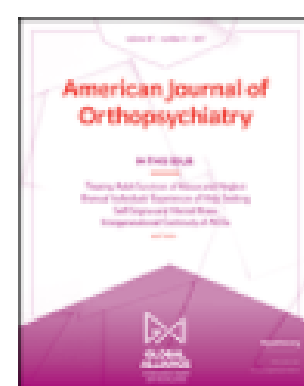
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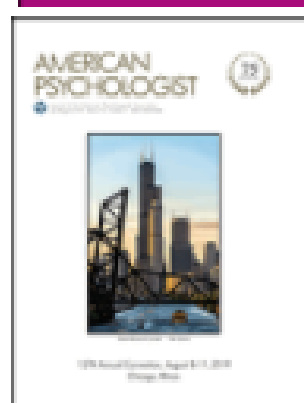


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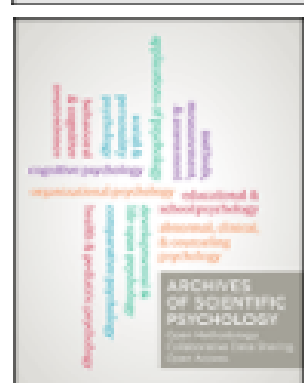


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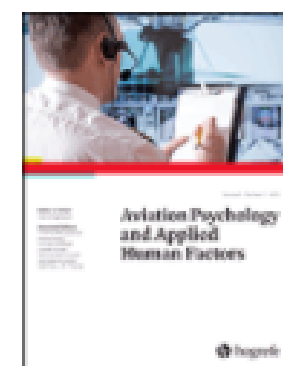


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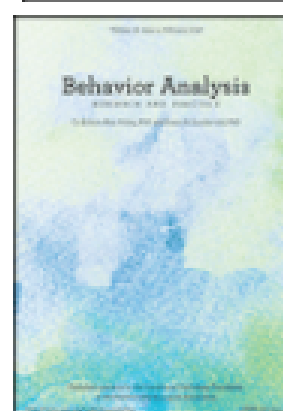
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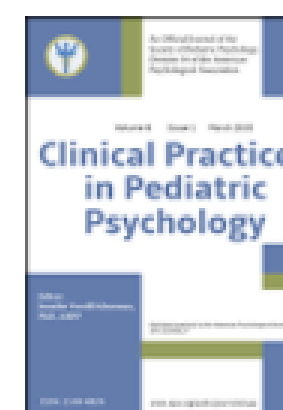
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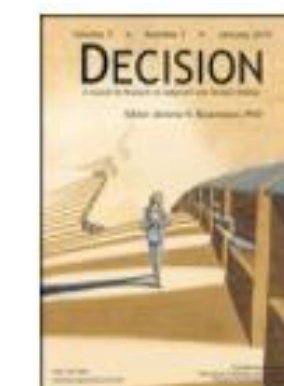
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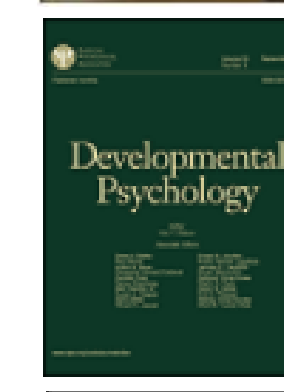
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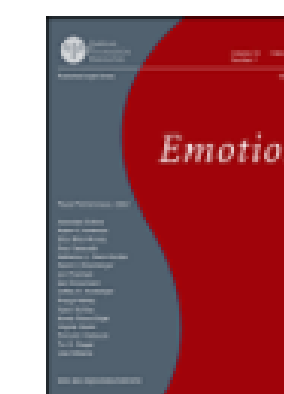


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### Children's Emotion Perception in Context: The Role of Caregiver Touch and Relationship Quality

Cat Thrasher, Tobias Grossmann

Author Affiliations

Thrasher, C., & Grossmann, T. (2021). Children's emotion perception in context: The role of caregiver touch and relationship quality. *Emotion*, 21(2), 273-282. <http://dx.doi.org/10.1037/emo0000704>

#### Abstract

From early in development, attention to emotional facial expressions is biased toward threat. We examined whether caregiver availability affects children's emotion perception and possibly reduces threat bias. In 3 experiments, 4- and 5-year-old children were asked to detect threatening (angry) and nonthreatening (happy) facial expressions on a touch screen. Children completed the emotion detection task either with or without their caregiver sitting next to them on a bench, first using a between-subjects design where each child completed the task once (Experiment 1;  $N = 40$ ) and then using a within-subjects design where each child completed the task twice (Experiment 2;  $N = 20$ ). In Experiments 1 and 2, mere caregiver presence had no effect on children's emotion detection or threat bias. In Experiment 3, we increased the salience of caregiver presence by having children complete the task while holding hands with their caregiver (Experiment 3;  $N = 45$ ). In dyads reporting high quality child-caregiver relationships, handholding facilitated detection of happy faces and significantly reduced children's threat bias. These findings suggest that caregiver touch impacts emotion perception in children as a function of relationship quality and that caregiver context plays a role in shaping children's responses to their social environment.



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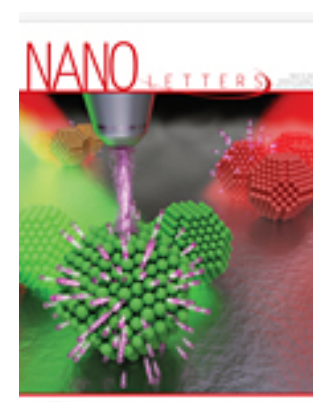
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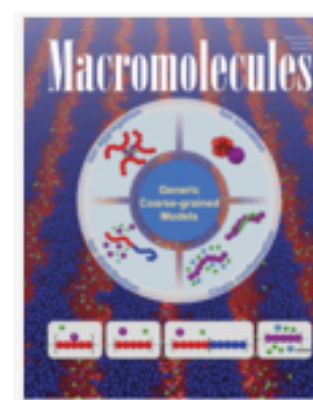
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### Electron Transfer Photochemistry of Geraniol and (*E,E*)-Farnesol. A Novel "Tandem", 1,5-Cyclization, Intramolecular Capture

Hengxin Weng, Christopher Scarlata, and Heinz D. Roth

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#### Abstract

The electron transfer photoreaction between 9,10-dicyanoanthracene (DCA) and (*E*)-3,7-dimethylocta-2,6-dien-1-ol (geraniol, (*E*)-propenyl)-*trans*-5-methylcyclopentanemethanol, *cis,trans*-**3**, whereas irradiation of acetonitrile solutions of 1,4-dicyanobenzene (oxabicyclo[3.3.0]octanes (**4**, R = H; **5**, R = *p*-C<sub>6</sub>H<sub>4</sub>CN). Analogous results are observed in the photoreaction of farnesol ((*E,E*)-**2**) with **1** or **2** has sufficient driving force ( $\Delta G \approx -0.7$  eV in acetonitrile) for the generation of solvent-separated radical ion pairs (SSRIPs); in contrast, the marginal driving force ( $\Delta G \approx 0$  eV) of the DCA sensitized reaction allows only the formation of contact radical ion pairs (CRIPs). The resulting radical cations react by five-center C-C cyclization, yielding di-tertiary, 2,6-bifunctional methylidenecyclopentyl radical cations, *cis*- or *trans*-**B**<sup>•+</sup>. Subsequent intramolecular hydrogen transfer, generating product **3**. The radical cations, *trans*-**B**<sup>•+</sup>, of SSRIPs undergo a second cyclization by oxabicyclo[3.3.0]oct-6-yl free radicals, *trans*-**C**.

\* In papers with more than one author, the asterisk indicates the name of the author to whom inquiries about the paper should be addressed.

X Abstract published in *Advance ACS Abstracts*, November 1, 1996.

#### Introduction

The structures and reactions of organic radical cations have been the focus of much interest for the past decade.<sup>1</sup> Among bimolecular reactions, their additions to alkenes<sup>2</sup> and their nucleophilic capture by alcohols,<sup>3</sup>

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**JOURNAL OF THE AMERICAN CHEMICAL SOCIETY**

Electron Transfer Photochemistry of Geraniol and (*E,E*)-Farnesol. A Novel "Tandem", 1,5-Cyclization, Intramolecular Capture

Hengxin Weng, Christopher Scarlata, and Heinz D. Roth\*

Contribution from the Department of Chemistry, Rutgers University, New Brunswick, New Jersey 08855-0939  
Received July 31, 1995<sup>†</sup>

**Abstract:** The electron transfer photoreaction between 9,10-dicyanoanthracene (DCA) and (*E*)-3,7-dimethylocta-2,6-dien-1-ol (geraniol, (*E*)-1 in dichloroethane produces mainly *cis*-2-(2-propenyl)-*trans*-5-methylcyclopentanemethanol, *cis,trans*-**3**, whereas irradiation of acetonitrile solutions of 1,4-dicyanobenzene (DCB) and (*E*)-1 forms mainly two *trans*-fused 3-oxabicyclo[3.3.0]octanes (**4**, R = H; **5**, R = *p*-C<sub>6</sub>H<sub>4</sub>CN). Analogous results are observed in the photoreaction of farnesol ((*E,E*)-**2**) with DCB in the presence of phenanthrene as cosensitizer. The photoreaction of DCB with **1** or **2** has sufficient driving force ( $\Delta G \approx -0.7$  eV in acetonitrile) for the generation of solvent-separated radical ion pairs (SSRIPs); in contrast, the marginal driving force ( $\Delta G \approx 0$  eV) of the DCA sensitized reaction allows only the formation of contact radical ion pairs (CRIPs). The resulting radical cations react by five-center C-C cyclization, yielding di-tertiary, 2,6-bifunctional methylidenecyclopentyl radical cations, *cis*- or *trans*-**B**<sup>•+</sup>. Subsequently, CRIPs undergo rapid back electron transfer and intramolecular hydrogen transfer, generating product **3**. The radical cations, *trans*-**B**<sup>•+</sup>, of SSRIPs undergo a second cyclization by intramolecular nucleophilic capture, generating 3-oxabicyclo[3.3.0]oct-6-yl free radicals, *trans*-**C**.

**Introduction**









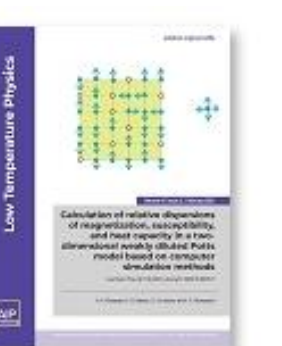










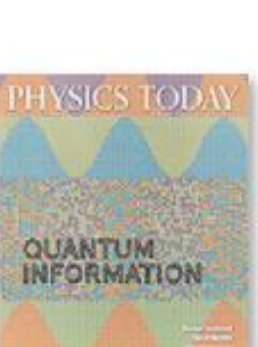


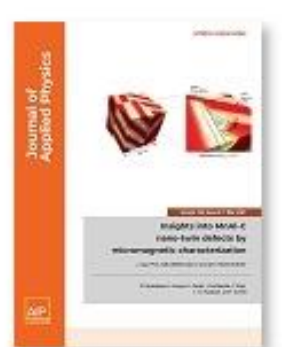

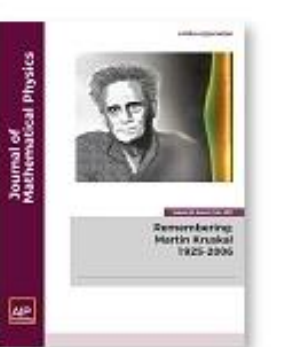



The structures and reactions of organic radical cations have been the focus of much interest for the past decade.<sup>1</sup> Among bimolecular reactions, their additions to alkenes<sup>2</sup> and their nucleophilic capture by alcohols,<sup>3</sup> whose reactions are rationalized via five membered ring biradicals as preferred intermediates ("rule of five")<sup>4</sup> nonconjugated alkenyl radicals also prefer five-center cyclizations.<sup>5</sup> Since the main difference between the excited states of nonconjugated dienes, on the one hand, and the corresponding radical cations, on the other, is the presence or absence of an electron in an antibonding orbital, one might have expected similar reactivity for the two types of intermediates.

Considering that the 1,6-cyclization of the 2,5-dialkylhexadiene radical cations benefits from a stabilizing effect of the phenyl groups in the 1,4-diyli intermediate,<sup>6</sup> we have begun to investigate electron transfer induced reactions of hexadiene

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#### EDITORIALS

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### Meeting today's needs in applied physics publishing

André Anders

Journal of Applied Physics 129, 090401 (2021); <https://doi.org/10.1063/5.0047440>

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### Meeting today's needs in applied physics publishing

Journal of Applied Physics 129, 090401 (2021); <https://doi.org/10.1063/5.0047440>

André Anders, Editor-in-Chief

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#### TOPICS

- Scholarly publishing
- Alloys
- Conference
- Materials science
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- Semiconductors
- Review
- Physics journal

*Journal of Applied Physics* defines itself as a community-serving journal for research in the field of applied physics. While this may be clear, the editors of the journal asked: What can we do better to meet the needs of the applied physics community? This editorial is a brief report on our recent activities.

As a top priority, we continue to ensure that only high-quality work is published: we strictly follow the publication criteria defined by the "raising the bar" policies introduced some years ago.<sup>1</sup> These criteria, which are clearly outlined on the journal's website, are applied uniformly by our large, international team of associate editors. They are all working professionals, professors at universities or researchers at national laboratories, who have a close relationship to their scientific community and who use their specific knowledge to make informed decisions.

This knowledge is also used to identify and promote Special Topics in the journal. Working with Guest Editors, all of whom are well-known experts in their field, we have significantly increased our output in the form of *Special Topic Collections*. Based on suggestions by editors and members of the Editorial Advisory Board, the range of Special Topics now covers the full range of our Table of Contents. Guest Editors define the scope and direction of Special Topics, which is the base for their success.

Journal of Applied Physics EDITORIAL scitation.org/journal/jap

### Meeting today's needs in applied physics publishing

Cite as: *J. Appl. Phys.* 129, 090401 (2021); doi: 10.1063/5.0047440  
Submitted: 13 February 2021 · Accepted: 17 February 2021 · Published Online: 5 March 2021

André Anders

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Leibniz Institute of Surface Engineering (IOM), Permoserstr. 15, Leipzig 04318, Germany

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Guest Editors Wlodek Walukiewicz (University of California, Berkeley), Lawrence Berkeley National Laboratory and Joshua Zide (University of Delaware) organized the Special Topic, "Highly Mismatched Semiconductor Alloys," which saw 42 accepted papers, with Associate Editors Rachel S. Goldman (University of Michigan) and Kin Man Yu (City University Hong Kong) organizing peer review. The Special Topic Collections "Advanced Thermoelectrics," where Ryoji Funahashi (AIST Osaka, Japan), George S. Nolas, and Lilia Woods (both University South Florida) served as Guest Editors, with Deputy Editor Simon Philippot (University of Florida) working behind the scenes, contains 53 published papers. An even larger collection with 63 papers was the Special Topic "Defects in Semiconductors 2020," with Guest Editors Matthew D. McCluskey (Washington State University) and Anderson Janotti (University of Delaware) as organizers of the

partnering 30th International Conference on Defects in Semiconductors, and several Associate Editors taking care of peer review. My thanks to them and all the others who published a record number of Special Topics in *Journal of Applied Physics* in 2020.

As mentioned previously,<sup>1</sup> Special Topics are now assembled as virtual Collections, so each manuscript is published upon acceptance and collected online. This contributes to the need of publishing in a timely fashion. Indeed, we recognize that publishing fast is not just a question for Special Topics but one of the top priorities for all authors. We aim to accelerate the overall process considerably in 2021 and thereby better meet the needs of the community.

In addition to publishing research articles, in 2016 we introduced new publication formats in the way of Invited Perspectives and Invited Tutorials. These invited papers enjoy great popularity in the community as judged by exceptional downloads (on average 1250 downloads per article in the first year of publication) and citations (on average 10 citations per article per year in the first two years after publication). In 2020, *Journal of Applied Physics* introduced yet another type of article: *Methods*. A *Method* article is an original report on an innovative experimental, computational, or theoretical technique in applied physics. Unlike the usual research article, the significance and novelty of the advance is the new or improved method itself, not necessarily the research results. By introducing *Methods*, *Journal of Applied Physics* offers a greater coverage of publication needs.

The ideas for invited and selected content do not only come from Associate Editors but members of the Editorial Advisory Board. The Advisory Board was greatly expanded in 2020 to be more diverse in gender and geography, and now also includes a much greater number of early career members. Clearly, we want to meet the needs of the entire community, and especially listen to what is expected from a large and modern journal.

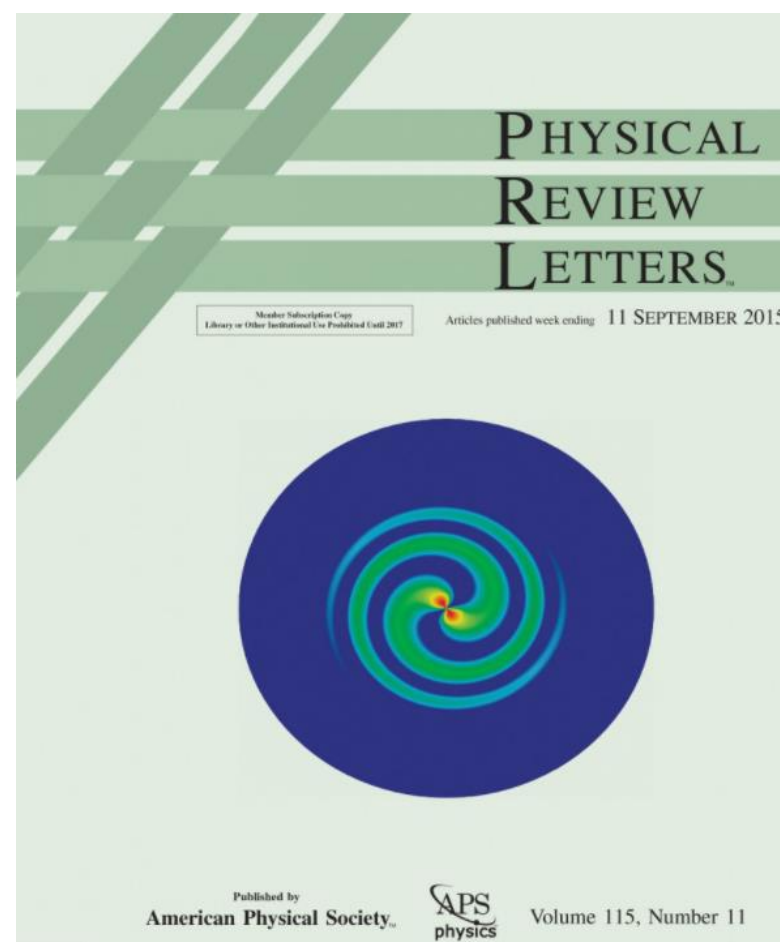
I like to conclude my notes with special thanks to Associate Editors Lian Mao Peng of Peking University, Harsharan Seikath of the University of South Florida, Valentino R. Cooper of Oak Ridge National Laboratory, and Robert C. Birtcher of Argonne National

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# ДОСТУП К ЗАРУБЕЖНЫМ ИЗДАТЕЛЬСКИМ ПЛАТФОРМАМ

## American Physical Society

Volume 126, Issue 10 (partial)  
12 March 2021



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### HIGHLIGHTED ARTICLES

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#### Robust and Efficient High-Dimensional Quantum State Tomography

Markus Rambach, Mahdi Qaryan, Michael Kewming, Christopher Ferrie, Andrew G. White, and Jacqueline Romero  
Phys. Rev. Lett. **126**, 100402 (2021) – Published 10 March 2021

**PhysiCS** Synopsis: Measuring Higher Dimensional "Qudits" for Computation



With a technique called self-guided tomography, we can accurately measure the states of qudits—quantum systems with more than two dimensions.

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#### Traversable Wormholes in Einstein-Dirac-Maxwell Theory

Jose Luis Blázquez-Salcedo, Christian Knoll, and Eugen Radu  
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#### Robust and Efficient High-Dimensional Quantum State Tomography

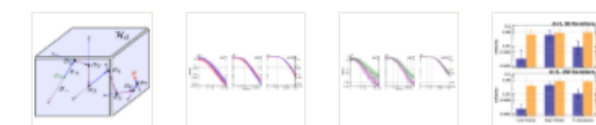
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**PhysiCS** See synopsis: Measuring Higher Dimensional "Qudits" for Computation

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#### ABSTRACT

The exponential growth in Hilbert space with increasing size of a quantum system means accurately characterizing the system becomes significantly harder with system dimension  $d$ . We show that self-guided tomography is a practical, efficient, and robust technique of measuring high-dimensional quantum states. The achieved fidelities are over 99.9% for qutrits ( $d = 3$ ) and 99.1% for ququints ( $d = 5$ ), and 99.1% for quvigints ( $d = 20$ )—the highest values ever realized for qudit pure states. We also show excellent performance for mixed states, achieving average fidelities of 96.5% for qutrits. We demonstrate robustness against experimental sources of noise, both statistical and environmental. The technique is applicable to any higher-dimensional system, from a collection of qubits through to individual qudits, and any physical realization, be it photonic, superconducting, ionic, or spin.



