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Introduction to Urban Science **Urban Landscape Ecology** **Open Source Geospatial Science for Urban Studies** Advances in Urban Engineering and Management Science Volume 1 Advances in Urban Engineering and Management Science Volume 2 **Urban Science and Engineering** Urban Climate Science for Planning Healthy Cities **Urban Science Education for the Hip-Hop Generation** **Introduction to Urban Science** *Advances in Urban Engineering and Management Science Volume 2* **Management of Science-Intensive Organizations** *Improving Urban Science Education* **Digital City Science. Researching New Technologies in Urban Environments** Urban Histories of Science Greening Berlin **Natural Science Education, Indigenous Knowledge, and Sustainable Development in Rural and Urban Schools in Kenya** **Social Science and Urban Crisis** **Materialien zum Kursunterricht Englisch Big Data Science and Analytics for Smart Sustainable Urbanism** **New Frontiers in Regional Science** **Morphological Research in Planning, Urban Design and Architecture** Peterson's Annual Guides to Graduate Study *Science, Technology and Innovation for Sustainable Urban Development in a Post-pandemic World* *The Science and Practice of Urban Land Valuation* **Teaching and Learning in Urban Agricultural Community Contexts** **Proceedings of the 2015 International Conference on Materials Engineering and Environmental Science (MEES2015)** **Imagining Urban Futures** **Urban**

Computing *Urban Services to Ecosystems* **Being Interdisciplinary Science** *Blogging The Urban Planet* *Keio Economic Studies* **Darwin Comes to Town** **The Popular Science Monthly** Regaining the Edge in Urban Education **Ecology of Urban Environments** Teaching Urban Morphology **Charles Urban** The Eclectic Magazine of Foreign Literature, Science, and Art

New Frontiers in Regional Science Mar 17 2021 The first in a two volume tribute to Walter Isard, the second being "Dynamics and Conflict in Regional structural Change", this book looks at new frontiers in regional science. Together they contains 50 papers by experts in this field, and look at subjects such as location theory.

Introduction to Urban Science Feb 25 2022 A novel, integrative approach to cities as complex adaptive systems, applicable to issues ranging from innovation to economic prosperity to settlement patterns. Human beings around the world increasingly live in urban environments. In Introduction to Urban Science, Luis Bettencourt takes a novel, integrative approach to understanding cities as complex adaptive systems, claiming that they require us to frame the field of urban science in a way that goes beyond existing theory in such traditional disciplines as sociology, geography, and economics. He explores the processes facilitated by and, in many cases, unleashed for the first time by urban life through the lenses of social heterogeneity, complex networks, scaling, circular causality, and information. Though the idea that cities are complex adaptive systems has become mainstream, until now those who study cities have lacked a comprehensive theoretical framework for understanding cities and urbanization, for generating useful and falsifiable predictions, and for constructing a solid body of empirical evidence so that the discipline of urban science can continue

to develop. Bettencourt applies his framework to such issues as innovation and development across scales, human reasoning and strategic decision-making, patterns of settlement and mobility and their influence on socioeconomic life and resource use, inequality and inequity, biodiversity, and the challenges of sustainable development in both high- and low-income nations. It is crucial, says Bettencourt, to realize that cities are not "zero-sum games" and that knowledge, human cooperation, and collective action can build a better future.

Advances in Urban Engineering and Management Science Volume 2 Jul 01 2022 Advances in Urban Engineering and Management Science contains the selected papers resulting from the 2022 3rd International Conference on Urban Engineering and Management Science (ICUEMS 2022). Covering a wide range of topics, the Proceedings of ICUEMS 2022 presents the latest developments in: (i) Architecture and Urban Planning (Architectural design and its theory, Urban planning and design, Building technology science, Urban protection and regeneration, Urban development strategy, Ecological construction and intelligent control, Sustainable infrastructure); (ii) Logistics and supply chain management (Warehousing and distribution, Logistics outsourcing, Logistics automation, Production and material flow, Supply chain management technology, Supply chain risk management, Global service supply chain management, Supply Chain Planning and Inventory Management, Coordination and collaboration of supply chain networks, Governance and regulatory aspects affecting supply chain management); (iii) Urban traffic management (Smart grid management, Belt and Road Development, Intelligent traffic analysis and planning management, Big data and transportation management). The Proceedings of ICUEMS 2022 will be useful to professionals, academics, and Ph.D. students interested in the above-mentioned fields. Emphasis was put on basic methodologies, scientific development and engineering applications. ICUEMS 2022 is to provide a