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DOI: <https://doi.org/10.1103/PhysRevLett.126.100402>

PHYSICAL REVIEW LETTERS **126**, 100402 (2021)

Editors' Suggestion Featured in Physics

#### Robust and Efficient High-Dimensional Quantum State Tomography

Markus Rambach<sup>1,2,\*</sup>, Mahdi Qaryan<sup>1,2</sup>, Michael Kewming<sup>1,2</sup>, Christopher Ferrie,<sup>3</sup> Andrew G. White<sup>1,2</sup>, and Jacqueline Romero<sup>1,2,†</sup>

<sup>1</sup>Australian Research Council Centre of Excellence for Engineered Quantum Systems, Brisbane, Queensland 4072, Australia  
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(Received 1 October 2020; revised 12 January 2021; accepted 5 February 2021; published 10 March 2021)

The exponential growth in Hilbert space with increasing size of a quantum system means that accurately characterizing the system becomes significantly harder with system dimension  $d$ . We show that self-guided tomography is a practical, efficient, and robust technique of measuring higher-dimensional quantum states. The achieved fidelities are over 99.9% for qutrits ( $d = 3$ ) and ququints ( $d = 5$ ), and 99.1% for quvigints ( $d = 20$ )—the highest values ever realized for qudit pure states. We also show excellent performance for mixed states, achieving average fidelities of 96.5% for qutrits. We demonstrate robustness against experimental sources of noise, both statistical and environmental. The technique is applicable to any higher-dimensional system, from a collection of qubits through to individual qudits, and any physical realization, be it photonic, superconducting, ionic, or spin.

DOI: 10.1103/PhysRevLett.126.100402

Quantum systems are often naturally high dimensional, and indeed in most quantum information architectures it is necessary to collapse this dimensionality to realize qubits. However, there are many situations where high dimensionality is advantageous. For practical applications like quantum communication, implementing *qudits* rather than qubits brings about higher information capacity [1] and enhanced robustness against eavesdropping [2]. For quantum computation, qudits can lead to efficient distillation of resource states [3] and simplified gates [4]. For quantum foundations, qudits afford more robust violations of Bell [5] and entropic inequalities [6]. Qudits have now been realized in a variety of physical architectures including photon shape [7,8], trapped ions [9,10], superconducting circuits [11,12], and color-center spins [13].

In order to benefit from qudits, we need to be able to physically implement, control, and measure them. Measuring the full quantum state via quantum state tomography is particularly challenging, as the parameter space for qudits grows as  $d^{2n} - 1$ , where  $d$  is the qudit dimension and  $n$  is the number of qudits [14–16]. Alternative methods for state tomography that require fewer measurements have been proposed and implemented, including compressed sensing [17,18] and adaptive [19–21] tomography, but these are still computationally expensive and sensitive to noise and experimental errors. A recent proposal, self-guided quantum state tomography [22] (henceforth referenced as self-guided tomography), offers the promise of high accuracy and precision with fewer measurements, high robustness, and no postprocessing, but has been tested only in low dimension (two qubits,  $d = 4$  [23]), and is untested—particularly in terms of robustness and sensitivity—for systems of high dimensionality.

Here we implement self-guided tomography on three-, five-, and 20-dimensional photon-shape qudits, achieving the highest measurement fidelities ever realized for qudits, from 99.92 $^{+0.04}_{-0.17}$ % for qutrits,  $d = 3$ , to 99.1 $^{+0.2}_{-0.6}$ % for quvigints,  $d = 20$ . We show that in high dimensions self-guided tomography outperforms standard tomography, both in terms of achievable fidelity for the same number of copies of the unknown state and in overcoming errors due to mode-dependent losses, which often prevents standard tomography from converging on the true state. We test the robustness of self-guided tomography against statistical noise and atmospheric turbulence for different dimensionalities, and show excellent agreement between theory

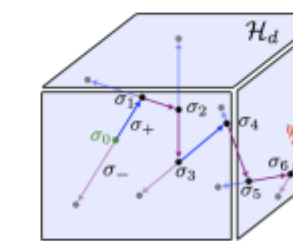


FIG. 1. Schematic representation of self-guided tomography for an arbitrary dimensional qudit in a Hilbert space  $\mathcal{H}_d$ . Starting from  $\sigma_0$  (left, green), we are trying to estimate the unknown state  $\psi$  (right, red). The algorithm calculates two directions,  $\sigma_+$  in blue and  $\sigma_-$  in purple, and determines their projections. The next state  $\sigma_1$  is found by updating  $\sigma_0$  according to Eq. (2). This process is repeated for a set number of iterations with decreasing step size, following the opaque path of highest overlaps, until a final state estimate (here very close to the unknown state  $\psi$ ) is obtained.

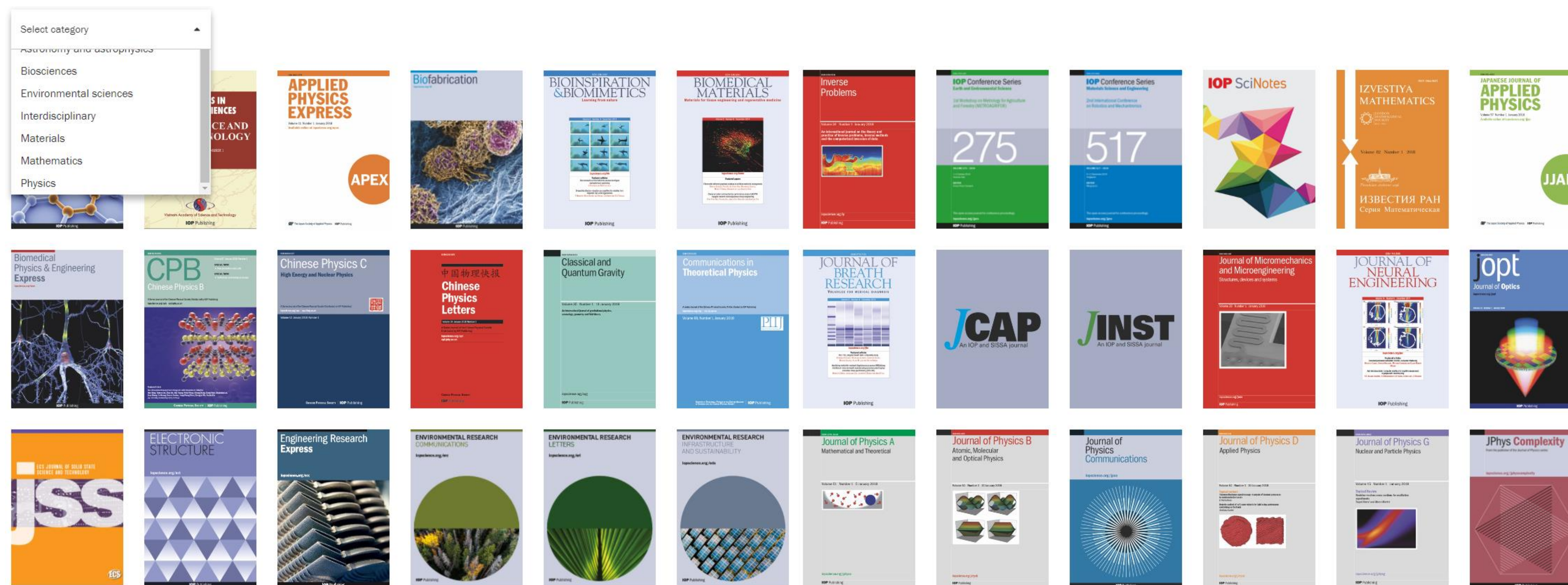
0031-9007/21/126(10)/100402(6)

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**Fabrication and application of nanoporous anodic aluminum oxide: a review**

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### Nanotechnology

TOPICAL REVIEW

## Fabrication and application of nanoporous anodic aluminum oxide: a review

Sixiang Liu<sup>1</sup>, Junlong Tian<sup>3,1</sup> and Wang Zhang<sup>2</sup>

Published 10 March 2021 • © 2021 IOP Publishing Ltd

[Nanotechnology, Volume 32, Number 22](#)

Citation Sixiang Liu *et al* 2021 *Nanotechnology* 32 222001

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### Abstract

Due to the unique optical and electrochemical properties, large surface area, tunable properties, high thermal stability, nanoporous anodic aluminum oxide (AAO) has become one of the most popular materials with a large potential to develop emerging applications in numerous areas, including biosensors, desalination, high-risk pollutants detection, capacitors, solar cell devices, photonic crystals, template-assisted fabrication of nanostructures, and so on. This review covers the mechanism of formation, manufacturing technology, the relationship between the properties of AAO and fabrication conditions, and applications of AAO. Properties of AAO, like pore diameter, interpore distance, wall thickness, and anodized aluminum layer thickness, can be fully controlled by fabrication conditions, including electrolyte, applied voltage, anodizing and widening time. Generally speaking, the pore diameter of AAO will affect its specific application to a large extent. Moreover, manufacturing technology like one/two/multi step anodization, nanoimprint lithography anodization, and pulse anodization also have a major impact on overall array arrangement. The review aims to provide a perspective overview of the relationship between applications and their corresponding AAO pore sizes, systematically. And the review also focuses on the strategies by which the structures and functions of AAO can be utilized.

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Nanotechnology 32 (2021) 222001 (20pp)  
<https://doi.org/10.1088/1361-6528/ab2039>


**Topical Review**

**Fabrication and application of nanoporous anodic aluminum oxide: a review**

Sixiang Liu<sup>1</sup>, Junlong Tian<sup>3,1</sup> and Wang Zhang<sup>2</sup>

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**Abstract**  
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**Keywords:** anodic aluminum oxide (AAO), self-ordering anodization, biosensors, photonic crystals, template, desalination, capacitor

(Some figures may appear in colour only in the online journal)

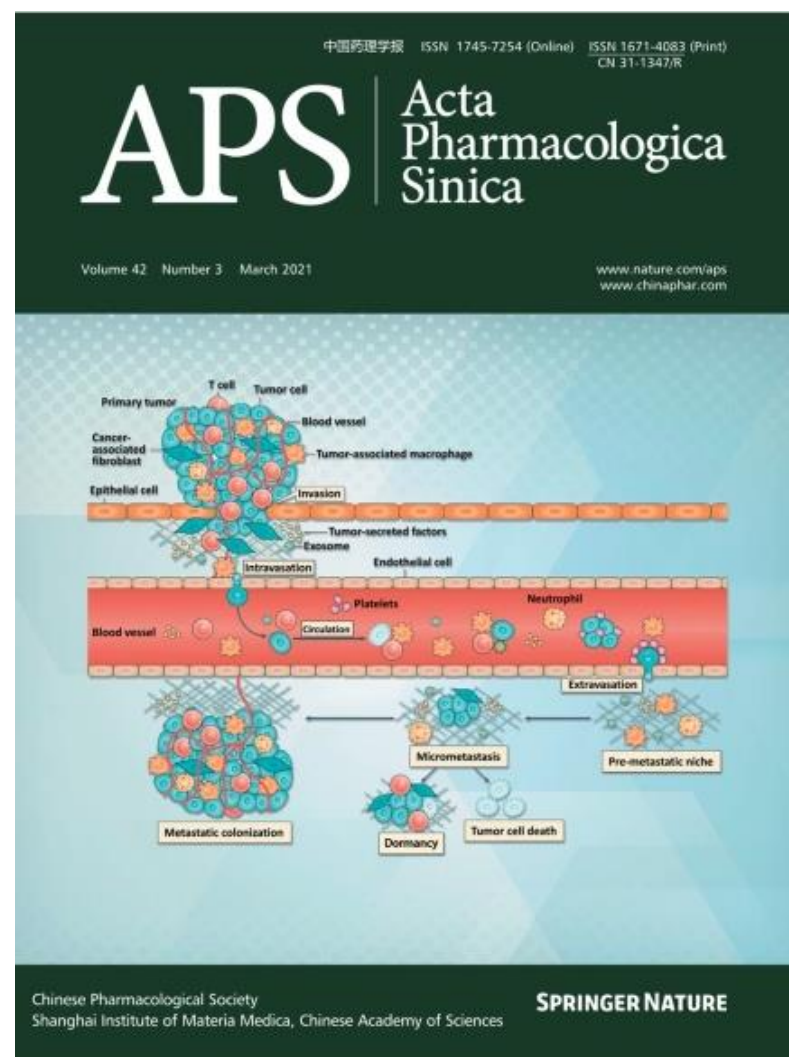
**1. Introduction**  
By some estimates, nanotechnology promises to far exceed the impact of the industrial revolution [1]. Nanomaterials are engineered structures with at least one-dimensional dimensions of 100 nm or less, and are increasingly used for commercial purposes, such as filters, sunscreens, catalysts, semiconductors, cosmetics, microelectronics, and drug carriers [1]. In the past decades, various methods have been developed for the manufacture of nanomaterials, such as photolithography, scanning beam lithography, molding, embossing, and imprinting [2, 3]. However, these techniques are expensive and inherently complex. Due to the features of electrochemical technique like simplicity and inexpensive electrochemical fabrication, nanoporous materials prepared by electrochemical technique have a large potential for emerging applications [4–9]. Nanoporous anodic aluminum oxide (AAO) is one of the most widely used nanomaterials

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# ДОСТУП К ЗАРУБЕЖНЫМ ИЗДАТЕЛЬСКИМ ПЛАТФОРМАМ

## Springer Nature



Volume 591 Issue 7849, 11 March 2021

### Editorial

Editorial | 09 March 2021

#### Nuclear technology's role in the world's energy supply is shrinking

Anniversaries of the Fukushima and Chernobyl disasters highlight the challenges of relying on nuclear power to cut net carbon emissions to zero.

Editorial | 10 March 2021

#### Growing support for valuing ecosystems will help conserve the planet

The idea that ecosystems have monetary value now has global support — and creates a route to protecting Earth's endangered regions.

### World View

World View | 03 March 2021

#### COVID vaccination studies: plan now to pool data, or be bogged down in confusion

Incompatible research designs will obscure essential answers about vaccine effectiveness. It's time to plan together.

Natalie Dean

### Research Highlights

Research Highlight | 04 March 2021

#### Microbial makers help humans to build tough stuff

Researchers enlist bacteria to make a synthetic composite material that is more damage-resistant than its natural counterparts.

Research Highlight | 04 March 2021

#### How long should a conversation last? The people involved haven't a clue

Participants in a tête-à-tête often misjudge when the other person is ready to call it quits.

The international journal of science / 11 March 2021

# nature

## Nuclear power will have a limited role in the world's energy

**The Fukushima and Chernobyl disasters highlight the challenges of relying on nuclear power to cut net carbon emissions to zero.**

**“I**t is not enough to take this weapon out of the hands of the soldiers. It must be put into the hands of those who will know how to strip its military casing and adapt it to the arts of peace.”

These stirring words, spoken in 1953 by then US president Dwight Eisenhower, are worth recalling as the world marks the anniversaries of two devastating tragedies involving nuclear technology: the Fukushima disaster in Japan on 11 March 2011, and the catastrophic accident at Chernobyl in what is now Ukraine on 26 April 1986.

In Japan, some 19,300 lives were lost as a result of an earthquake that occurred off the island of Honshu and the tsunami that followed. The tsunami also swept over the protective sea wall around the Fukushima Daiichi nuclear power plant, and the subsequent flooding led to the partial meltdown of three reactor cores, causing fires and explosions. Twenty-five years earlier, human error resulted in a meltdown at the Chernobyl site, blowing the roof off a nuclear reactor and releasing radiation across Europe.

Today, nuclear power supplies about 10% of the world's energy, down from 13% in 2010. Its use might continue to fall, although it will remain a part of the global energy mix for many decades, with a role in decarbonizing energy supplies as the fossil-fuel age comes to a close.

Successive disasters have depleted the public optimism that accompanied Eisenhower's 1953 address to the United Nations General Assembly. Today, his speech is a reminder that nuclear power shares a common ancestor with weapons of mass destruction. Both of these factors have stymied nuclear energy's great promise as a source of fuel.

New reactors continue to be planned and built — in China and India, for example. But, as the International Energy Agency (IEA) has noted, overall uptake of nuclear energy, especially in high-income countries, is below what it calls its Sustainable Development Scenario. And, set against the falling costs of energy produced from renewable sources such as solar and wind power, it is possible that the demand for nuclear energy will not rebound.

With attention focused on nuclear disasters, it's hard to imagine the enthusiasm with which nuclear energy was once regarded, when it was seen by many as one answer to global energy demand. From the first experimental reactor in 1951, reactors were commissioned at an increasing rate, with 20–30 commissioned almost every year during a peak period between the late 1960s and the end of the 1970s. A fire in 1957 at one of the United Kingdom's power plants, Windscale — later renamed Sellafield — did not impede the global rate of growth.

But that changed after the 1979 disaster at the Three Mile Island plant in Pennsylvania, where a cooling malfunction led to part of a reactor core melting down. Fortunately, that did not lead to any loss of life, but, 7 years later, some 31 people died as a direct result of the Chernobyl disaster. Many more have been affected by the radiation that spread across what was then the Soviet Union, as well as Eastern and Western Europe, but the numbers remain contested. During the Fukushima disaster, up to 50 people sustained non-fatal radiation burns, and one person subsequently died from lung cancer resulting from radiation exposure.

In addition to the deaths and health risks, the cost of the damages caused by Chernobyl is thought to exceed US\$200 billion, and the Japan Center for Economic Research estimates the costs of decontaminating the Fukushima site to be between \$470 billion and \$660 billion. In the wake of the disaster, 12 of Japan's reactors have been permanently shut; a further 24 remain closed pending ongoing safety reviews, which are adding to the costs.

What all of this means is that, on top of construction costs, any country investing in nuclear power must be prepared to set aside — or must have access to — vast sums that can be released in the event of disasters, whether they occur as a result of human error or natural phenomena.

Countries planning to embark on a nuclear-energy programme are also expected to work with the Nuclear Suppliers Group, which oversees nuclear trade for peaceful purposes, and the International Atomic Energy Agency (IAEA). The latter is essential, but the IAEA is not a conventional energy regulator. It monitors and inspects nuclear power plants, but also has the simultaneous job of trying to ensure that a country is not diverting fissile materials for weapons use. That is, in part, because some nations — India and Pakistan, and in all probability Israel — became nuclear powers after originally seeking nuclear technology for research or to develop nuclear power.

**Billion-dollar bill**

Considering the barriers to the adoption of nuclear energy, it is not surprising that much of the nuclear energy generated around the world is produced by nuclear-weapons states. Most countries will balk at the idea of setting up a nuclear power plant if the total bill could run to hundreds of billions of dollars.

By contrast, although renewable-energy technologies are still in their relative infancy, their costs are falling and their regulation is much more straightforward. This is important: the technology used to turn on lights or charge mobile phones shouldn't need to involve national or international defence apparatus.

Clearly, nuclear energy will be with us for some time. New plants are being built and older ones will take time to decommission. But it is not proving to be the solution it was once seen as for decarbonizing the world's energy market. Nuclear power has benefits, but its continued low take-up

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## Science



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Science 05 Mar 2021:  
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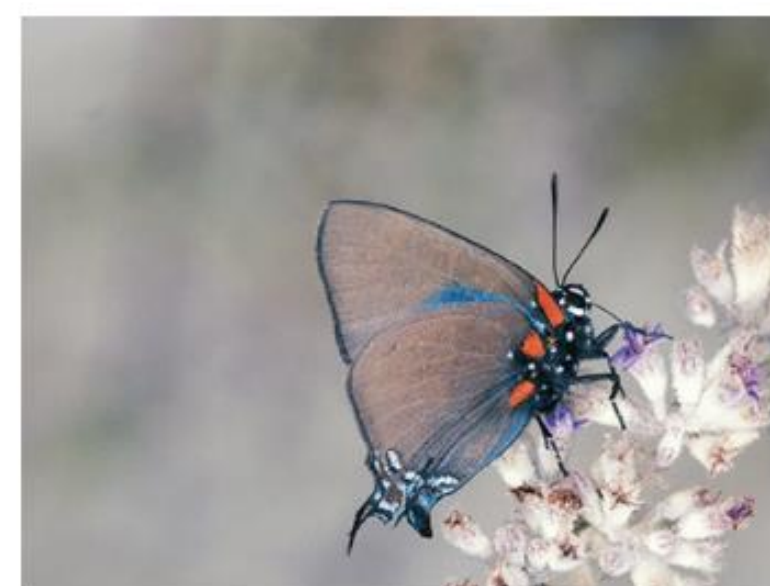
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INSECT DECLINES

### Warming autumns, fewer butterflies

Sacha Vignieri

Many recent studies have revealed sweeping declines in insects over the past few decades. Butterflies are no exception. Forister *et al.* used three different datasets, collected by both experts and community scientists, and found that the number of butterflies has declined over the past 40 years. Although the drivers of decline are complex, the authors found that climate change—in particular, warmer months in the autumn—explain a large portion, even as warming summers actually lead to increases. This work shows that climate change impacts may be insidious and unexpected in their effects.