platform for experts, scholars, engineers and technical researchers engaged in the related fields of urban engineering management to share scientific research achievements and cutting-edge technologies, understand academic development trends, broaden research ideas, strengthen academic research and discussion, and promote the industrialization cooperation of academic achievements. Experts, scholars, business people and other relevant personnel from universities and research institutions at home and abroad are cordially invited to attend and exchange.

Introduction to Urban Science Nov 05 2022 A novel, integrative approach to cities as complex adaptive systems, applicable to issues ranging from innovation to economic prosperity to settlement patterns. Human beings around the world increasingly live in urban environments. In *Introduction to Urban Science*, Luis Bettencourt takes a novel, integrative approach to understanding cities as complex adaptive systems, claiming that they require us to frame the field of urban science in a way that goes beyond existing theory in such traditional disciplines as sociology, geography, and economics. He explores the processes facilitated by and, in many cases, unleashed for the first time by urban life through the lenses of social heterogeneity, complex networks, scaling, circular causality, and information. Though the idea that cities are complex adaptive systems has become mainstream, until now those who study cities have lacked a comprehensive theoretical framework for understanding cities and urbanization, for generating useful and falsifiable predictions, and for constructing a solid body of empirical evidence so that the discipline of urban science can continue to develop. Bettencourt applies his framework to such issues as innovation and development across scales, human reasoning and strategic decision-making, patterns of settlement and mobility and their influence on socioeconomic life and resource use, inequality and inequity, biodiversity, and the challenges of sustainable development in both high- and low-income nations. It is crucial, says

Bettencourt, to realize that cities are not "zero-sum games" and that knowledge, human cooperation, and collective action can build a better future.

Ecology of Urban Environments Sep 30 2019 Provides an accessible introduction to urban ecology, using established ecological theory to identify generalities in the complexity of urban environments. Examines the bio-physical processes of urbanization and how these influence the dynamics of urban populations, communities and ecosystems Explores the ecology of humans in cities Discusses practical strategies for conserving biodiversity and maintaining ecosystem services in urban environments Includes case studies with questions to improve retention and understanding

Charles Urban Jul 29 2019 Based on original research from Charles Urban's own papers, this is the first biography of this influential film maker and innovator. It is also a historical study of the development of the non-fiction film in Britain and America in the early years of cinema, told through the experiences of the leading pioneer of the form. Charles Urban was a renowned figure in his time, and he has remained a name in film history chiefly for his development of Kinemacolor, the world's first successful natural colour moving picture system. He was also a pioneer in the filming of war, science, travel, actuality and news, a fervent advocate of the value of film as an educative force, and a controversial but important innovator of film propaganda in wartime. The book uses Urban's story as a means of showing how the non-fiction film developed in the period 1897-1925, and the dilemmas that it faced within a cinema culture in which the entertainment fiction film was dominant. Urban's solutions - some successful, some less so - illustrate the groundwork that led to the development of documentary film. The book considers the roles of film as informer, educator and generator of propaganda, and the social and aesthetic function of colour in the years when cinema was still working out what it was capable of and how best to reach audiences. Luke McKernan also

curates a web resource on Charles Urban at www.charlesurban.com Winner of the Kraszna-Krausz Moving Image Book Award 2014.

Imagining Urban Futures Aug 10 2020 Carl Abbott, who has taught urban studies and urban planning in five decades, brings together urban studies and literary studies to examine how fictional cities in work by authors as different as E. M. Forster, Isaac Asimov, Kim Stanley Robinson, and China Miéville might help us to envision an urban future that is viable and resilient. *Imagining Urban Futures* is a remarkable treatise on what is best and strongest in urban theory and practice today, as refracted and intensely imagined in science fiction. As the human population grows, we can envision an increasingly urban society. Shifting weather patterns, rising sea levels, reduced access to resources, and a host of other issues will radically impact urban environments, while technology holds out the dream of cities beyond Earth. Abbott delivers a compelling critical discussion of science fiction cities found in literary works, television programs, and films of many eras from *Metropolis* to *Blade Runner* and *Soylent Green* to *The Hunger Games*, among many others.