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Butterflies such as the great purple hairstreak, *Atlides halesus*, are in decline in the warming American West according to community surveys.

PHOTO: JEFFREY GLASSBERG/NORTH AMERICAN BUTTERFLY ASSOCIATION

Science, this issue p. 1042

**Science**  
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05 March 2021

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## RESEARCH

Edited by Michael Funk

**IN SCIENCE JOURNALS**

**INSECT DECLINES**  
Warming autumns, fewer butterflies

Many recent studies have revealed sweeping declines in insects over the past few decades. Butterflies are no exception. Forister *et al.* used three different datasets, collected by both experts and community scientists, and found that the number of butterflies has declined over the past 40 years. Although the drivers of decline are complex, the authors found that climate change—in particular, warmer months in the autumn—explain a large portion, even as warming summers actually lead to increases. This work shows that climate change impacts may be insidious and unexpected in their effects. —SNV Science, this issue p. 1042

Butterflies such as the great purple hairstreak, *Atlides halesus*, are in decline in the warming American West according to community surveys.

**METALLURGY**  
A two-stage lightweighting

Dealloying allows voids to be created in metals, decreasing the weight of the material. However, when the solid fraction is below about 30%, the mechanical properties rapidly degrade. Shi *et al.* discovered that two dealloying steps allow for the creation of a silver-gold alloy with a solid fraction as low as 12%. Unexpectedly, this process does not degrade the mechanical properties while allowing for large samples to be synthesized. The strategy should be applicable to other alloy systems, providing a pathway for creating strong and lightweight materials. —BG Science, this issue p. 1026

**EXOPLANETS**  
A transiting rocky planet 8 parsecs away

Most exoplanets have been detected using either the radial velocity (RV) method or the transit method, which provide only limited information on the planet's physical properties. In the rare cases in which both methods detect the same planet, the combination determines the planet's mass, radius, and density. Trifonov *et al.* identified a planet, Gliese 486 b, using both RV and transit data. The host star is a red dwarf only 8 parsecs away, making this one of the closest exoplanet systems known. A rocky super-Earth, Gliese 486 b has an equilibrium surface temperature of 700 kelvin. The authors say that it is observationally favorable for searches for an atmosphere. —KTS Science, this issue p. 1038

**SPECTROSCOPY**  
Electron dynamics in time and space

Following molecular excitation and electron transfer processes in time and space within a single experiment is a long-standing goal of spectroscopy in the field of chemistry. Wallauer *et al.* combined tomographic photoemission imaging with a femtosecond pump-probe scheme to trace the excited state molecular orbitals of surface-adsorbed molecules with both spatial and temporal resolution. The present demonstration opens a new window for investigating the ultrafast electron transfer dynamics in such processes as chemical reactions on surfaces and intermolecular charge transfers. —YS Science, this issue p. 1056

**MICROBIOLOGY**  
Phenazines liberate phosphate

Bacteria secrete a wide range of small molecules with chemical reactivity that offers multiple functions in different contexts. Phenazines are commonly considered to be antibiotics, but they can also participate in environmental redox reactions, especially with iron. McRose and Newman found that phenazines,

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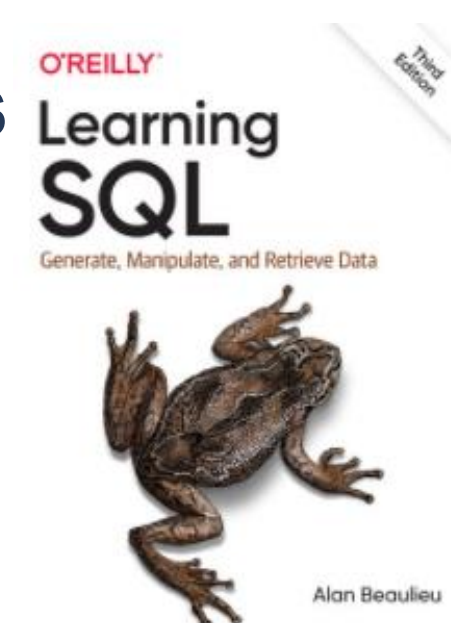
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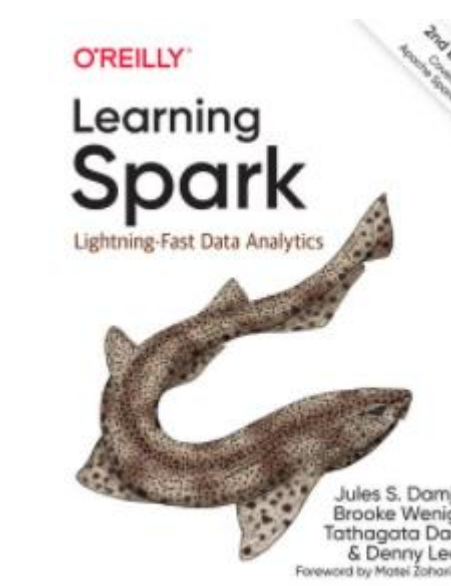
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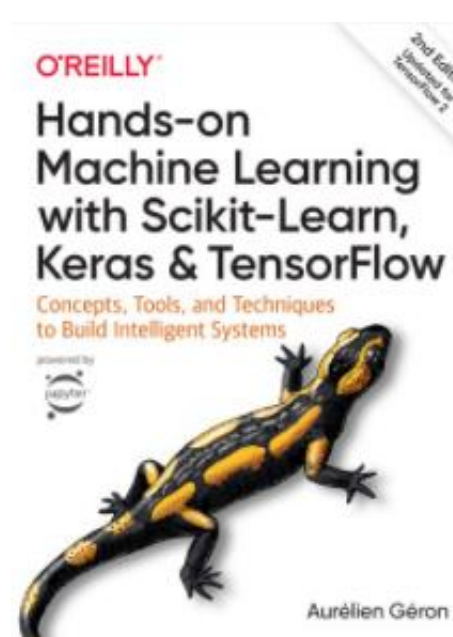
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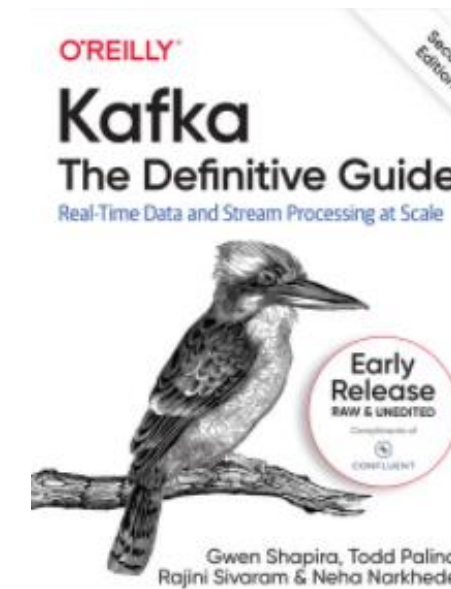
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by Martin Kleppmann

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ISBN: 9781449373320

Topic: Data Engineering

### Chapter 1. Reliable, Scalable, and Maintainable Applications

*The Internet was done so well that most people think of it as a natural resource like the Pacific Ocean, rather than something that was man-made. When was the last time a technology with a scale like that was so error-free?*

—Alan Kay, in interview with Dr. Dobbs's Journal (2012)



### Chapter 2. Data Models and Query Languages

*The limits of my language mean the limits of my world.*

—Ludwig Wittgenstein, *Tractatus Logico-Philosophicus* (1922)



Data models are perhaps the most important part of developing software, because they have such a profound effect: not only on how the software is written, but also on how we think about the problem that we are solving.

Most applications are built by layering one data model on top of another. For each layer, the key question is: how is it represented in terms of the next-lower layer? For example:

1. As an application developer, you look at the real world (in which there are people, organizations, goods, actions, money flows, sensors, etc.) and model it in terms of objects or data structures, and APIs that manipulate those data structures. Those structures are often specific to your application.
2. When you want to store those data structures, you express them in terms of a general-purpose data model, such as JSON or XML documents, tables in a relational database, or a graph model.
3. The engineers who built your database software decided on a way of representing that JSON/XML relational/graph data in terms of bytes in memory, on disk, or on a network. The representation may allow the data to be queried, searched, manipulated, and processed in various ways.

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Petr MALEČEK

Acta Oeconomica  
Vol. 65, No. 4 (December 2015), pp. 525-545 (21 pages)  
Published by: Akadémiai Kiadó

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ABSTRACT  
This study examines the causes of the rather dissimilar development of individual EU economies after the 2008/09 crisis. The initial elemental analysis of contributions to GDP growth is followed by a growth accounting exercise, with decomposition into the effects of movements in total factor productivity, capital stock, and several labour market indicators. The subsequent section then seeks

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Academic Journal

THE EFFECT OF WORKING CAPITAL MANAGEMENT ON FIRM PERFORMANCE: AN EMPIRICAL RESEACRH ON BORSA İSTANBUL STAR INDEX. By: ERBUL, Mert; ÖZDEMİR, Fevzi Serkan. Omer Halisdemir Universitesi İktisadi ve İdari Bilimler Fakültesi Dergisi. 2021, Vol. 14 Issue 1, p335-348. 14p. Language: Turkish. DOI: 10.25287/ohuibf.820727.

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**Authors:** [ERBUL, Mert<sup>1</sup>](#) merterbul57@hotmail.com  
[ÖZDEMİR, Fevzi Serkan<sup>2</sup>](#) fsozdemir@gmail.com

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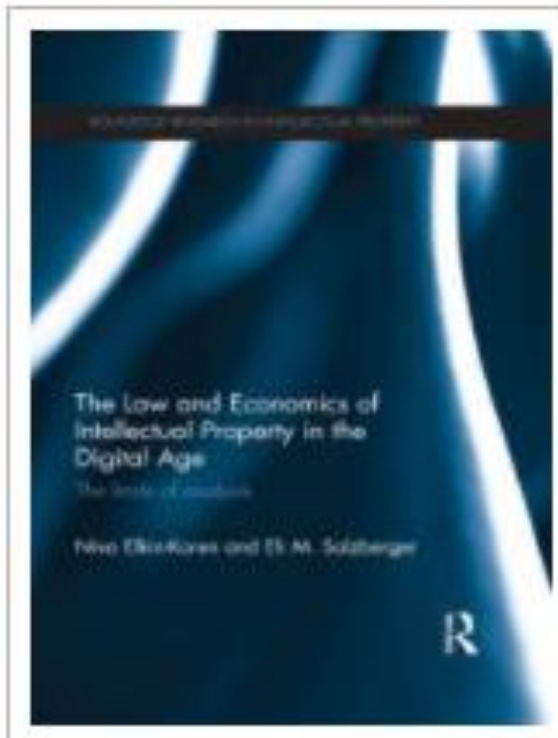


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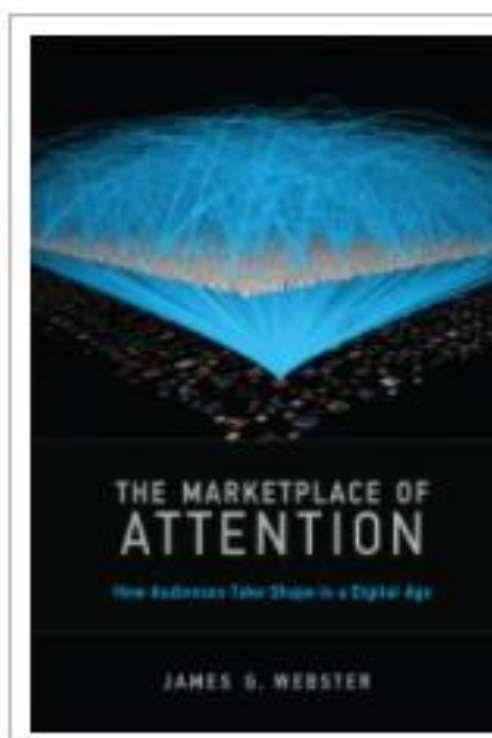
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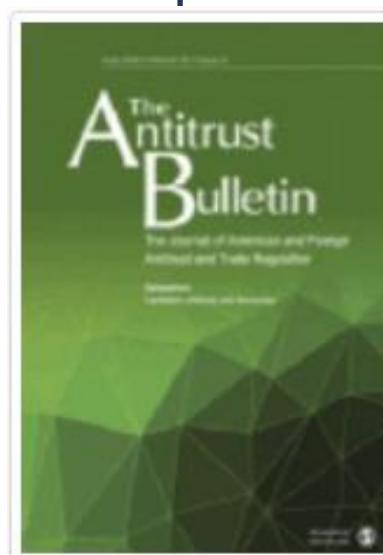
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- 7 Public Attention in the Marketplace of Ideas

+

**PREFACE**

When I finished my bachelor's degree in psychology I needed to find work. Although I was interested in media, I wasn't really qualified to do anything. Nevertheless, I stumbled into a job in audience research at Children's Television Workshop. At the time, the Workshop produced *Sesame Street* and *The Electric Company* and was celebrated for blending information with entertainment. Flushed with their success in children's television, the Workshop decided to produce a health show for adults that would revolutionize the nation's health practices the way *Sesame Street* had revolutionized the way kids learned their ABCs. I was hired to study viewer reactions to the new program.

That show, called *Feeling Good*, premiered in prime time opposite a lineup of expensively produced network television programs. From day one, there were problems. Most notably, very few people watched *Feeling Good*, and those who did already knew what the show had to teach them. *Feeling Good* lasted for one tortuous season, but it left me with a question I've been thinking about ever since. How do audiences take shape?

That question seems more pressing today than at any time in the past. Digital media present people with many ways to spend their time. They can choose among an endless number of outlets, ranging from the broadcast networks that denied *Feeling Good* a prime-time audience to websites of every imaginable kind. They can create their own media. They can share anything that's digital with friends or strangers around the world. But how do people actually use all these newfound resources, and why do they coalesce around some things and not others?

There is a broad consensus that the way people allocate their attention will go a long way toward determining digital media's social impact. But there are wildly different expectations about how audiences will take

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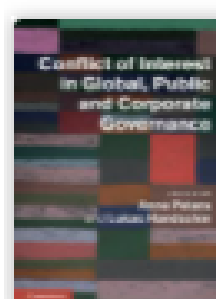
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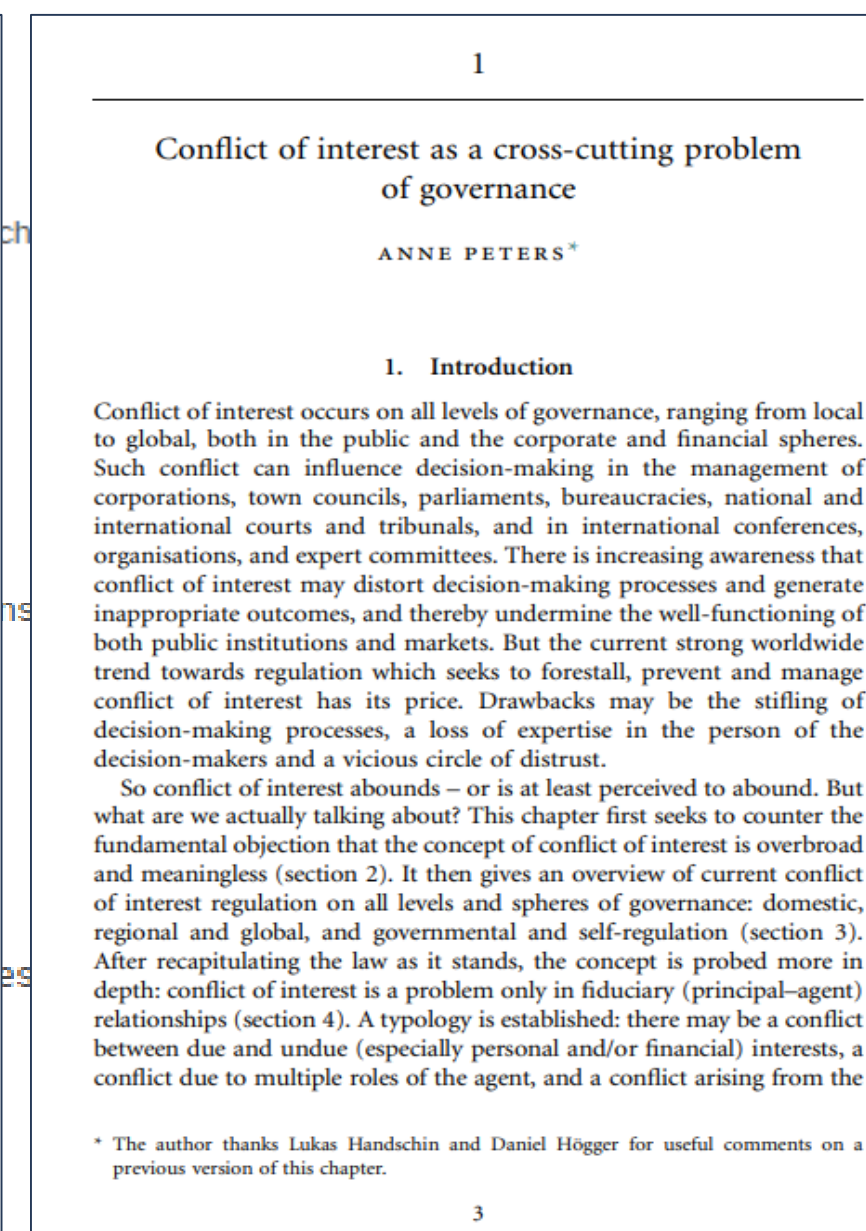
Cambridge: Cambridge University Press, Nov 29, 2012.

Conflict of interest occurs at all levels of governance, ranging from local to global, and in a wide variety of contexts. This book provides a comprehensive overview of the concept of conflict of interest, its nature and scope, and the ways in which it can be managed and avoided.

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Abstract

Translate

The purpose of this exploratory, qualitative study was to explore the opinions of Turkish citizens toward the government's communication strategy during the COVID-19 pandemic amidst the Syrian refugee crisis. The study depended on the participants living in metropolitan areas in the Republic of Turkey. The study identified four thematic categories emerged to answer research question. The four categories were: (1) economic status, (2) health broadcasts (vital link, misinformation), (3) associated imperfect knowledge gaps and bias, and (4) short-term and long-term government communications but long-term government communications failed to explore research may help Turkey's internal communication policies.

Details

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A Dissertation Presented in Partial Fulfillment of the Requirements for the Degree of Doctor of Management

by Angela Honeycutt

Colorado Technical University

September 2020

Chapter 1

Countless voices expressing opinions on the 2020 coronavirus pandemic received significant attention as the flow of capital and goods decreased across the globe (World Health Organization, 2020b). The World Health Organization (2020a) broadcasted the unthinkable theme of 2020 with a new Public Health Emergency of International Concern announcement, released on January 30, 2020, called COVID-19 (also known as the coronavirus) which described an invisible enemy about to wreak havoc throughout the world. Khan and Karataş (2020) claimed that two months later, on March 19, 2020, more than 160 countries reported COVID-19 cases. As of July 2020, there were more than 10 million recorded cases worldwide, and more than 500,000 deaths confirmed spread across at least 216 countries, territories, and other areas (O'Connor & Evans, 2020; Zhou, Bao & Ning, 2020; World Health Organization, 2020b).

The COVID-19 pandemic has brought catastrophic uncertainty on a global scale. As consumers, investors, and international trading partners became more aware, the disease spread exponentially (Alyanak, 2020; Ozili & Arun, 2020). Kenyon (2020) claimed governments use pandemics to expand executive power and restrict individual rights, citizen mobilization, civilian control of militaries, and gain control in the electoral process. As an example, the coronavirus forced governments to quickly change management processes to proactively combat a potential



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**Date:** Dec. 16, 2020 **From:** American City & County **Publisher:** Penton Media, Inc., Penton Business Media, Inc. and their subsidiaries **Document Type:** Article **Length:** 889 words

Full Text: [Byline: Jason Axelrod](#)

The COVID-19 pandemic has caused many governments to struggle as they seek to balance critical public health concerns along with the needs of small businesses and the broader economy. At least part of that challenge can be traced back to governments' historical reliance on traditional economic data, which has not provided enough information at the necessary speed for policymakers to respond nimbly to economic shocks. It's been a wakeup call but also an opportunity for improvement.

For public officials, the last several months have underscored the significant benefits of implementing sources of spending trends, broad consumer behavior and more delivered more rapidly than traditional economic indicators/data. David Wilcox, who led the Federal Reserve's research and statistics division from 2011 to 2018 and is now a senior fellow at the Peterson Institute for International Economics, told Bloomberg in September that new sources of data are proving to be "extremely valuable for a whole range of decision makers including monetary policy makers at the Federal Reserve," and it's "clearly the wave of the future." Jerome Powell, Chairman of the Federal Open Market Committee, said in a July press conference, "What we think of as non-standard, high-frequency data has become a very important thing."

Understanding different types of economic trends data

Traditional data: A type of structured data that is stored in a fixed format and gathered and released annually, quarterly, monthly, etc. Examples include publicly filed corporate documents and government collected statistics. New data sources: A type of data that comes in large, aggregated, user-permissioned and de-identified sets. It is often updated frequently, or in real-time, and therefore also known as high-frequency data. Examples include real-time measurements of traffic congestion, restaurant reservations, and credit card spending.

The value of providing a real-time assessment

The COVID-19 pandemic has exposed the need for policymakers to embrace new data analytics sources that help quickly assess and analyze areas critical to their constituents such as healthcare, public safety, education, jobs and the economy. Understandably, some governments may be hesitant to utilize new sources of user-permissioned data due to a lack of historical data for comparison, the reliability of readings or the potential for unauthorized access. But traditional data simply doesn't provide sufficient timeliness, breadth or diversity of coverage or economic insight in the face of such unprecedented volatility and uncertainty.

The Federal Reserve's Senior Associate Director John Stevens believes that new sources of data should be used to:

- Create timely alternative estimates that complement official estimates
- Verify changes in official statistics
- Answer questions that require more granular data analytics
- Fill knowledge gaps

How is government using new sources of consumer-permissioned data?

It's nearly impossible to avoid leaving a digital trace these days. With their consent, consumers are allowing the collection of new sources of de-identified data, for everything from internet searches to grocery purchases with a credit card is now analyzed for insight. With these rich, de-identified datasets, consumers are contributing to a wealth of aggregated data. The financial services industry has processed and used this kind of de-identified data to make decisions for years and governments are finally following in their footsteps.

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### Simple Power Analysis against RSA Based on Frequency Components

주파수 분석 기반 RSA 단순 전력 분석

Ji-hyuk Jung(고려대학교), Ji-Won Yoon(고려대학교)  
[Korea Institute Of Information Security And Cryptology](#)  
 Journal of the Korea Institute of Information Security & Cryptology | Vol.31 No.1 | 2021.02  
 1 - 9 (9 pages) | KCI Accredited Journal

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#### Abstract

본 논문은 RSA 복호화 과정에서 발생한 전력 신호로부터 암호연산을 예측하는 과정을 주파수 분석과 K-means 알고리즘을 이용하여 자동화하는 것을 제안한다. RSA 복호화 과정은 제곱 연산과 곱셈 연산으로 나뉘며, 시간에 따른 연산의 종류를 예측하게 되면, RSA 암호의 키(key)값을 알 수 있게 된다. 본 논문은 복호화 과정 발생한 전력 파형을 2차원 주파수 신호로 변환한 후, K-means algorithm을 이용하여 연산의 종류에 따라 주파수 벡터를 분류하였다. 이후, 이러한 분류된 주파수 벡터를 이용하여 연산의 종류를 예측한다.

This paper proposes to automate the process of predicting crypto-operations from the power signal generated in RSA decoding process by frequency analysis and K-means algorithm. RSA decoding process is divided into square and multiply operation, and if we can predict the type of operations over time, we will know the RSA key value. After converting the power signal generated in the process of decoding into two-dimensional frequency signal, this paper used K-means algorithm to classify the frequency vector according to the type of operation. these classified frequency vector were used to predict the types of operations.

#### Contents

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## 주파수 분석 기반 RSA 단순 전력 분석\*

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### Simple Power Analysis against RSA Based on Frequency Components\*

Ji-hyuk Jung,<sup>1\*</sup> Ji-Won Yoon<sup>2\*</sup>  
<sup>1,2</sup>Korea University, School of Cyber Security(Graduate student, Professor)

요약

본 논문은 RSA 복호화 과정에서 발생한 전력 신호로부터 암호연산을 예측하는 과정을 주파수 분석과 K-means 알고리즘을 이용하여 자동화하는 것을 제안한다. RSA 복호화 과정은 제곱 연산과 곱셈 연산으로 나뉘며, 시간에 따른 연산의 종류를 예측하게 되면, RSA 암호의 키(key)값을 알 수 있게 된다. 본 논문은 복호화 과정 발생한 전력 파형을 2차원 주파수 신호로 변환한 후, K-means algorithm을 이용하여 연산의 종류에 따라 주파수 벡터를 분류하였다. 이후, 이러한 분류된 주파수 벡터를 이용하여 연산의 종류를 예측한다.

ABSTRACT

This paper proposes to automate the process of predicting crypto-operations from the power signal generated in RSA decoding process by frequency analysis and K-means algorithm. RSA decoding process is divided into square and multiply operation, and if we can predict the type of operations over time, we will know the RSA key value. After converting the power signal generated in the process of decoding into two-dimensional frequency signal, this paper used K-means algorithm to classify the frequency vector according to the type of operation. these classified frequency vector were used to predict the types of operations.

주요어: RSA, Side Channel Analysis, Automate, K-means

논문

본 논문은 암호 장치 내부에서 연산하는 과정 나오는 전력이나 전자기파와 같은 물리적인 신호 수집하여 암호의 연산 종류나 비밀키 등을 예측하는 방법이다. 암호 알고리즘에 따라 다양한 부채널 공격이 소개되었고, 대표적으로 Correlation Power Analysis (CPA), Differential Power Analysis (DPA), Simple Power Analysis (SPA) 등이 있다[1-4]. CPA나 DPA의 경우 해밍 무게(Hamming weight)와 전력 소비 모델에 기반하여, 측정된 전력 값과 연산값 사이의 수학적인 선형 관계에 따라 추정하기 때문에 많이 명확한 분석 방법들이 잘 알려져 있는 반면에, SPA는 연산의 시계열 패턴을 보고 그 시간에 어떠한 연산이 일어났는지를 구분하여야 하기 때문에 더 복잡하고 정교한 추론 기법이 필요하다. 일례로 가장 보편적으로 사용되는 공개키 암호 알고리즘인 RSA 암호에서 제곱(Square) 연산과 곱셈(Multiply) 연산에서 유출되는 전력 신호 패턴이 다르다는 것을 이용하여 (SPA) 제곱 연산과 곱셈 연산을 유추한 후, 해당하는 이진수로 변환하여 복호화 키를 추출하였다

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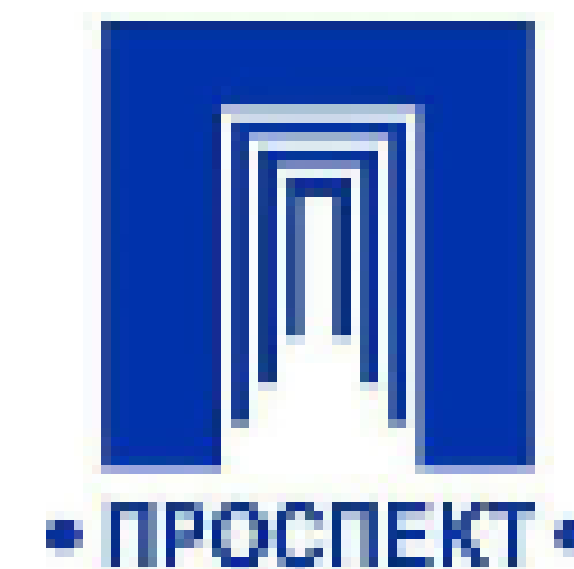
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2. The *eigenvectors* of a square matrix  $A$  are those special vectors  $x$  such that  $Ax = \lambda x$ , where  $\lambda$  is a constant  $\lambda$  which is called the *eigenvalue* belonging to  $x$ .
3. Two non-zero vectors are called *orthogonal* if their *dot product* is zero.<sup>[7]</sup> If each time series of returns on a financial asset then the two series of returns are *uncorrelated* if their vectors are orthogonal.
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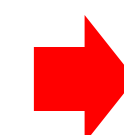
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Учебное пособие

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Читайте



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Москва: ВШЭ, 2020 г., 240 с.



Читайте

**ПОЛИТИЧЕСКАЯ ЭКОНОМИЯ ИНФОРМАЦИОННО-КОММУНИКАЦИОННЫХ ТЕХНОЛОГИЙ**

**МЕСТО РОССИИ НА ГЛОБАЛЬНОМ РЫНКЕ**

А.Н. Терехов  
С.Л. Ткаченко

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# ДОСТУП К ВЕДУЩИМ ОТЕЧЕСТВЕННЫМ РЕСУРСАМ

## Public.Ru

The screenshot shows the Public.Ru search results page for the query "Экономические последствия Covid-19". The page displays a list of search results, with the first result selected. An "ЭКСПОРТ" (EXPORT) dialog box is open, showing options for the export format (RTF, MS Word, PDF, XML, MS Excel) and various parameters. A sidebar on the right shows the selected sources for the export, including "Библиотеки Public.ru" and "Мои наборы источников".

**Запрос: Экономические последствия Covid-19**

public.ru Новости Поиск Папки Каталог источников Читальный зал Поддержка

Запрос Результаты поиска 126 126 Медиастатистика

Документов: всего 126, непрочит.: 126, отмеч.: 2, Источников

1 2 все непрочит. отмеч. таблица список

1  №11, 17.03.2021

МЕСТО УКОЛА Привиться от COVID-19 можно в столичных ТЦ с. 11

...В 1990-е к тому же многие боялись рожать из-за неблагоприятной экономической ситуации. Но уже 20 лет мы живём относительно стабильно, без... МНОГИЕ ИЗ ТЕХ, КТО ВСТРЕТИЛСЯ С ЧУДОВИЩЕМ ПО ИМЕНИ COVID-19, С ПОМОЩЬЮ МЕДИКОВ СМОГЛИ ЕГО ПОБОРОТЬ. НО ЗАВЕРШАЕТСЯ ЛИ НА...  
...Семашко Санкт-Петербурга Виталий Ковальчук. – Также одним из наиболее частых последствий COVID-19 является чрезвычайно сильная астения, выраженность и длительность которой не...

2  Год, которого не было

...работать. И российский юридический рынок справился - настолько, что текущий экономический кризис пока подействовал на него не слишком сильно. По словам... До пандемии COVID-19 юристы скептически относились к формату дистанционной работы, но 2020 год...  
...интересов участников цифровых рынков. Другим интересным отраслевым направлением стал международный экономический комплаенс, в рамках которого ART DE LEX структурирует сделки с...  
...контроля за иностранными инвестициями, по вопросам ценообразования, тарифного регулирования, закупок, экономических заключений, дел...

3  «Право сужается, как шагреневая кожа»

...вы считаете, с чем это связано? И каковы возможные последствия для отрасли, может ли такая тенденция свидетельствовать о грядущем изм...  
...частично перестроить его на зеленые «рельсы». Никуда не исчезли и экономические риски, связанные с пандемией COVID-19 и возможным...

4  Уязвимость активов в эпоху кризиса

Оценивать, каким образом российская экономика пережила пандемию COVID-19 и решения, которые государство принимало для ее спасения, к...  
Последствием установления контролируемого банкротства является проведение контролируемых торгов - в этом...  
...Для того чтобы предотвратить масштабный передел собственности после ликвидации пандемии COVID-19, необходима соответствующая под...  
Однако очевидное последствие отмены моратория, за которым мы, вероятно, будем наблюдать в ближайшее...

**ЭКСПОРТ**

Формат экспорта

RTF  MS Word  PDF  XML  MS Excel

Включать полные тексты документов

При экспорте будет списана стоимость всех отмеченных документов, за исключением уже просмотренных в рамках текущей сессии.

Параметры экспорта

Вставить «Портрет выборки»

Вставить оглавление

Вставить графические изображения

Вставить информацию о тональности и рейтинге

Выделить цветом хиты в документах

Пронумеровать статьи

Отмена Экспорт

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- Центральные информагентства
- Региональные печатные СМИ
- Региональные информагентства
- Пресса ONLINE
- Интернет-ресурсы
- Интернет СМИ
- Интернет Government
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- Дагестан СМИ
- ДАГЕСТАН\_СИРИЯ
- Для пр
- Столица Казахстан (РК СМИ)
- Столица Казахстана (РФ СМИ)
- татарстан
- ТАТАРСТАН\_СИРИЯ
- Телеканалы 101
- Центр
- Центральные каналы
- Центральные СМИ
- ЧЕЧНЯ\_СИРИЯ

Каталог источников

# ДОСТУП К СПЕЦИАЛИЗИРОВАННЫМ БАЗАМ ДАННЫХ

## Factiva (Dow Jones)

The screenshot displays the Factiva search interface. At the top, a search bar contains the query "Economic impact of Covid-19" with filters for "DATE: In the last week" and "SOURCE: All Publications Or All Web N...". Below the search bar, there are tabs for "Dow Jones (7)", "All (223)", "Publications", "Web News (79)", "Blogs (0)", and "Pictures (0)". A sidebar on the left shows "Subjects" and "Industries" with various categories and counts. The main content area lists search results, with the fourth result, "Pandemic: One year later" from The Toronto Star, highlighted by a red arrow. A red box highlights the full text of this article, which includes the title, author (Alex Ballingall), date (17 March 2021), and a summary of the article's content. To the right of the main content area, there is a "Subject" filter section with a dropdown menu set to "All Subjects" and a list of subject categories.

**Запрос: Economic impact of Covid-19**

Предметные области

# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Доступ к реферативным базам и базам данных научного цитирования

**EndNote** Essential Science Indicators

Journal Citation Reports **Master Journal List**

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**Web of Science**<sup>TM</sup>



**SJR**  
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**zbMATH** Open  
THE FIRST RESOURCE FOR MATHEMATICS

# ПОДХОДЫ К ПОИСКУ НАУЧНОЙ ЛИТЕРАТУРЫ

1. Поиск статей и книг по ключевым словам;
2. Ассоциативный поиск — по связям между документами (цитированиям, ссылкам, схожим документам и темам);
3. Поиск по журналам;
4. Поиск по книгам;
5. Поиск по ученым;
6. Рекомендательные алгоритмы, встроенные в бесплатные менеджеры статей (Mendeley и другие).

# ДОСТУП К БАЗАМ ДАННЫХ НАУЧНОГО ЦИТИРОВАНИЯ

## Web of Science

The screenshot displays the Web of Science search interface. At the top, there are navigation links for 'Search', 'Marked List', 'History', and 'Alerts', along with language and user options. The main search area shows a search query for 'Economic statistics (Topic) or EVANS (Author)' with 161,563 results. The interface includes a search bar, a search button, and options to analyze results, generate a citation report, or create an alert. Below the search bar, there are tabs for 'DOCUMENTS', 'AUTHORS', and 'CITED REFERENCES'. The search results are displayed in a list format, with the first two results highlighted. The first result is 'Measuring the Past: Free Digitized Sources of Historical International Economic Information' by Evans, KJ and Welch, JM, published in 2014 in the Journal of Business & Finance Librarianship, with 54 references. The second result is 'The Development and Reform of Social-economic Statistics Education' by Luo, LQ, published in 2012 in the Education And Education Management journal, with 9 references. The interface also includes a 'Refine results' section with various filters such as 'Highly Cited Papers', 'Hot Papers', 'Review Articles', 'Early Access', and 'Open Access', and a 'Publication Years' filter.

34 тыс. журналов (12171 с импакт-фактором)  
254 категории, больше 180 млн документов на 130 языках  
более 80 млн патентов

# ДОСТУП К БАЗАМ ДАННЫХ НАУЧНОГО ЦИТИРОВАНИЯ

Web of Science. Что индексируется в Web of Science Core Collection

Что процитировано

Где цитируется данная публикация

**статья**

**What's New in Web of Science**

**Abstract**  
The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) emerged in the new pathogenic agent of the rapidly spreading pneumonia called coronavirus disease 2019 (COVID-19). SARS-CoV-2 infects many people, especially the older population, around the world. In addition, coinfections, such as SARS-CoV-2 and MERS-CoV, which is challenging current global public health systems. However, the pathogenesis of SARS-CoV-2, microbial coinfection along an important role in its occurrence and development of SARS-CoV-2 infection by taking the diffusion of diagnosis, treatment, prognosis of COVID-19, and more concerning the disease symptoms and mortality. We summarize the coinfection of virus, bacteria and fungi with SARS-CoV-2, their effects on COVID-19, the reasons of coinfection, and the diagnosis and prognosis. The importance of microbial coinfection in COVID-19.

**Key points**

- Microbial coinfection is a complex phenomenon in COVID-19.
- Microbial coinfection impacts the process of the occurrence, development and prognosis of COVID-19, and the prognosis of clinical diagnosis and treatment.
- Different virus, bacteria, and fungi coinfection in the coinfection with SARS-CoV-2.

**Keywords** SARS-CoV-2 • COVID-19 • coinfection • Microbiology

**Introduction**  
The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is a novel member of the beta-coronavirus group. It was first identified in Wuhan, Hubei, China, in January 2020. It has caused a global pandemic, with clinical symptoms different from known coronavirus-related pneumonia, such as SARS-CoV and MERS-CoV.

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**Categories/Classification**  
Research Areas: Biotechnology & Applied Microbiology

**Funding**  
Funding agency Grant number

# ДОСТУП К БАЗАМ ДАННЫХ НАУЧНОГО ЦИТИРОВАНИЯ

## Web of Science

Analyze Results  
161,563 publications selected from Web of Science Core Collection

Web of Science Categories

Sort by: Results count | Show: 25 | Minimum record count: 1

Visualization: TreeMap Chart | Number of results: 10

6,279 Medicine General Internal	4,916 Chemistry Multidisciplinary	4,431 Economics	4,232 Surgery
5,972 Oncology	4,671 Public Environmental Occupational Health	4,135 Engineering Electrical Electronic	
5,864 Biochemistry Molecular Biology	4,644 Astronomy Astrophysics	4,018 Multidisciplinary Sciences	

64 results from Web of Science Core Collection for:  
Economic statistics (Topic) or EVANS (Author)

Refined by: Web of Science Categories: Economics | Document Types: Review Articles | Clear all

Copy query link

Refine results

Search within results for...