Keio Economic Studies Feb 02 2020

Teaching Urban Morphology Aug 29 2019 This book brings together contributions from some of the foremost international experts in the field of urban morphology and addresses major questions such as: What exactly is urban morphology? Why teach it? What contents should be taught in an urban morphology course? And how can it be taught most effectively? Over the past few decades there has been a growing awareness of the importance of urban form in connection with the many dimensions - social, economic, and environmental - of our lives in cities. As a result, urban morphology - the science of urban form, and now over a century old - has taken on a key role in the debate on the past, present and future of cities. And yet it remains unclear how urban morphologists should convey

the main morphological theories, concepts and techniques to our students – the potential researchers of, and practitioners in, the urban landscapes of tomorrow. This book is the first to address that gap, providing concrete guidelines on how to teach urban morphology, complemented by EXAMPLES OF EXERCISES FROM THE AUTHORS' LESSONS.

The Urban Planet Mar 05 2020 Over 100 scientists, architects, journalists, artists and activists address creatively the unprecedented challenges facing an Urban Planet. This title is also available Open Access.

Digital City Science. Researching New Technologies in Urban Environments Oct 24 2021 How will science and technology shape future cities--and how do cities shape science and technology in return? Who are the actors behind these processes? Driven by a transdisciplinary approach, *Perspectives in Metropolitan Research 6* elaborates on the intertwinements of science, technology, and cities. The contributors discuss recent theoretical approaches at the interfaces between digitalization and cities and define their own role as a researcher. What are the assumptions that guide our view while researching? What does it mean to work in a transdisciplinary environment with a focus on the future of cities? In sum, this edition offers an overview of current perspectives on the Digital City. It is conceptualized as a forum for academic exchange on different methods, methodologies, measurements, and materials; on theories, treasures, toys, and tools; on power, prestige, problems, and perfection of/in Digital City Science.

Open Source Geospatial Science for Urban Studies Sep 03 2022 This book is mainly focused on two themes: transportation and smart city applications. Open geospatial science and technology is an increasingly important paradigm that offers the opportunity to promote the democratization of geographical information, the transparency of governments and institutions, as well as social,

economic and urban opportunities. During the past decade, developments in the area of open geospatial data have greatly increased. The open source GIS research community believes that combining free and open software, open data, as well as open standards, leads to the creation of a sustainable ecosystem for accelerating new discoveries to help solve global cross-disciplinary urban challenges. The vision of this book is to enrich the existing literature on this topic, and act one step towards more sustainable cities through employment of open source GIS solutions that are reproducible. Various contributions are provided and practically implemented in several urban use cases. Therefore, apart from researchers, lecturers and students in the geography/urbanism domain, crowdsourcing and VGI domain, as well as open source GIS domain, it is believed the specialists and mentors in municipalities and urban planning departments as well as professionals in private companies would be interested to read this book.

The Science and Practice of Urban Land Valuation Nov 12 2020

Big Data Science and Analytics for Smart Sustainable Urbanism Apr 17 2021 We are living at the dawn of what has been termed 'the fourth paradigm of science,' a scientific revolution that is marked by both the emergence of big data science and analytics, and by the increasing adoption of the underlying technologies in scientific and scholarly research practices. Everything about science development or knowledge production is fundamentally changing thanks to the ever-increasing deluge of data. This is the primary fuel of the new age, which powerful computational processes or analytics algorithms are using to generate valuable knowledge for enhanced decision-making, and deep insights pertaining to a wide variety of practical uses and applications. This book addresses the complex interplay of the scientific, technological, and social dimensions of the city, and what it entails in terms of the systemic implications for smart sustainable urbanism. In concrete terms, it