Quick Filters

- Highly Cited Papers: 1
- Review Articles: 64
- Open Access: 17

Publication Years

- 2020: 1
- 2019: 11
- 2018: 6
- 2017: 3
- 2016: 2

See all

Document Types

- Review Articles: 64
- Book Chapters: 1

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O'Neill, Robert

**Article**  
Teaching Index Numbers to economists

Cogent Economics & Finance

Provided in Cooperation with:  
Taylor & Francis Group

Suggested Citation: O'Neill, Robert (2015) : Teaching Index Numbers to economists, Cogent Economics & Finance, ISSN 2332-2039, Taylor & Francis, Abingdon, Vol. 3, Iss. 1, pp. 1-10, <http://dx.doi.org/10.1080/23322039.2015.1115625>

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# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

## Ассоциативный поиск (связи между документами)

### The sensation of groove engages motor and reward networks

Автор: Matthews, TE (Matthews, Tomas E.)<sup>[1]</sup>; Witek, MAG (Witek, Maria A. G.)<sup>[2]</sup>; Lund, T (Lund, Torben)<sup>[3]</sup>; Vuust, P (Vuust, Peter)<sup>[4,5]</sup>; Penhune, VB (Penhune, Virginia B.)<sup>[1]</sup>

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#### NEUROIMAGE

Том: 214

Номер статьи: 116768

DOI: 10.1016/j.neuroimage.2020.116768

Опубликовано: JUL 1 2020

Тип документа: Article

[Просмотреть Impact Factor журнала](#)

#### Ключевые слова

KeyWords Plus: BASAL GANGLIA; MUSICAL RHYTHM; HUMAN BRAIN; INDIVIDUAL-DIFFERENCES; EMOTIONAL RESPONSES; BEAT PERCEPTION; PREMOTOR; CORTEX; TIME; CONNECTIVITY

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110

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Ladda, Aija Marie; Wallwork, Sarah B.; Lotze, Martin.  
Multimodal Sensory-Spatial Integration and Retrieval of Trained Motor Patterns for Body Coordination in Musicians and Dancers.  
FRONTIERS IN PSYCHOLOGY (2020)  
Proksch, Shannon; Comstock, Daniel C.; Mede, Butovens; с соавторами.  
Motor and Predictive Processes in Auditory Beat and Rhythm Perception.  
FRONTIERS IN HUMAN NEUROSCIENCE (2020)

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Показано 30 из 110 [Просмотр всех пристайных ссылок](#)

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1. **PARALLEL ORGANIZATION OF FUNCTIONALLY SEGREGATED CIRCUITS LINKING BASAL GANGLIA AND CORTEX**  
By: ALEXANDER, GE; DELONG, MR; STRICK, PL  
ANNUAL REVIEW OF NEUROSCIENCE Volume: 9 Pages: 357-381 Published: 1986 Times Cited: 5,923
2. **Musical expertise modulates functional connectivity of limbic regions during continuous music listening**  
By: Alluri, V.; Brattico, E.; Toiviainen, P.; et al.  
Psychomusicol.: Music Mind Brain Volume: 25 Issue: 4 Pages: 443-454 Published: 2015 [Show additional data] Times Cited: 21
3. **Connectivity Patterns During Music Listening: Evidence for Action-Based Processing in Musicians**  
By: Alluri, V.; Vaino, J.; Toiviainen, P.; Burunat, I.; et al.  
HUMAN BRAIN MAPPING Volume: 38 Issue: 6 Pages: 2955-2970 Published: JUN 2017 Times Cited: 30
4. **Hearing, feeling or seeing a beat recruits a supramodal network in the auditory dorsal stream**  
By: Araneda, Rodrigo; Renier, Laurent; Ebner-Karestinos, Daniela; et al.  
EUROPEAN JOURNAL OF NEUROSCIENCE Volume: 45 Issue: 11 Pages: 1439-1450 Published: JUN 2017 Times Cited: 10
5. **Predicting "when" using the motor system's beta-band oscillations**  
By: Arna, Luc H.  
FRONTIERS IN HUMAN NEUROSCIENCE Volume: 6 Article Number: 225 Published: AUG 2 2012 Times Cited: 55
6. **Fitting Linear Mixed-Effects Models Using lme4**  
By: Bates, Douglas; Maechler, Martin; Bolker, Benjamin M.; et al.  
JOURNAL OF STATISTICAL SOFTWARE Volume: 67 Issue: 1 Pages: 1-48 Published: OCT 2015 Times Cited: 21,568
7. **Listening to rhythms activates motor and premotor cortices**  
By: Bengtsson, Sara L.; Ullén, Fredrik; Ehrsson, H. Henrik; et al.  
CORTEX Volume: 45 Issue: 1 Special Issue: SI Pages: 62-71 Published: JAN 2009 Times Cited: 203
8. **Emotional responses to pleasant and unpleasant music correlate with activity in paralimbic brain regions**  
By: Blood, A.J.; Zatorre, R.J.; Bermudez, P.; et al.  
NATURE NEUROSCIENCE Volume: 2 Issue: 4 Pages: 382-387 Published: APR 1999 Times Cited: 625

Web of Science





# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Ассоциативный поиск (связи между документами)

Актуальность темы SciVal

Тема: [Community of Inquiry](#) | [Social Presence](#) | [Online Discussion](#)

Процентиль актуальности: 98.383

Ключевые слова автора

[Discussion forum](#) [E-moderator](#) [Interaction pattern](#) [Knowledge-construction](#)

Тема и ключевые слова статьи в Scopus

Категории/классификация

Области исследований: [Neurosciences & Neurology](#); [Radiology, Nuclear Medicine & Medical Imaging](#)

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Ключевые слова

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 DOI: 10.18488/ajefr.2021.11.17.29  
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**AN ANALYSIS OF THE EFFECT OF HUMAN CAPITAL INVESTMENT ON ECONOMIC DEVELOPMENT IN NIGERIA: DOES A NEW INDICATOR ALTER EXISTING EVIDENCE?**  Check for updates

**Adeyemi A. Ogundipe<sup>1\*</sup>**  
**Olasinde Mobolaji<sup>1</sup>**  
**Oluwatomisin M. Ogundipe<sup>2</sup>**

<sup>1</sup>Department of Economics and Development Studies Covenant University Nigeria.  
 Email: [ade.ogundipe@covenantuniversity.edu.ng](mailto:ade.ogundipe@covenantuniversity.edu.ng) Tel: +8246161987372

(+ Corresponding author)

**ABSTRACT**

**Article History**  
Received: 10 April 2020  
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 Published: 30 December 2020

**Keywords**  
Human capital investment  
 Economic Development  
 GDP per capita  
 Energy access  
 Co-integration  
 Time Series.

**JEL Classification:**  
J24, O16, E22, D31.

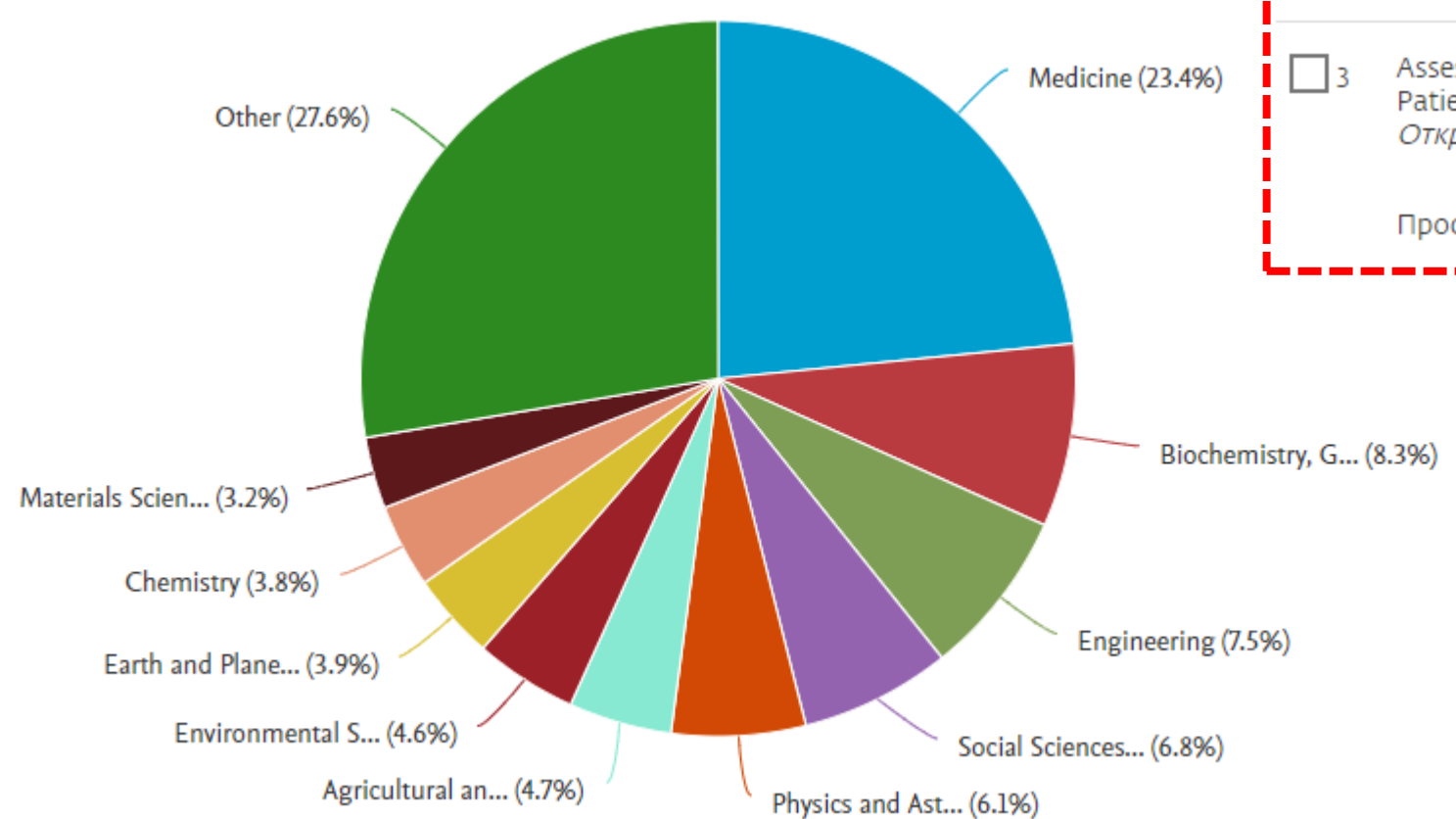
**Contribution/Originality:** The study documents the relevance of human capital investment on economic development in Nigeria. The unique contribution lies in the indicators of economic development adopted. An inclusive measure of economic development was used, and the empirical evidence differs from previous studies using GDP per capita as a measure of economic development.

**1. INTRODUCTION**

The relationship between human capital and economic development goes as far back as the 1930s when Alfred Marshall asserted in his book, Principles of Economics, that investment in people makes human capital the most valuable of all capitals and stimulates economic development. Many other authors have stressed the importance of the relationship between human capital, or investment in human capital, and economic growth, and have formulated various models to explain this theory. The endogenous growth model, which was an improvement on the Harrod-Domar and Solow growth models, explains that investment in human capital, innovation and knowledge would unquestionably contribute to economic growth.

Other researchers such as Oluwatobi and Ogunrinola (2011), Matthew (2011), Akintunde and Satope (2013), Oladeji (2015), and Jaiyeoba (2015) who have also looked at human capital investment or human capital

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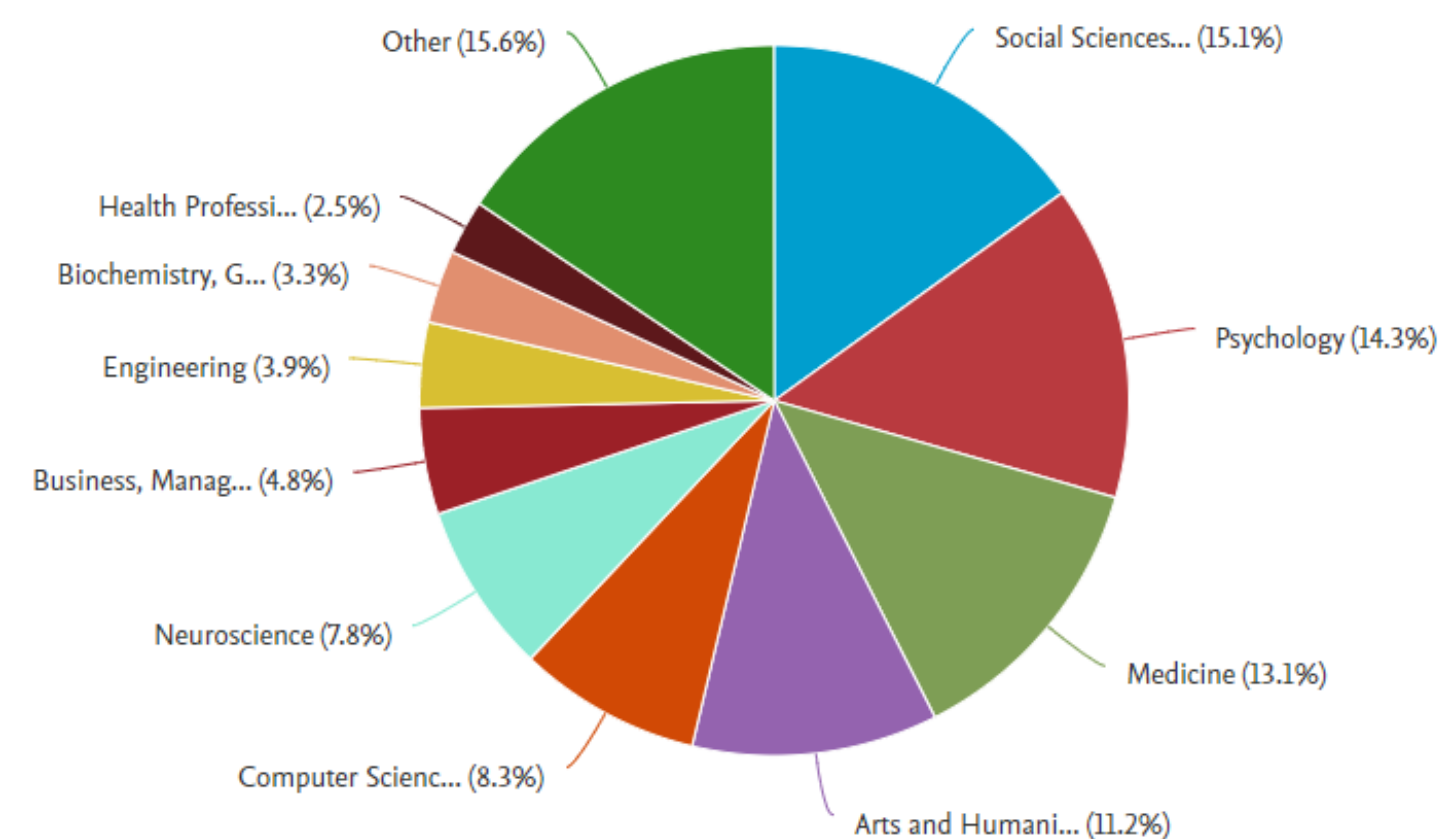
# ЭЛЕКТРОННЫЕ РЕСУРСЫ БИБЛИОТЕКИ НИУ ВШЭ

Поиск по ключевым словам в наукометрических базах данных

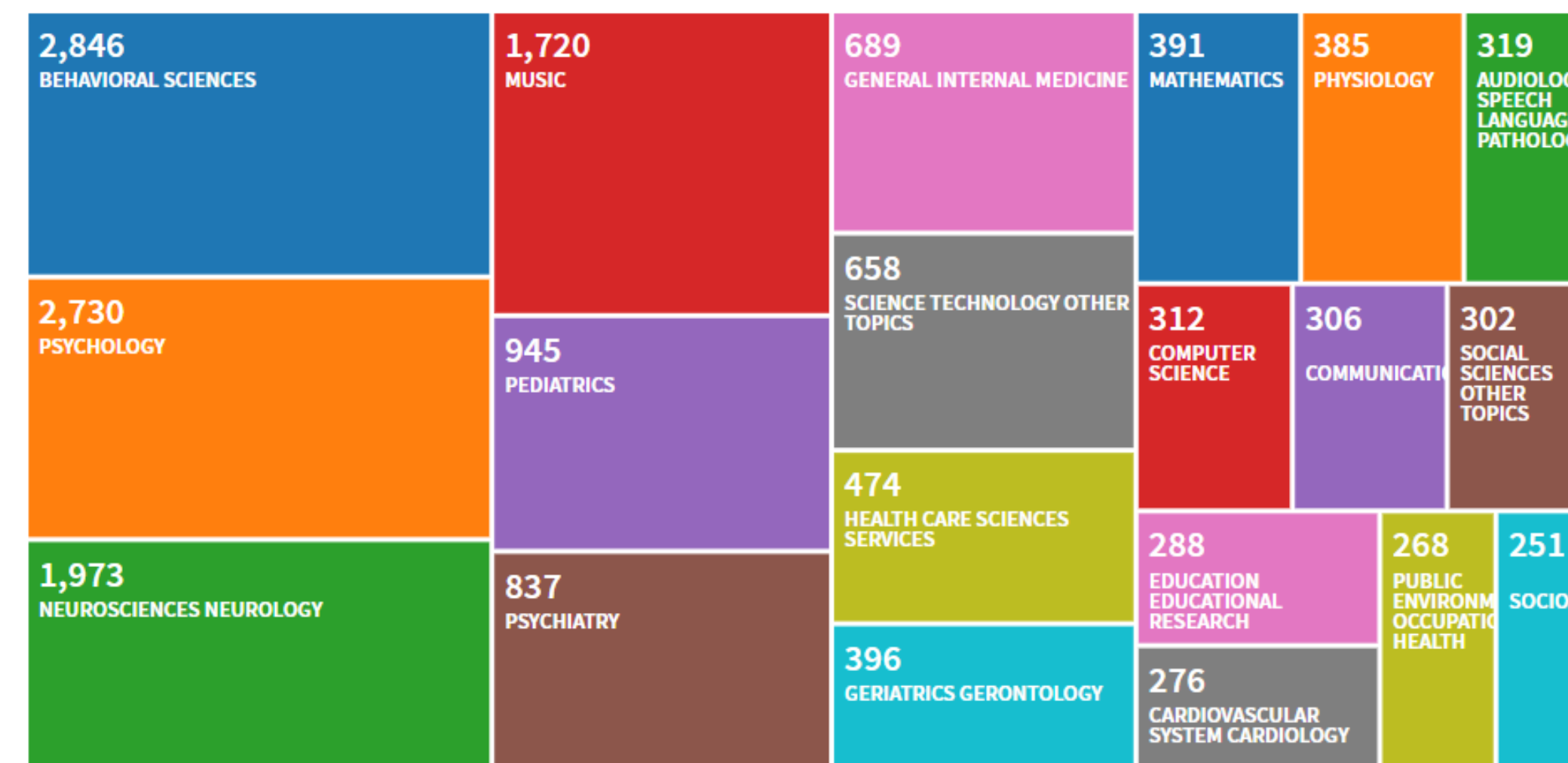
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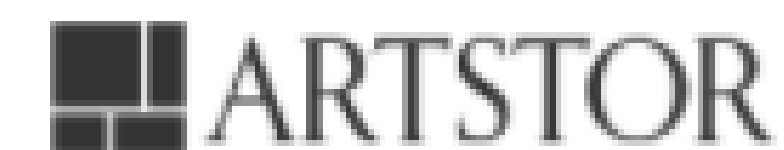
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1980

1964

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Russian Federation ⌵

	2000	2005	2006	2007	2015
Population, total	146596869.0	143518814.0	143049637.0	142805114.0	144096870.0
Population growth (annual %)	-0.4	-0.4	-0.3	-0.2	0.2
Surface area (sq. km)	17098240.0	17098240.0	17098240.0	17098240.0	17098250.0
Poverty headcount ratio at national poverty lines (% of population)	29.0	17.8	15.2	13.3	13.3
GNI, Atlas method (current US\$)	250287006783.	638631920697.	830471202264.	107991967789.	172523422865.
GNI per capita, Atlas method (current US\$)	1710.0	4450.0	5810.0	7560.0	11780.0
GNI, PPP (current international \$)	974627421657.	165558578041.	207112154403.	232472023753.	342860996811.
GNI per capita, PPP (current international \$)	6650.0	11540.0	14480.0	16280.0	23420.0
Income share held by lowest 20%	6.4	5.8	5.9	5.8	6.9
Life expectancy at birth, total (years)	65.5	65.5	66.7	67.6	71.2
Fertility rate, total (births per woman)	1.2	1.3	1.3	1.4	1.8
Adolescent fertility rate (births per 1,000 women ages 15-19)	30.6	28.8	29.2	29.6	23.0
Contraceptive prevalence, any methods (% of women ages 15-49)	..	..	..	63.2	..
Births attended by skilled health staff (% of total)	99.2	99.4	99.5	99.6	..
Mortality rate, under-5 (per 1,000 live births)	19.3	13.8	12.8	11.9	8.2

Содержит статистические сведения по более чем 850-ти показателям мирового развития. Временные ряды представлены с 1960 г. для 209-ти стран. Охвачены экономические, социальные, финансовые показатели, а также данные по природным ресурсам и окружающей среде.