explores the interdisciplinary and transdisciplinary field of smart sustainable urbanism and the unprecedented paradigmatic shifts and practical advances it is undergoing in light of big data science and analytics. This new era of science and technology embodies an unprecedentedly transformative and constitutive power—manifested not only in the form of revolutionizing science and transforming knowledge, but also in advancing social practices, producing new discourses, catalyzing major shifts, and fostering societal transitions. Of particular relevance, it is instigating a massive change in the way both smart cities and sustainable cities are studied and understood, and in how they are planned, designed, operated, managed, and governed in the face of urbanization. This relates to what has been dubbed data-driven smart sustainable urbanism, an emerging approach based on a computational understanding of city systems and processes that reduces urban life to logical and algorithmic rules and procedures, while also harnessing urban big data to provide a more holistic and integrated view or synoptic intelligence of the city. This is increasingly being directed towards improving, advancing, and maintaining the contribution of both sustainable cities and smart cities to the goals of sustainable development. This timely and multifaceted book is aimed at a broad readership. As such, it will appeal to urban scientists, data scientists, urbanists, planners, engineers, designers, policymakers, philosophers of science, and futurists, as well as all readers interested in an overview of the pivotal role of big data science and analytics in advancing every academic discipline and social practice concerned with data-intensive science and its application, particularly in relation to sustainability.

Advances in Urban Engineering and Management Science Volume 2 Jan 27 2022 *Advances in Urban Engineering and Management Science* contains the selected papers resulting from the 2022 3rd International Conference on Urban Engineering and Management Science (ICUEMS 2022). Covering

a wide range of topics, the Proceedings of ICUEMS 2022 presents the latest developments in: (i) Architecture and Urban Planning (Architectural design and its theory, Urban planning and design, Building technology science, Urban protection and regeneration, Urban development strategy, Ecological construction and intelligent control, Sustainable infrastructure); (ii) Logistics and supply chain management (Warehousing and distribution, Logistics outsourcing, Logistics automation, Production and material flow, Supply chain management technology, Supply chain risk management, Global service supply chain management, Supply Chain Planning and Inventory Management, Coordination and collaboration of supply chain networks, Governance and regulatory aspects affecting supply chain management); (iii) Urban traffic management (Smart grid management, Belt and Road Development, Intelligent traffic analysis and planning management, Big data and transportation management). The Proceedings of ICUEMS 2022 will be useful to professionals, academics, and Ph.D. students interested in the above-mentioned fields. Emphasis was put on basic methodologies, scientific development and engineering applications. ICUEMS 2022 is to provide a platform for experts, scholars, engineers and technical researchers engaged in the related fields of urban engineering management to share scientific research achievements and cutting-edge technologies, understand academic development trends, broaden research ideas, strengthen academic research and discussion, and promote the industrialization cooperation of academic achievements. Experts, scholars, business people and other relevant personnel from universities and research institutions at home and abroad are cordially invited to attend and exchange.

Materialien zum Kursunterricht Englisch May 19 2021

Urban Histories of Science Sep 22 2021 This book tells ten urban histories of science from nine cities--Athens, Barcelona, Budapest, Buenos Aires, Dublin (2 articles), Glasgow, Helsinki, Lisbon, and
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Naples--situated on the geographical margins of Europe and beyond. Ranging from the mid-nineteenth to the early twentieth centuries, the contents of this volume debate why and how we should study the scientific culture of cities, often considered "peripheral" in terms of their production of knowledge. How were scientific practices, debates and innovations intertwined with the highly dynamic urban space around 1900? The authors analyze zoological gardens, research stations, observatories, and international exhibitions, along with hospitals, newspapers, backstreets, and private homes while also stressing the importance of concrete urban spaces for the production and appropriation of knowledge. They uncover the diversity of actors and urban publics ranging from engineers, scientists, architects, and physicians to journalists, tuberculosis patients, and fishermen. Looking at these nine cities around 1900 is like glancing at a prism that produces different and even conflicting notions of modernity. In their totality, the ten case studies help to overcome an outdated centre-periphery model. This volume is, thus, able to address far more intriguing historiographical questions. How do science, technology, and medicine shape the debates about modernity and national identity in the urban space? To what degree do cities and the heterogeneous elements they contain have agency? These urban histories show that science and the city are consistently and continuously co-constructing each other.