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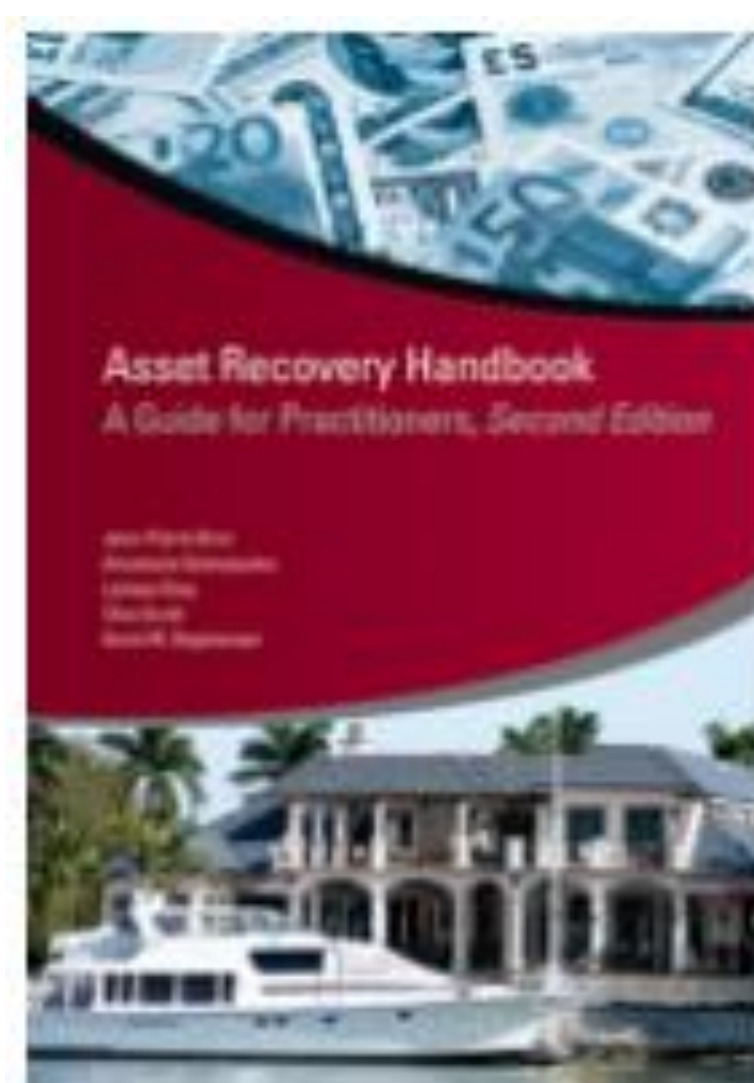


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**A. Railway transport**

**A.I INFRASTRUCTURE**

**A.I-01 TRACK**

A pair of rails over which rail borne vehicles can run maintained by an infrastructure manager. Metro, Tram and Light rail urban lines are excluded.

In the context of the EU reporting the cumulative length of railway tracks excludes also the following:

- Lines solely used for operating touristic trains and heritage trains;
- Lines constructed solely to serve mines, forests or other industrial or agricultural installations and which are not open to public traffic;
- Private lines closed to public traffic and functionally separated (i.e. stand-alone) networks;
- Private lines used for own freight transport activities or for non-commercial passenger services and light rail tracks occasionally used by heavy rail vehicles for connectivity or transit purposes.

**A.I-01.1 MAIN/RUNNING TRACK**

A track providing end-to-end line continuity designed for running trains between stations or places indicated in timetables, network statements, rosters or other indications/publications as independent points of departure or arrival for the conveyance of passengers or goods.

**A.I-01.2 OTHER TRACKS**

All other tracks than main/running ones:

- tracks maintained, but not operated by the infrastructure manager;
- tracks at service facilities not used for running trains, including sidings.

Tracks at service facilities not used for running trains are excluded. The boundary of the service facility is the point at which the railway vehicle leaving the service facility cannot pass without having an authorization to access the mainline or other similar line. This point is usually identified by a signal.

Service facilities are passenger stations, their buildings and other facilities; freight terminals; marshalling yards and train formation facilities, including shunting facilities; storage sidings; maintenance facilities; other technical facilities, including cleaning and washing facilities; maritime and inland port facilities which are linked to rail activities; relief facilities; refuelling facilities and supply of fuel in these facilities.

**A.I-02 RAILWAY LINE**

Line of transportation made up by rail exclusively for the use of railway vehicles and maintained for running trains.

A line is made up of one or more tracks, according to the definition A.I-01 Track and the corresponding exclusion criteria.

Excluded are:

- Stretches of road or water even if rolling stock is conveyed over such routes, e.g. by wagon-carrying trailers or ferries.

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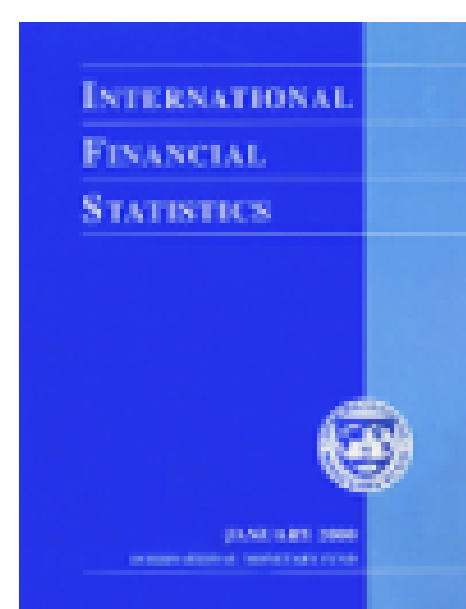
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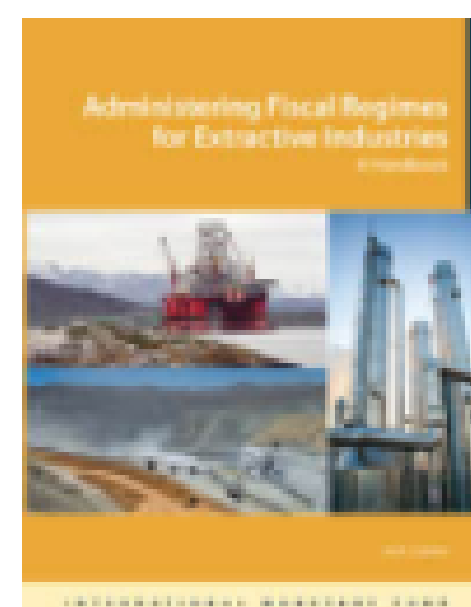
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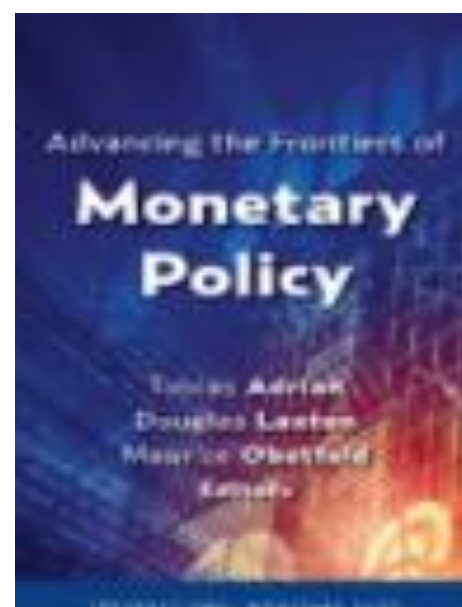
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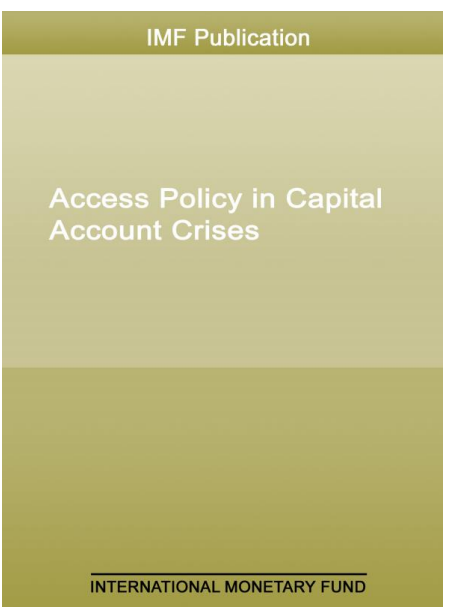
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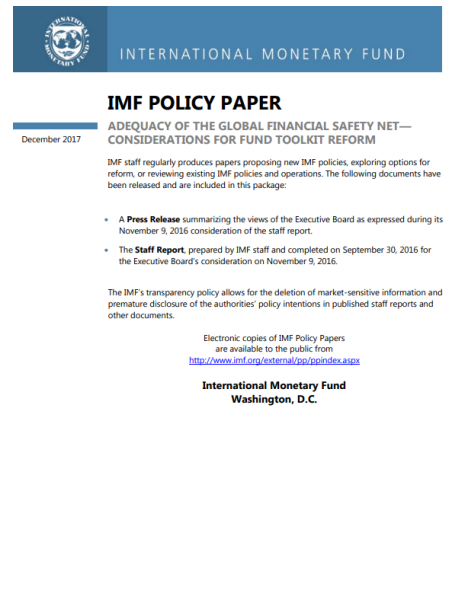
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Статьи



МЕЖДУНАРОДНЫЙ ВАЛЮТНЫЙ ФОНД

Руководство по платежному балансу и международной инвестиционной позиции

Шестое издание (РПБ6)

СПРАВОЧНИК

СПРАВОЧНИК ДЛЯ РПБ6 ПО СОСТАВЛЕНИЮ ДАННЫХ

СОПРОВОДИТЕЛЬНЫЙ ДОКУМЕНТ К ШЕСТОМУ ИЗДАНИЮ «РУКОВОДСТВА ПО ПЛАТЕЖНОМУ БАЛАНСУ И МЕЖДУНАРОДНОЙ ИНВЕСТИЦИОННОЙ ПОЗИЦИИ»

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February 2019

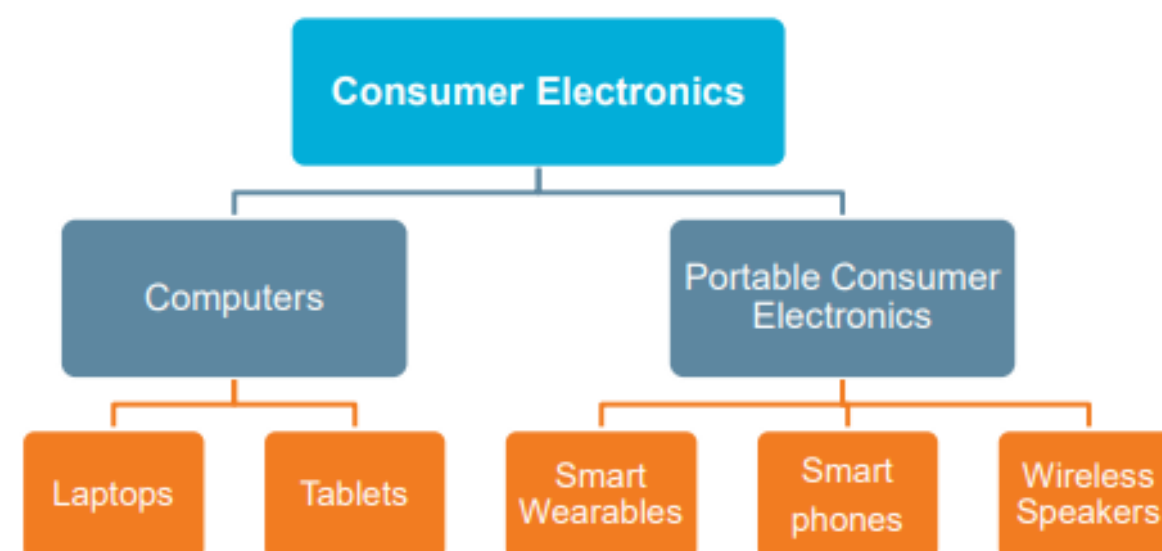
SCOPE OF THE REPORT

Scope

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- This reports examines the company's business, challenges and key competitors within consumer electronics.

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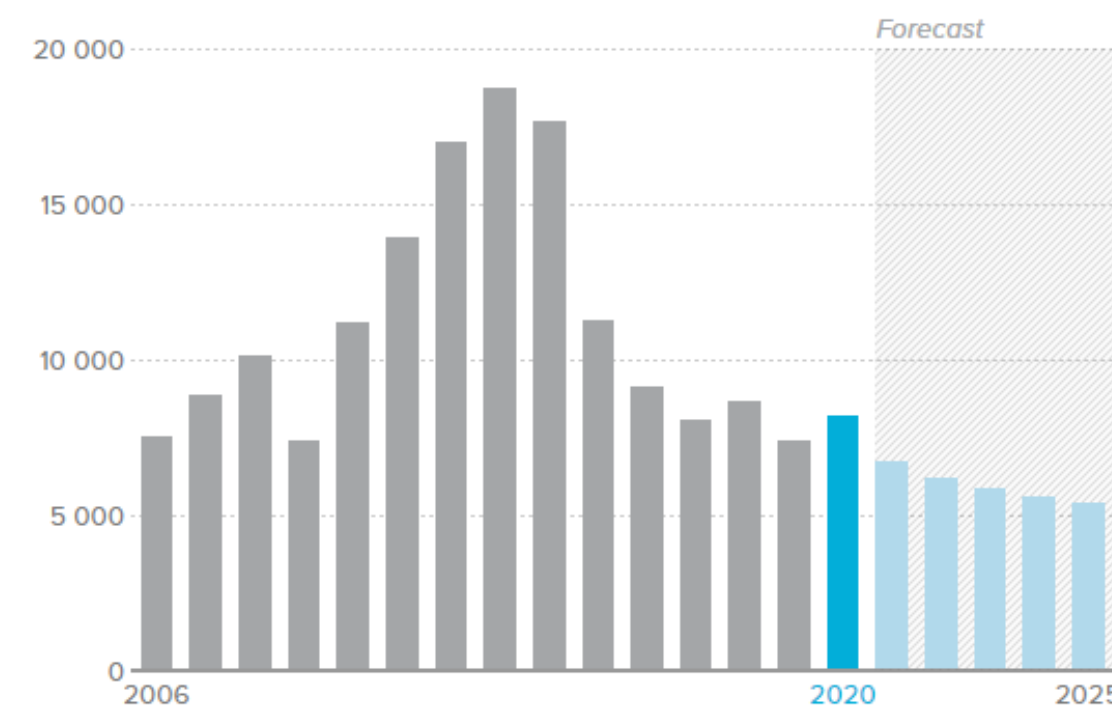
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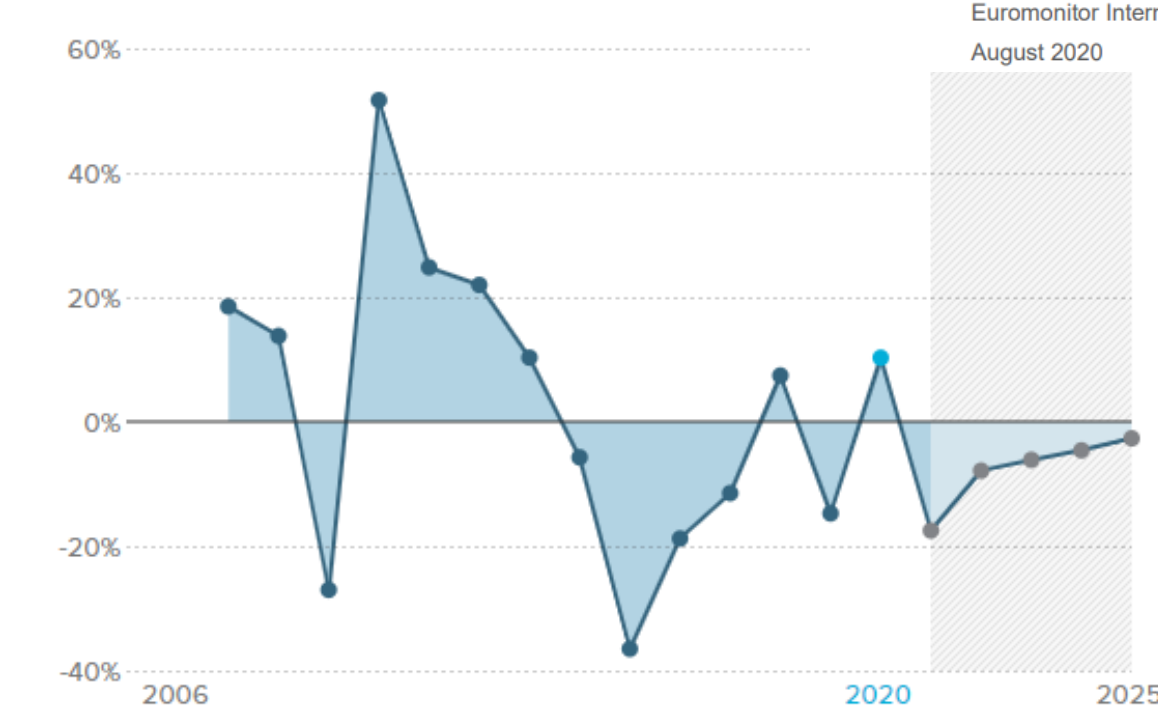
Sales of Computers and Peripherals  
 Retail Volume - '000 units - 2006-2025

8 135



Sales Performance of Computers and Peripherals  
 % Y-O-Y Retail Volume Growth 2006-2025

10.3%



### Computers and Peripherals in Russia

Euromonitor International  
 August 2020

Stats Type	Geography	Category	Data Type	Unit	2015	2016	2017	2018	2019	2020
	World	Consumer Electronics	Retail Volume	'000 units	2 739 381,6	2 706 227,4	2 698 038,6	2 683 072,7	2 668 013,6	2 514 775,3
	World	Computers and Peripherals	Retail Volume	'000 units	442 967,6	411 004,8	384 805,0	369 765,6	359 035,5	350 800,1
	World	In-Car Entertainment	Retail Volume	'000 units	55 299,2	50 222,2	46 660,8	42 287,8	38 931,0	35 063,7
	World	In-Home Consumer Electronics	Retail Volume	'000 units	352 434,7	340 615,3	328 184,1	329 616,1	326 996,6	311 853,4
	World	Portable Consumer Electronics	Retail Volume	'000 units	1 888 680,2	1 904 385,1	1 938 388,7	1 941 403,3	1 943 050,5	1 817 058,1
	World	Imaging Devices	Retail Volume	'000 units	52 805,5	41 102,8	37 941,8	34 338,7	30 488,7	25 567,4
	World	Mobile Phones	Retail Volume	'000 units	1 640 892,0	1 633 742,6	1 638 033,2	1 603 540,2	1 562 706,5	1 423 260,7
	World	Portable Players	Retail Volume	'000 units	114 588,3	122 049,1	143 695,0	171 692,8	201 704,0	206 632,4
	World	Wearable Electronics	Retail Volume	'000 units	80 394,5	107 490,5	118 718,8	131 831,5	148 151,2	161 597,6

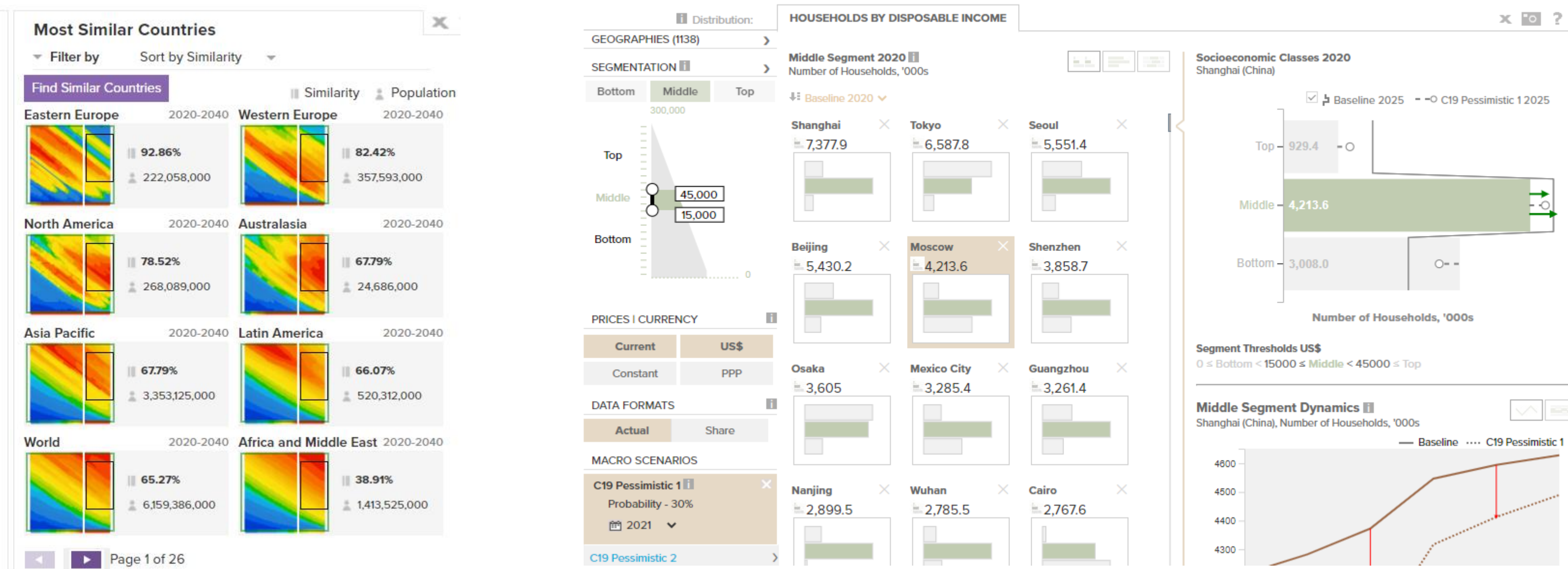
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## Passport (Euromonitor)