Darwin Comes to Town Jan 03 2020 With human populations growing, we're having an increasing impact on global ecosystems, and nowhere do these impacts overlap as much as they do in cities. "Urban ecologists" study how our manmade environments are changing the evolution of the animals and plants around us. Schilthuizen takes us around the world for an up-close look at just how stunningly flexible and swift-moving natural selection can be. He shows how the wildlife sharing these spaces with us is not just surviving, but evolving ways of thriving.

Urban Science and Engineering May 31 2022 p="" This book comprises select proceedings of the First International Conference on Urban Science and Engineering. The focus of the conference was on the milieu of urban planning while applying technology which ensures better urban life, coupled with sensitivity to depleting natural resources and focus on sustainable development. The contents focus on sustainable infrastructure, mobility and planning, urban water and sanitization, green construction materials, optimization and innovation in structural design, and more. This book aims to provide up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of urban science and engineering. This book is beneficial to students, researchers, and professionals working in the field of smart materials and sustainable development. ^

Urban Climate Science for Planning Healthy Cities Apr 29 2022 This volume demonstrates how urban climate science can provide valuable information for planning healthy cities. The book illustrates the idea of "Science in Time, Science in Place" by providing worldwide case-based urban climatic planning applications for a variety of regions and countries, utilizing relevant climatic-spatial planning experiences to address local climatic and environmental health issues. Comprised of three major sections entitled "The Rise of Mega-cities and the Concept of Climate Resilience and Healthy Living," "Urban Climate Science in Action," and "Future Challenges and the Way Forward," the book argues for the recognition of climate as a key element of healthy cities. Topics covered include: urban resilience in a climate context, climate responsive planning and urban climate interventions to achieve healthy cities, climate extremes, public health impact, urban climate-related health risk information, urban design and planning, and governance and management of sustainable urban development. The book will appeal to an international audience of practicing planners and

designers, public health and built environment professionals, social scientists, researchers in epidemiology, climatology and biometeorology, and international to city scale policy makers.

The Eclectic Magazine of Foreign Literature, Science, and Art Jun 27 2019

Natural Science Education, Indigenous Knowledge, and Sustainable Development in Rural and Urban Schools in Kenya Jul 21 2021

Through a multi-sited qualitative study of three Kenyan secondary schools in rural Taita Hills and urban Nairobi, the volume explores the ways the dichotomy between “Western” and “indigenous” knowledge operates in Kenyan education. In particular, it examines views on natural sciences expressed by the students, teachers, the state’s curricula documents, and schools’ exam-oriented pedagogical approaches. O’Hern and Nozaki question state and local education policies and practices as they relate to natural science subjects such as agriculture, biology, and geography and their dismissal of indigenous knowledge about environment, nature, and sustainable development. They suggest the need to develop critical postcolonial curriculum policies and practices of science education to overcome knowledge-oriented binaries, emphasize sustainable development, and address the problems of inequality, the center and periphery divide, and social, cultural, and environmental injustices in Kenya and, by implication, elsewhere. “In an era of environmental crisis and devastation, education that supports sustainability and survival of our planet is needed. Within a broader sociopolitical context of post-colonialism and globalization, this volume points out possibilities and challenges to achieve such an education. The authors propose a critical, postcolonial approach that acknowledges the contextual and situational production of all knowledge, and that de-dichotomizes indigenous from ‘Western’ scientific knowledge.” Eric (Rico) Gutstein, Professor, Curriculum and Instruction, University of Illinois at Chicago (USA)

Social Science and Urban Crisis Jun 19 2021

Improving Urban Science Education Nov 24 2021 Many would argue that the state of urban science education has been static for the past several decades and that there is little to learn from it. Rather than accepting this deficit perspective, *Improving Urban Science Education* strives to recognize and understand the successes that exist there by systematically documenting seven years of research into issues salient to teaching and learning in urban high school science classes.