Future Demographics Model



Cities Income Distribution Model



Модель демографии будущего

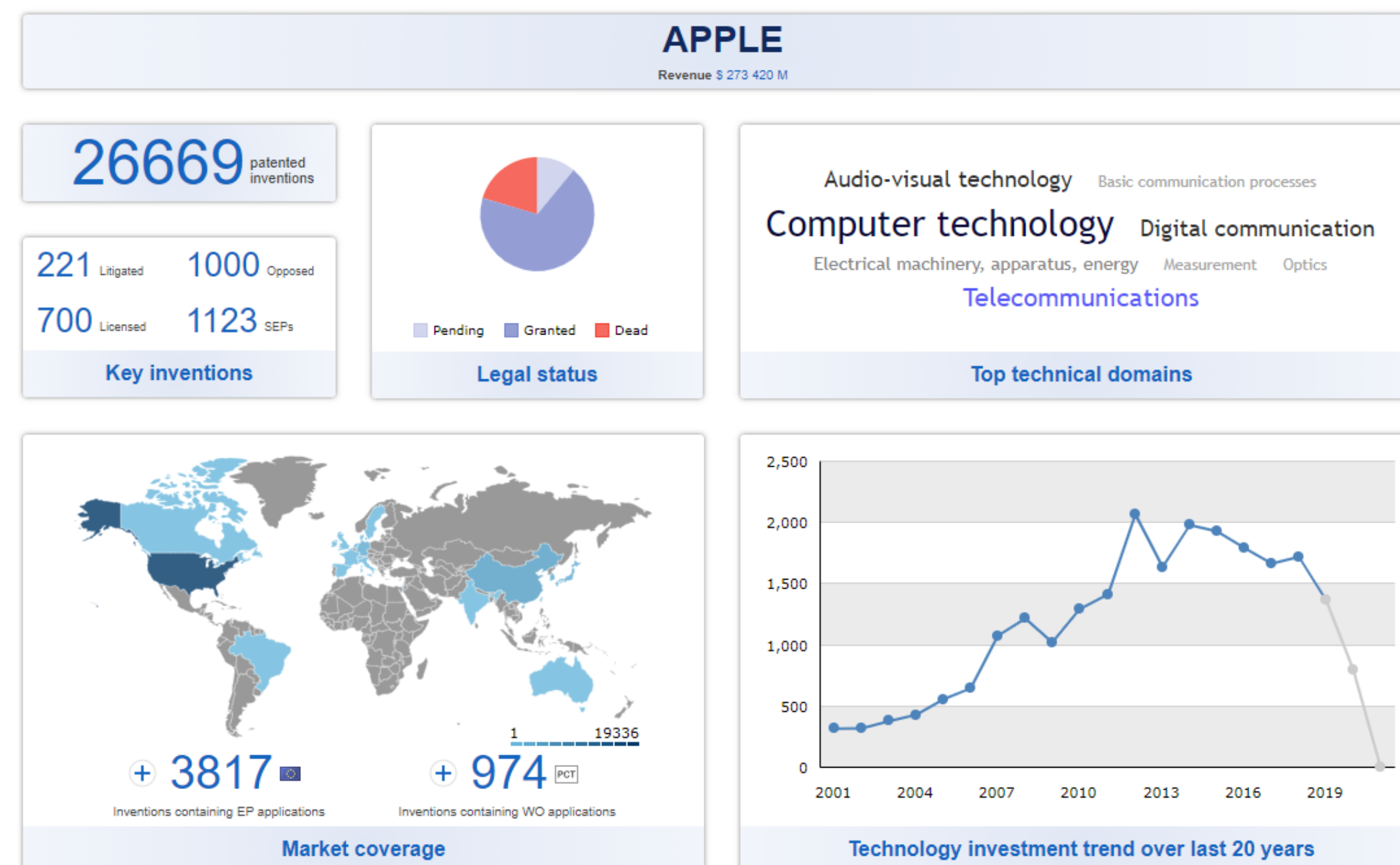
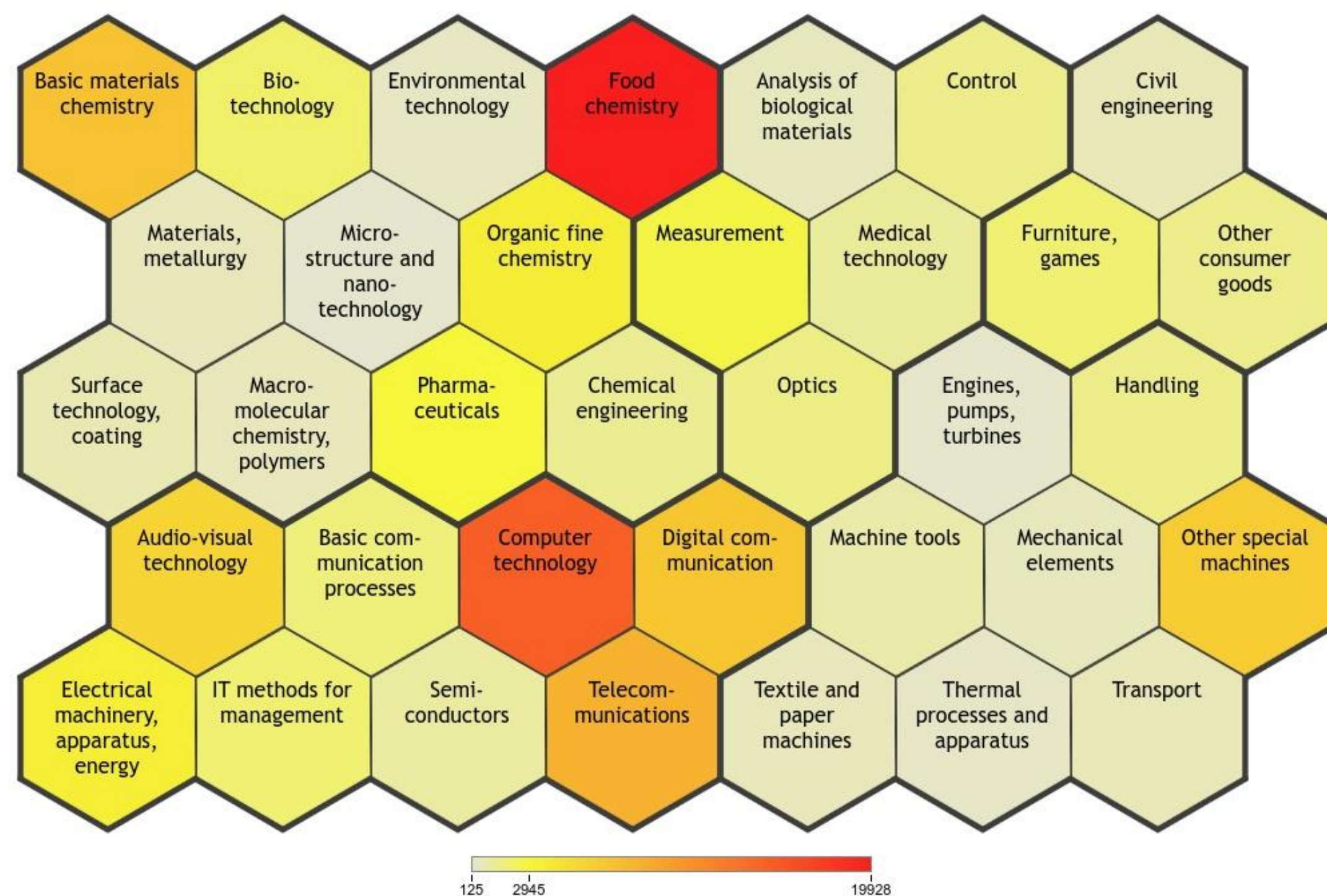
Модель распределения доходов городов

Представлены: статистика по странам (демография, экономика); показатели и анализ «образа жизни» потребителей в различных странах и др.

# ДОСТУП К СПЕЦИАЛИЗИРОВАННЫМ БАЗАМ ДАННЫХ

Orbit

Technology overview



# ДОСТУП К СПЕЦИАЛИЗИРОВАННЫМ БАЗАМ ДАННЫХ

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Temporally-overlapped video encoding, video decoding and video rendering techniques therefor

**Abstract**

Techniques for video exchange are disclosed in which a video source sends redundant copies of video coded at a given presentation time. A decoder may determine, from metadata stored with a first decoded frame, whether other decoded frames have been designated as correlated to the first decoded frame. If so, the decoder may fetch other decoding frames using time indicator values of other decoded frames in metadata stored with the first decoded frame. When other decoded frame(s) are found, the decoder may blend content of the first coded frame and the other decoded frame(s). The decoder may render the blended frame. When one such coded frame is an intra-coded frame, the proposed technique may alleviate beating artifacts by blending recovered data of the intra-coded frame with recovered data of another frame, which may be inter-coded.

**Protected countries**

Pending: US

**List of publications**

Application number	Date	Publication date
US20210076054 A1 - Application published	2019-09-05	2021-03-11

**Inventor**  
 GUO Mei  
 XIN Jun  
 SU Yeping  
 WU Hsi-Jung  
 TOURAPIS Alexandros

**Applicant/Assignee**  
 APPLE | \$ 267 748 M

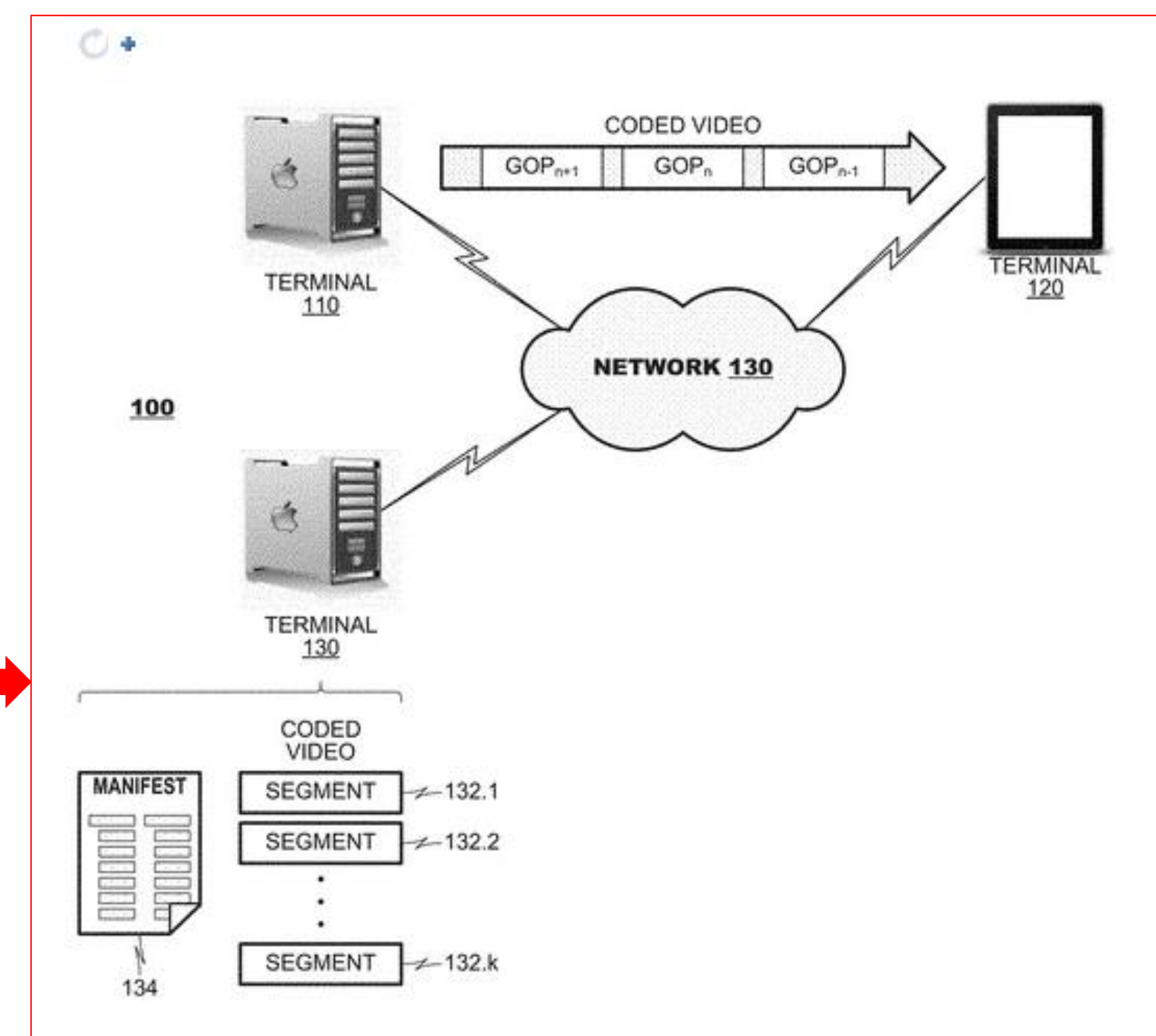
**Priority Numbers & Dates**  
 2019US-16561478 2019-09-05

**Technology domain**  
 Digital communication

**IPC codes**  
 H04N-019/159 H04N-019/172 H04N-019/177 H04N-019/44\* H04N-019/46

**CPC codes**  
 H04N-019/159 H04N-019/172 H04N-019/177 H04N-019/44\* H04N-019/46

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Identifier(s) CCDC Number(s), CSD Number(s), CSD Refcode(s) or ICSD Number(s)

Compound name e.g. sulfadiazine

DOI A single publication DOI, CSD DOI or ICSD DOI

Authors e.g. F.H.Allen

Journal e.g. Journal of the American Chemical Society

Publication details Year Volume Page

Database to search  Entire published collection  CSD  ICSD  Teaching subset

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<input checked="" type="checkbox"/>	ACUFIN		Deposition Number(s): 171330 Space Group: $P 2_1 2_1 2_1$ (19) Cell: a 5.6341(17)Å b 10.142(4)Å c 18.000(10)Å Publication(s): D.R. Boyd, N.D. Sharma, S.A. Haughey, C.C.R. Allen, R. Holt, H. Dalton, <i>Journal of the Chemical Society Perkin Transactions 2</i> , 1973, 498, DOI: 10.1039/J2980000000000000
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<input checked="" type="checkbox"/>	ACUGAG		Deposition Number(s): 171333 Space Group: $P 2_1 2_1 2_1$ (19) Cell: a 5.3260(10)Å b 8.8440(10)Å c 17.000(10)Å Publication(s): D.R. Boyd, N.D. Sharma, S.A. Haughey, C.C.R. Allen, R. Holt, H. Dalton, <i>Journal of the Chemical Society Perkin Transactions 2</i> , 1973, 498, DOI: 10.1039/J2980000000000000
<input checked="" type="checkbox"/>	ADALUM		Deposition Number(s): 175226 Space Group: $P 2_1/c$ (14) Cell: a 25.573(6)Å b 8.6736(13)Å c 22.082(6)Å, $\alpha 90^\circ$ , $\beta 104.594(14)^\circ$ , $\gamma 90^\circ$ Publication(s): S. Bellemin-Lapozzani, M.M.-C. Lo, T.H. Peterson, J.M. Allen, G.C. Fu, <i>Organometallics</i> , 2001, 20, 3453, DOI: 10.1021/om10256t

*Organometallics* **2001**, 20, 3453–3458 3453

### Synthesis, Structure, and Reactivity of $C_2$ -Symmetric Bis(phosphoryl)zirconium and Bis(phosphoryl)hafnium Complexes

Stéphane Bellemin-Lapozzani,<sup>1</sup> Michael M.-C. Lo,<sup>1,†</sup> Thomas H. Peterson,<sup>1</sup> Jerry M. Allen,<sup>1</sup> and Gregory C. Fu<sup>1,\*</sup>

<sup>1</sup>Department of Chemistry, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, and Dow Chemical Company, Chemical Sciences Division, South Charleston, West Virginia 25303

Received March 28, 2001

Several  $C_2$ -symmetric bis(phosphoryl) adducts of group 4 metals, including the first example of an  $\eta^5$ -phosphoryl complex of hafnium, have been synthesized and structurally characterized. These complexes undergo *rac*-*meso* isomerization in a process that is accelerated by Lewis bases. A  $C_2$ -symmetric bis(phosphoryl)zirconium dichloride binds as a bidentate ligand to Mo(CO)<sub>6</sub>. In the presence of methylalumoxane, bis(phosphoryl)zirconium complexes serve as active catalysts for ethylene-hexene copolymerization reactions.

A few years ago, we initiated a program directed at the development of applications of planar-chiral heterocycles as ligands for enantioselective transition metal-catalyzed processes.<sup>2,3</sup> As part of this effort, in 1998 we reported the synthesis and resolution of  $C_2$ -symmetric 1,1'-diphosphaferrocene **1**, a potentially useful chiral bidentate ligand.<sup>4,5</sup> Of course, the essentially parallel relationship between the two phosphoryl rings of complex **1** (6° deviation from coplanarity) is not the ideal geometry for bidentate complexation to a transition metal.<sup>6</sup> On the other hand, we felt that the bent geometry of a bis(phosphoryl) complex of a group 4 metal (**2**) might be better predisposed for chelation.<sup>7</sup> In 1999, we therefore initiated an investigation of the chemistry of such complexes, the results of which we describe in this article.

**Results and Discussion**

#### Synthesis of Bis(phosphoryl) Complexes of Group 4 Metals.

We chose to synthesize 2-phenyl-3,4-dimethyl-substituted phosphoryl complexes, because of the ready accessibility of precursor phosphide **4** by the procedure of Mathrey.<sup>8</sup> Treatment of ZrCl<sub>4</sub> with **4** furnishes *rac*-bis(phosphoryl)zirconium complex **5** in 39% yield after recrystallization from pentane (eq 1).<sup>9</sup> The same procedure provides the corresponding  $C_2$ -symmetric bis(phosphoryl)hafnium adduct (**6**) in 25% yield after recrystallization from pentane/Et<sub>2</sub>O; to the best of our knowledge, complex **6** is the first example of an  $\eta^5$ -phosphoryl complex of hafnium. Attempts to apply this route to the synthesis of the corresponding titanium adduct instead afforded 3,3',4,4'-tetramethyl-2,2'-diphenylphosphole, which was fully characterized, including an X-ray structure determination.<sup>10</sup>

We have obtained an X-ray crystal structure of zirconium complex *rac*-**5**, which is illustrated in Figure 1.

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Publication on Web 06/30/2001



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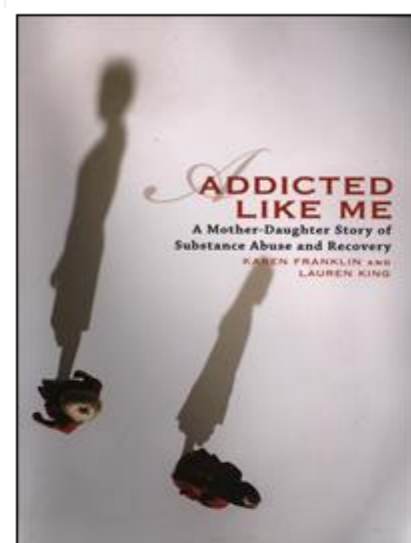
# ДОСТУП К СПЕЦИАЛИЗИРОВАННЫМ БАЗАМ ДАННЫХ

## Counseling and Psychotherapy Transcripts

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*Addicted Like Me: A Mother-Daughter Story of Substance Abuse and Recovery*, by Karen Franklin and Lauren King. (Seal Press, Berkeley, CA, 2009), 279 p.