Teaching and Learning in Urban Agricultural Community Contexts Oct 12 2020 This book fills a void in the literature around how urban agricultural education can be used to create opportunities to educate youth and citizens who live in urban areas about growing food. To date, very little has been written about program design and the impact of such experiences on learning outcomes. In fact, most of the journal articles and research to date has focused on access, contextual factors, sustainability, relevance of urban agricultural education, and the intersection of science of agriculture. This book will cover such topics as how urban youth learn science while engaged in urban agriculture programs, how such programs support youth in becoming interested about healthy eating and science more generally, and how to design urban agriculture programs in support of STEM education. The chapters in this book are written by educational researchers and each chapter has been reviewed by researchers and practitioners.

Being Interdisciplinary May 07 2020

Science Blogging Apr 05 2020 Here is the essential how-to guide for communicating scientific research and discoveries online, ideal for journalists, researchers, and public information officers looking to reach a wide lay audience. Drawing on the cumulative experience of twenty-seven of the greatest minds in scientific communication, this invaluable handbook targets the specific questions

and concerns of the scientific community, offering help in a wide range of digital areas, including blogging, creating podcasts, tweeting, and more. With step-by-step guidance and one-stop expertise, this is the book every scientist, science writer, and practitioner needs to approach the Wild West of the Web with knowledge and confidence.

Urban Landscape Ecology Oct 04 2022 The growth of cities poses ever-increasing challenges for the natural environment on which they impact and depend, not only within their boundaries but also in surrounding peri-urban areas. Landscape ecology is the study of interactions across space and time between the structure and function of physical, biological and cultural components of landscapes and has a pivotal role to play in identifying sustainable solutions. This book brings together examples of research at the cutting edge of urban landscape ecology across multiple contexts that investigate the state, maintenance and restoration of healthy and functional natural environments across urban and peri-urban landscapes. An explicit focus is on urban landscapes in contrast to other books which have considered urban ecosystems and ecology without specific focus on spatial connections. It integrates research and perspectives from across academia, public and private practitioners of urban conservation, planning and design. It provides a much needed summary of current thinking on how urban landscapes can provide the foundation of sustained economic growth, prospering communities and personal well-being.

Peterson's Annual Guides to Graduate Study Jan 15 2021

Proceedings of the 2015 International Conference on Materials Engineering and Environmental Science (MEES2015) Sep 10 2020 "This book consists of one hundred and nine selected papers presented at the 2015 International Conference on Materials Engineering and Environmental Science (MEES2015), which was successfully held in Wuhan, China during

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September 25-27, 2015. All papers selected for this proceedings were subjected to a rigorous peer-review process by at least two independent peers. The papers were selected based on innovation, organization, and quality of presentation. The MEES2015 covered a wide spectrum of research topics, ranging from fundamental studies, technical innovations, to industrial applications in Chemical Material and Chemical Processing Technology, Composite Materials, Alloy Materials and Metal Materials, Characteristics of Materials, Building Material and Construction Technology, Ecology and Environment, Technology for Environmental Protection, Economy and Environment, Mechanical and Control Engineering, and Manufacturing Technology. The MEES2015 brought together more than one hundred researchers from China, South Korea, Taiwan, Japan, Malaysia, and Saudi Arabia, and provided them with a forum to share, exchange and discuss new scientific development and future directions of Materials Engineering and Environmental Science."--Provided by publisher

Urban Services to Ecosystems Jun 07 2020 The aim of this book is to bring together multidisciplinary research in the field of green infrastructure design, construction and ecology. The main core of the volume is constituted by contributions dealing with green infrastructure, vegetation science, nature-based solutions and sustainable urban development. The green infrastructure and its ecosystem services, indeed, are gaining space in both political agendas and academic research. However, the attention is focused on the services that nature is giving for free to and for human health and survival. What if we start to see things from another perspective? Our actions shall converge for instance to turn man-made environment like cities from heterotrophic to autotrophic ecosystems. From landscape ecology to urban and building design, like bricks of a wall, from the small scale to the bigger landscape scale via ecological networks and corridors, we should start

answering these questions: what are the services that are we offering to Nature? What are we improving? How to implement our actions? This book contains three Open Access chapters, which are licensed under the terms of the Creative Commons Attribution 4.0 International License (CC BY 4.0).