[hide metadata](#)



**Author(s):** Franklin, Karen, fl. 2009; King, Lauren, fl. 2009  
**Document type:** Client Narrative  
**Subject:** Ability >> Recovery  
 Diagnosis >> Addiction >> Drug addiction  
 Diagnosis >> Substance abuse (Drug abuse)  
 Relationships >> Parent-child relationships  
**Publisher:** Seal Press  
**Publication Year:** 2009  
**Client Gender:** Female  
**Client Marital Status:** Married; Single  
**Client Sexual Orientation:** Heterosexual  
**Copyright Statement:** Copyright © 2009 by Karen Franklin and Lauren King

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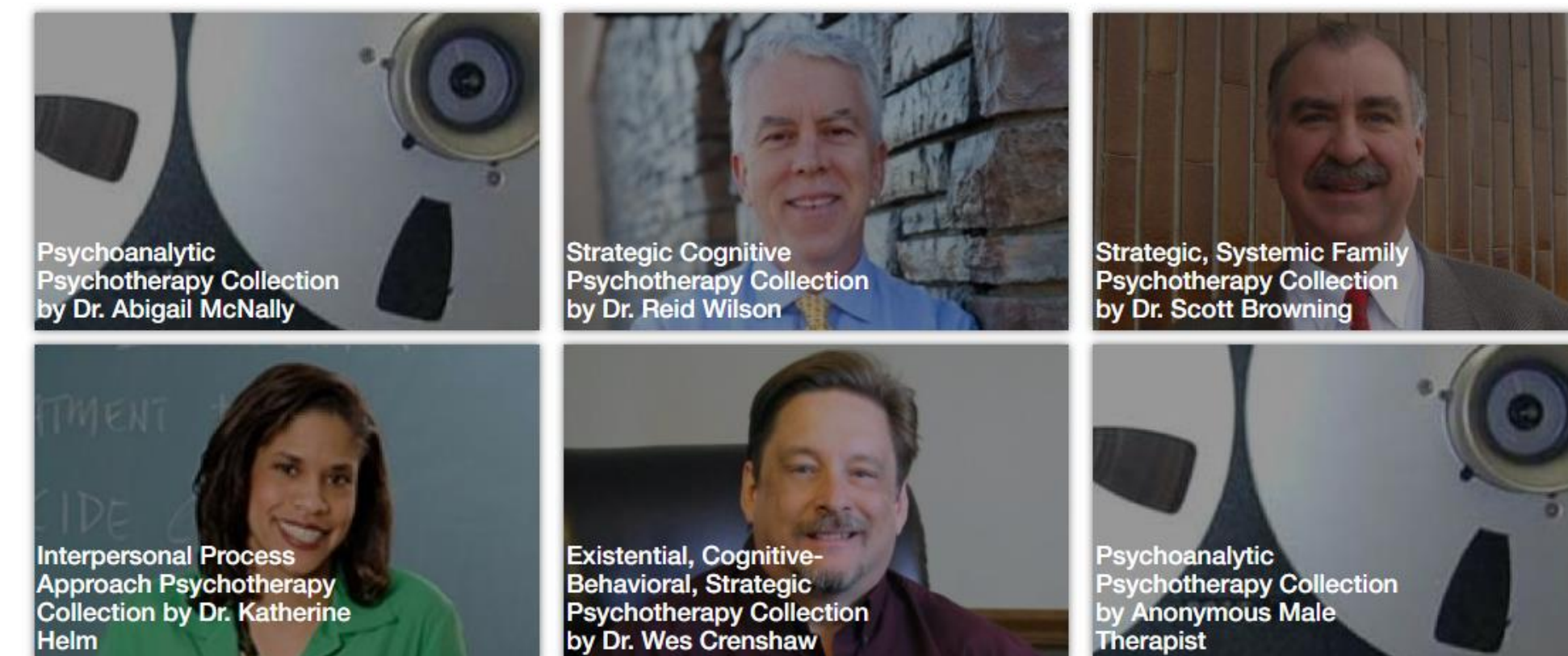
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The New Palgrave Dictionary of Economics

2018 Edition | Editors: Macmillan Publishers Ltd

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**Zhao Zhigian**

Chinese artist **Zhao Zhigian** specialized in plant life in his paintings, with images characterized by soft, detailed brushwork and brilliant, translucent colors.

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**Dunhuang**

The cave sanctuaries near **Dunhuang**, China, contain artwork representing over 1,000 years of Buddhist history, including a trove of medieval scroll paintings and manuscripts.

**A'gave You**

Wangechi Mutu: *A'gave You*, mixed media collage on mylar, 2.36×1.37 m, 2008 (East Hampton, NY, private collection); image courtesy of the artist and Susanne Vielmetter Los Angeles Projects, photographed by Robert Wedemeyer



# ДОСТУП К ЭНЦИКЛОПЕДИЯМ, СЛОВАРЯМ И СПРАВОЧНИКАМ

## New Palgrave Dictionary of Economics



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## Social Capital

Authors Authors and affiliations

Partha Dasgupta

Reference work entry

First Online: 15 February 2018

DOI: [https://doi.org/10.1057/978-1-349-95189-5\\_2043](https://doi.org/10.1057/978-1-349-95189-5_2043)

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### Abstract

Social capital is an aggregate of interpersonal networks. Belonging to a network helps a person to coordinate his strategies with others. Where the state or the market is dysfunctional, communities enable people to survive, even if they do not enable them to live well. But communities often involve hierarchical social structures; and the theory of repeated games cautions us that communitarian relationships can involve allocations where some of the parties are worse off than they would have been if they had not been locked into the relationships. Even if no overt coercion is visible, such relationships could be exploitative.

### Keywords

- Caste system
- Civil society
- Common property resources
- Communitarian institutions
- Contract enforcement
- Cooperation
- Exploitation
- Human capital
- Interpersonal networks

### Social Capital

Partha Dasgupta

#### Abstract

Social capital is an aggregate of interpersonal networks. Belonging to a network helps a person to coordinate his strategies with others. Where the state or the market is dysfunctional, communities enable people to survive, even if they do not enable them to live well. But communities often involve hierarchical social structures; and the theory of repeated games cautions us that communitarian relationships can involve allocations where some of the parties are worse off than they would have been if they had not been locked into the relationships. Even if no overt coercion is visible, such relationships could be exploitative.

#### Keywords

Caste system; Civil society; Common property resources; Communitarian institutions; Contract enforcement; Cooperation; Exploitation; Human capital; Interpersonal networks; Prisoner's Dilemma; Public goods; Reciprocity; Repeated games; Reputation; Rotating savings and credit associations; Social capital; Social norms; Total factor productivity; Trust

#### JEL Classifications

Z12

#### Definitions?

The idea of social capital sits awkwardly in contemporary economic thinking. Although it has a powerful, intuitive appeal, the object has proven hard to track as an economic good. One can argue (Arrow, 2000) that it is misleading to use the term 'capital' to refer to whatever it is that 'social capital' happens to be, because capital is usually

identified with tangible, durable and alienable objects (for example, buildings and machines), whose accumulation can be estimated and whose worth can be assessed. There is much to agree with this. But in regard to both heterogeneity and intangibility, social capital would seem to resemble knowledge and skills. So one can also argue that, since economists have not shied away from regarding knowledge and skills as forms of capital, we should not shy away in this case either.

In an early definition, social capital was identified with those 'features of social organization, such as trust, norms, and networks that can improve the efficiency of society by facilitating coordinated actions' (Putnam et al. 1993, p. 167). The characterization suffers from a weakness: it encourages us to amalgamate strikingly different objects, namely (and in that order), beliefs, behavioural rules, and such forms of capital assets as interpersonal links (or 'networks'), without establishing reasons why such an inclusive definition would prove useful in gaining an understanding of our social world. Subsequently, Putnam (2000, p. 19) suggested a redefinition: 'social capital refers to connections among individuals – social networks and the norms of reciprocity and trustworthiness that arise from them'. Since then authors have defined social capital even more inclusively, where attitudes towards others make their appearance as well: 'Social capital generally refers to trust, concern for one's associates, a willingness to live by the norms of one's community and to punish those who do not' (Bowles and Gintis 2002, p. F419).

These definitions tell us that 'social capital' is an ingredient in the workings of civil society (Putnam et al. 1993; Putnam 2000). In a parallel development, the theory and empirics of common-property resources in poor countries (for example, coastal fisheries, village tanks, local forests, pasture lands, and threshing grounds) have revealed the character of those local institutions that enable mutually beneficial courses of action to be undertaken within communities (Dasgupta and Heal 1979; Jodha 1986; Ostrom 1990; Dasgupta and Mäler 1991; Bromley 1992; Baland and Platteau 1996). Development economists have also studied rotating

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sustain an outcome where the time-average of the per-period payoff to a player is less than the payoff at the unique Nash equilibrium. That player would be worse off in a long-term relationship with the others than if the players were not in a long-term relationship. The social norm sustaining that outcome would be exploitative of the player.

- Repeated Games
- Social Networks, Economic Relevance of
- Social Norms

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#### Morals

Social capital is an aggregate of interpersonal networks. From the economic point of view, belonging to a network helps a person to coordinate his strategies with others. We should not prejudice the character of the strategies on which members of a network coordinate. As with any other form of capital asset, social capital can be put to good use or bad.

#### See Also

- Common Property Resources
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**[+] Abstract and Keywords**

Adam Smith's formal legacy to posterity consisted of meticulously revised editions of his two published works, and ; long-standing plans for treatises on Jurisprudence, Rhetoric, and the Fine Arts were abandoned on the grounds that there was no time to complete them. This chapter discusses Smith as component parts of an unrealized plan to develop a Science of Man on experimental principles. Smith's introduction to this as a student is explored and the influence of Hutcheson and Hume is emphasized as is the fact that Smith developed both the published and unpublished components of his Science of Man simultaneously. The question of the meaning Smith attached to 'science' is a continuing theme of the chapter.

Keywords: [Adam Smith](#), [Hutcheson](#), [Hume](#), [science of man](#)

Adam Smith is often seen as an unrewarding subject for biography. Dugald Stewart, his first and greatest biographer, saw him as a quiet, unassuming man who led a relatively uneventful life and preferred the peace and quiet of his native Kirkcaldy and the company of old friends to the bustle of Glasgow, Edinburgh, or London. We know him now as a notoriously poor correspondent who valued his privacy, who deplored the current fashion for biographical tittle-tattle and who, at the end of his life, made an archival bonfire of most of his private papers and unfinished texts in an attempt to preserve his biographical privacy. For Smith was a philosopher who believed that a writer should be remembered for his works rather than his life, and for works that were finished, published and polished rather than for those which were incomplete and had yet to reach the public. It was for this reason that he reluctantly abandoned ambitious plans for new treatises on government, philosophy and the fine arts and spent his last years polishing and perfecting the texts of his two great published masterpieces, the *Theory of Moral Sentiments* and *The Wealth of Nations*. As he told his

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**Nigar Hashimzade, author**  
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**John Black** worked on previous editions of this dictionary and was a Fellow and Tutor in Economics at Merton College, Oxford, and then Professor of Economic Theory at the [More](#)

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# ДОСТУП К ЭНЦИКЛОПЕДИЯМ, СЛОВАРЯМ И СПРАВОЧНИКАМ

## Oxford English Dictionary

### furlough, *n.*

Text size: **A**View as: [Outline](#) | [Full entry](#)Quotations: [Show all](#) | [Hide all](#) | [Keywords: On](#) |**Pronunciation:** <sup>ⓘ</sup> Brit. /'fɜːləʊ/, U.S. /'fɜːr,lou/**Forms:** ... [\(Show More\)](#)**Frequency (in current use):** ●●●●●●●●**Origin:** A borrowing from Dutch. **Etymon:** Dutch *verlof*.**Etymology:** < Dutch *verlof* exemption from service, permission, permit (Middle Dutch (rare) *verlof* permission to leave, dismissal), probably < Middle Low German *vorlōf* permission to leave, dismissal, a deverbal derivative < *vorlōven* to permit, allow, especially to leave, probably an alteration (with prefix substitution: see *vor-* *FOR-* *prefix*) of *erlōven*, in the same sense (see note).Compare also (< Middle Low German *vorlōf*) late Old Swedish *förloff* (Swedish *förlov*) and early modern Danish *forloff* (Danish *forlov*), and also (probably modelled on the Middle Low German word) German *Verlaub* (16th cent.), all in the sense 'permission'.Middle Low German *erlōven* is cognate with Old English *ārlēfan*, Old High German *irloben* (Middle High German *erloben*, German *erlauben*), Gothic *uslaubjan*, all in the sense 'to permit' < the Germanic base of *OR-* *prefix* (compare *A-* *prefix*) + the Germanic base of *LEVE* *v.* (compare *LEAVE* *n.*).*Form history.*The *β* forms apparently arose by analogy with words showing variation between *-of* and *-ow*, compare e.g. the forms *thof* and *thow* at *THOUGH* *adv.*, *conj.*, and *n.*; spellings in *-ough*, *-ogh* are purely analogical.With the stress pattern of the English word perhaps compare the synonymous Dutch *oorlof* (with stress on the first syllable).[\(Show Less\)](#)

**3.** Originally *U.S.* Dismissal or suspension from employment, usually due to economic conditions; unplanned (and typically unpaid and involuntary) leave; the period of such suspension or leave. Also: an instance of this.

[Categories »](#)Chiefly *U.S.* until use of the term became more widespread in March 2020 when the U.K. government introduced a furlough scheme in response to the Covid-19 pandemic, under which the government gave grants to employers to pay part of the wages of employees left without work, or unable to work, as a result of the crisis.

- 1867 *Bangor (Maine) Daily Whig & Courier* 9 Jan. In all of the frequent 'furloughs'—as the discharges of the soldiers are called—four-fifths of the unfortunates are soldiers...There were furloughed twenty-three printers, of whom nineteen were soldiers.
- 1883 *Harrison (Arkansas) Times* 21 July The Government printing office...has been so skillfully managed by Mr. Rounds that no furlough will be required during the fiscal year.
- 1940 *Washington Post* (Electronic ed.) 3 Jan. 24/4 Even though they are masked under the euphonious name of 'furloughs', the dismissals are actual enough.
- 1989 *United Press Internat. Newswire* (Nexis) 16 Oct. (Washington News section) If the cuts become permanent, they could mean a furlough of two or three weeks for many meat inspectors.
- 2020 *Austral. Financial Rev.* (Nexis) 17 Apr. 30 EY told its 17,000 UK staff on Wednesday...that partners' pay would be cut by 20 per cent, and said it would 'do everything possible' to navigate the coronavirus crisis without redundancies, furloughs or reducing employee salaries.

### lockdown, *n.*

Text size: **A**View as: [Outline](#) | [Full entry](#)Quotations: [Show all](#) | [Hide all](#) | [Keywords: On](#) |**Pronunciation:** <sup>ⓘ</sup> Brit. /'lɒkdaʊn/, U.S. /'lɑk,daʊn/**Frequency (in current use):** ●●●●●●●●**Origin:** Formed within English, by compounding. **Etymons:** *LOCK* *v.*, *DOWN* *adv.***Etymology:** < *LOCK* *v.* + *DOWN* *adv.*In sense 2 after *to lock down* at *LOCK* *v.* Phrasal verbs 1.Originally *North American*.

**1.** Originally: a piece of wood used in the construction of rafts when transporting timber downriver, consisting of a strip or branch bent around the horizontal poles and secured into holes in the logs. Later: a peg, pin, or similar device used to fasten something in place.

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- 1832 *Private & Special Acts Maine* (12th Legislature) 450 That it shall be the duty of said corporation to raft all lumber in said boom without any unnecessary delay, securely and faithfully with suitable poles and lock-downs.
- 1895 *Davenport (Iowa) Weekly Leader* 14 Aug. 1/13 Poles...to which each log was fastened by wooden pegs and lock-downs.
- 1958 *Oshkosh (Wisconsin) Daily Northwestern* 10 July 11/2 The poles were held down by bent oak pins called lockdowns.
- 1981 *Oil & Gas Jnl.* (Nexis) 21 Sept. 205 Other features include 360 degrees serrated locking swivel base with double lockdowns.
- 2012 J. H. WRIGHT *Blazing Ice* vii. 106 Three pineapple lockdowns on our container sleds broke. These were nearly indestructible devices that tie the container van to the sled base.

**b.** More generally: a state of isolation, containment, or restricted access, usually instituted for security purposes or as a public health measure; the imposition of this state.

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- 1984 *United Press Internat. Newswire* (Nexis) 14 Dec. They instituted a 'security lockdown' at the PUREX plant Monday when a can containing..plutonium sludge was found to be missing.
- 2002 *Quill* (Nexis) 1 May 34 We heard the city was on lockdown and that it wasn't possible to get in.
- 2005 *Courier-Mail (Brisbane)* 3 May 3/5 Contestants go into lockdown tomorrow isolated from the outside world as they prepare to enter the Big Brother house on Sunday.
- 2020 *Maldon & Burnham Standard* (Nexis) 21 June It's been nearly three months since the lockdown was officially imposed in the UK to slow the spread of the coronavirus.

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## Morning Headache as an Obstructive Sleep Apnea-Related Symptom among Sleep Clinic Patients—A Cross-Section Analysis

Jakub Spałka<sup>1,\*</sup>, Konrad Kędzia<sup>2,†</sup>, Wojciech Kuczyński<sup>1,\*</sup>, Aleksandra Kudrycka<sup>1</sup>, Aleksandra Małolepsza<sup>1</sup>, Piotr Białasiewicz<sup>1</sup> and Łukasz Mokros<sup>3</sup>

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**Abstract:** Morning headache is considered to be a symptom of obstructive sleep apnea syndrome (OSAS). Despite not being as common as excessive daytime sleepiness or unrefreshing sleep, it can similarly impair everyday activities. The aim of the present study was to evaluate the prevalence of and factors associated with morning headaches (MH) among patients referred for polysomnography due to suspected OSAS. This is a retrospective study on 1131 patients who underwent polysomnography between 2013 and 2015. Morning headaches (MH) were reported in 29% of them. In a logistic regression model, a rise in the probability of MH was associated with female sex (odds ratio, OR, 1.38, 95% confidence interval, CI, 1.08–1.75), history of hypertension (OR 1.25, 95% CI 1.06–1.46), complaint on unrefreshing sleep (OR 1.42, 95% CI 1.19–1.70), choking at night (OR 1.25, 95% CI 1.05–1.49), and fall in total sleep time (OR 0.872 per each hour, 95% CI 0.76–0.99). The risk between MH and apnea–hypopnea index, blood oxygen saturation parameters or arousal index was found to be statistically insignificant. There is a lack of evidence that MH is associated with the severity of OSAS or nocturnal hypoxemia.

**Keywords:** OSAS; risk factors of OSAS; morning headaches; BMI

### 1. Introduction

In obstructive sleep apnea syndrome (OSAS), repeated episodes of obstructive apnea and hypopnea during sleep lead to sleep disruption by arousals. In consequence, patients suffer from excessive daytime sleepiness [1]. Other common OSAS symptoms include loud snoring, waking up with a choking or gasping sensation, sleepiness or lack of energy during the day, and morning headaches (MH). Recurrent arousals increase the risk of hypertension, cardiovascular, and cerebrovascular events [2,3]. The reported prevalence of OSAS ranges from 4% to 84% among men and from 2% to 61% among women [4,5].

MH has been considered to be a symptom of OSAS for more than a century [6,7]. The importance of the link is reflected in the 3rd edition of the International Classification of Headache Disorders since it provides diagnostic criteria for OSAS related headache. By definition, OSAS-related headache is present on awakening after sleep in a patient with diagnosed OSAS based on the apnea–hypopnea

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## Morning Headache as an Obstructive Sleep Apnea-Related Symptom among Sleep Clinic Patients—A Cross-Section Analysis

by Jakub Spałka<sup>1,\*</sup>, Konrad Kędzia<sup>2,†</sup>, Wojciech Kuczyński<sup>1,\*</sup>, Aleksandra Kudrycka<sup>1</sup>, Aleksandra Małolepsza<sup>1</sup>, Piotr Białasiewicz<sup>1</sup> and Łukasz Mokros<sup>3</sup>

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### Abstract

Morning headache is considered to be a symptom of obstructive sleep apnea syndrome (OSAS). Despite not being as common as excessive daytime sleepiness or unrefreshing sleep, it can similarly impair everyday activities. The aim of the present study was to evaluate the prevalence of and factors associated with morning headaches (MH) among patients referred for polysomnography due to suspected OSAS. This is a retrospective study on 1131 patients who underwent polysomnography between 2013 and 2015. Morning headaches (MH) were reported in 29% of them. In a logistic regression model, a rise in the probability of MH was associated with female sex (odds ratio, OR, 1.38, 95% confidence interval, CI, 1.08–1.75), history of hypertension (OR 1.25, 95% CI 1.06–1.46), complaint on unrefreshing sleep (OR 1.42, 95% CI 1.19–1.70), choking at night (OR 1.25, 95% CI 1.05–1.49), and fall in total sleep time (OR 0.872 per each hour, 95% CI 0.76–0.99). The risk between MH and apnea–hypopnea index, blood oxygen saturation parameters or arousal index was found to be statistically insignificant. There is a lack of evidence that MH is associated with the severity of OSAS or nocturnal hypoxemia. **View Full-Text**

**Keywords:** OSAS; risk factors of OSAS; morning headaches; BMI

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Spałka J, Kędzia K, Kuczyński W, Kudrycka A, Małolepsza A, Białasiewicz P, Mokros Ł. Morning Headache as an Obstructive Sleep Apnea-Related Symptom among Sleep Clinic Patients—A Cross-Section Analysis. *Brain Sciences*. 2020; 10(1):57. База - DOAJ: Directory of Open Access Journals

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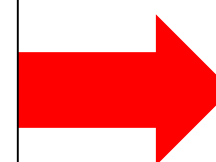
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