Regaining the Edge in Urban Education Oct 31 2019 In order to remain competitive in the world economy, the United States must develop and improve mathematics and science education. Given that the future workforce in this country will be comprised largely of women and minorities, groups traditionally not entering mathematics and science careers, special recruitment and retention efforts must be developed. Urban community colleges enroll the largest numbers of women and minorities and have a special role to play in these efforts. This collection of articles reviews the status of mathematics-science education, identifies barriers to greater enrollment among women and minorities, examines the growing demand for skilled workers, and prescribes steps to be taken by urban colleges to train a more technical workforce. Included are the following 10 articles: (1) "Implications of the Mathematics-Science Crisis on the U.S. Economy," by Dennis P. Gallon; (2) "Student Participation in Mathematics and Science Programs," by Stelle Feuers; (3) "Federal Government Support for Mathematics and Sciences," by Carl Polowczyk; (4) "Breaking Down Barriers for Women and Minorities in Mathematics and Sciences," by Dianne Halleck; (5) "The Urban Climate and Strategies for Intervention," by Tom Hooe; (6) "Mathematics and Science Crisis: Implications for Educational Leaders of Urban Community Colleges," by Wright L. Lassiter, Jr.; (7) "Mathematics-Science Professors in Community Colleges," by P. M. Commons; (8) "Mandate for Action," by Frank Cerrato; (9) "Needed: An Applied Academics Program," by Dale Parnell; and (10) "Selected Sources and Exemplary Practices in Mathematics and Sciences at Community Colleges,"

by James Holmberg. (PAA)

The Popular Science Monthly Dec 02 2019

Greening Berlin Aug 22 2021 How plant and animal species conservation became part of urban planning in Berlin, and how the science of ecology contributed to this change. Although nature conservation has traditionally focused on the countryside, issues of biodiversity protection also appear on the political agendas of many cities. One of the emblematic examples of this now worldwide trend has been the German city of Berlin, where, since the 1970s, urban planning has been complemented by a systematic policy of “biotope protection”—at first only in the walled city island of West Berlin, but subsequently across the whole of the reunified capital. In *Greening Berlin*, Jens Lachmund uses the example of Berlin to examine the scientific and political dynamics that produced this change. After describing a tradition of urban greening in Berlin that began in the late nineteenth century, Lachmund details the practices of urban ecology and nature preservation that emerged in West Berlin after World War II and have continued in post-unification Berlin. He tells how ecologists and naturalists created an ecological understanding of urban space on which later nature-conservation policy was based. Lachmund argues that scientific change in ecology and the new politics of nature mutually shaped or “co-produced” each other under locally specific conditions in Berlin. He shows how the practices of ecologists coalesced with administrative practices to form an institutionally embedded and politically consequential “nature regime.” Lachmund's study sheds light not only on the changing place of nature in the modern city but also on the political use of science in environmental conflicts, showing the mutual formation of science, politics, and nature in an urban context.

Science, Technology and Innovation for Sustainable Urban Development in a Post-pandemic World
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Dec 14 2020 The report focuses on the contribution that STI practices make towards mitigating some of the most pressing sustainability challenges facing the urban socio-technical systems in a post-COVID-19 world. The report also assesses the urbanization trends and the impact of the pandemic on sustainable urban development. It identifies 12 key urban sustainability challenges: energy, circularity, water, mobility, economic prosperity and financial stability, housing, education, gender empowerment & equality, urban planning, healthcare, safety and security, and protection from natural disasters. For each category, a selection of practical STI solutions and innovative case studies worldwide are presented. Finally, the report calls for action at the national and international level to seize the innovation momentum from the COVID-19 pandemic and to use the transformative power of STI to deliver on the commitment to sustainable urban development. Governments should prioritize the STI solutions that ensure value for money and more efficient spending, focusing on activities that boost urban resilience. International cooperation efforts will be needed to further pool, formalize and transfer the available knowledge on effective STI solutions.

Advances in Urban Engineering and Management Science Volume 1 Aug 02 2022 Advances in Urban Engineering and Management Science contains the selected papers resulting from the 2022 3rd International Conference on Urban Engineering and Management Science (ICUEMS 2022). Covering a wide range of topics, the Proceedings of ICUEMS 2022 presents the latest developments in: (i) Architecture and Urban Planning (Architectural design and its theory, Urban planning and design, Building technology science, Urban protection and regeneration, Urban development strategy, Ecological construction and intelligent control, Sustainable infrastructure); (ii) Logistics and supply chain management (Warehousing and distribution, Logistics outsourcing, Logistics automation, Production and material flow, Supply chain management technology, Supply chain risk management,

Global service supply chain management, Supply Chain Planning and Inventory Management, Coordination and collaboration of supply chain networks, Governance and regulatory aspects affecting supply chain management); (iii) Urban traffic management (Smart grid management, Belt and Road Development, Intelligent traffic analysis and planning management, Big data and transportation management). The Proceedings of ICUEMS 2022 will be useful to professionals, academics, and Ph.D. students interested in the above-mentioned fields. Emphasis was put on basic methodologies, scientific development and engineering applications. ICUEMS 2022 is to provide a platform for experts, scholars, engineers and technical researchers engaged in the related fields of urban engineering management to share scientific research achievements and cutting-edge technologies, understand academic development trends, broaden research ideas, strengthen academic research and discussion, and promote the industrialization cooperation of academic achievements. Experts, scholars, business people and other relevant personnel from universities and research institutions at home and abroad are cordially invited to attend and exchange.

Urban Computing Jul 09 2020 An authoritative treatment of urban computing, offering an overview of the field, fundamental techniques, advanced models, and novel applications. Urban computing brings powerful computational techniques to bear on such urban challenges as pollution, energy consumption, and traffic congestion. Using today's large-scale computing infrastructure and data gathered from sensing technologies, urban computing combines computer science with urban planning, transportation, environmental science, sociology, and other areas of urban studies, tackling specific problems with concrete methodologies in a data-centric computing framework. This authoritative treatment of urban computing offers an overview of the field, fundamental techniques, advanced models, and novel applications. Each chapter acts as a tutorial that introduces readers to

an important aspect of urban computing, with references to relevant research. The book outlines key concepts, sources of data, and typical applications; describes four paradigms of urban sensing in sensor-centric and human-centric categories; introduces data management for spatial and spatio-temporal data, from basic indexing and retrieval algorithms to cloud computing platforms; and covers beginning and advanced topics in mining knowledge from urban big data, beginning with fundamental data mining algorithms and progressing to advanced machine learning techniques. Urban Computing provides students, researchers, and application developers with an essential handbook to an evolving interdisciplinary field.

Morphological Research in Planning, Urban Design and Architecture Feb 13 2021 This book is about the relation between scientific research and professional practice on the built environment. The physical form of cities is structured in different elements of urban form. Each of these elements, and the way they are combined into distinct patterns, is shaped by various agents and processes of change. Planning, urban design and architecture are practice-oriented activities that have a significant impact on these elements. Yet, this 'action' on the physical form of cities tends to be separated from scientific 'knowledge' on this complex object. In fact, none of these activities is strongly related to urban morphology, the science of urban form. There are many reasons for this gap. One of the reasons is the lack of significant examples of how the bridging process can happen. The book addresses this specific issue. It gathers a number of cases, developed in the last years in different geographical contexts - from Latin America to Eastern Asia - that exemplify how to move from scientific research to professional practice. Each case, or set of cases, is presented in one chapter. The first part of each chapter presents the morphological view of his/her author(s) on the process of city building; the second part exemplifies how this author moves from reading to design.

Urban Science Education for the Hip-Hop Generation Mar 29 2022 Christopher Emdin is an assistant professor of science education and director of secondary school initiatives at the Urban Science Education Center at Teachers College, Columbia University. He holds a Ph.D. in urban education with a concentration in mathematics, science and technology; a master's degree in natural sciences; and a bachelor's degree in physical anthropology, biology, and chemistry.

Management of Science-Intensive Organizations Dec 26 2021 This book examines what mechanisms enable science-intensive organizations to broaden beneficiaries of science in urban settings. Focusing on organizations that constitute urban resilience systems and networks, it maps the contributions of academic institutions, established multinationals, and entrepreneur firms in environmental, material, and related life sciences. It then develops a model of strategy and governance for organizations to invest in and implement new environmental material science projects. This book provides researchers with a framework based on management theories of R&D and resource allocation for resolving urban issues.