

Decoding The City Urbanism In The Age Of Big Data

This book has one central theme: how, in the United Kingdom, can we create better cities and towns in which to live and work and play? What can we learn from other countries, especially our near neighbours in Europe? And, in turn, can we provide lessons for other countries facing similar dilemmas?

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Urban Britain is not functioning as it should. Social inequalities and regional disparities show little sign of going away. Efforts to generate growth, and spread it to the poorer areas of cities, have failed dismally. Much new urban development and redevelopment is not up to standard. Yet there are cities in mainland Europe, which have set new standards of high-quality sustainable urban development. This book looks at these

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best-practice examples - in Germany, the Netherlands, France and Scandinavia, - and suggests ways in which the UK and other countries could do the same. The book is in three parts. Part 1 analyses the main issues for urban planning and development - in economic development and job generation, sustainable development, housing policy, transport and development mechanisms - and probes how practice in the UK has fallen short.

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Part Two embarks on a tour of best-practice cities in Europe, starting in Germany with the country's boosting of its cities' economies, moving to the spectacularly successful new housing developments in the Netherlands, from there to France's integrated city transport, then to Scandinavia's pursuit of sustainability for its cities, and finally back to Germany, to Freiburg - the city that 'did it all'. Part Three sums up the lessons of Part

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Two and sets out the key steps needed to launch a new wave of urban development and regeneration on a radically different basis.

“An interactive and empowering book” to help African American men and women create a new vision of better health and navigate the health care system (BET.com). According to the federal Office of Minority Health, African Americans “are affected by serious diseases and health conditions at far

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greater rates than other Americans.” In fact, African Americans suffer an estimated 85,000 excess deaths every year from diseases we know how to prevent: heart disease, stroke, cancer, high blood pressure, and diabetes. In this important and accessible book, Dr. Michelle Gourdine provides African Americans with the knowledge and guidance they need to take charge of their wellbeing. Reclaiming Our Health begins with an overview of the primary

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health concerns facing African Americans and explains who is at greatest risk of illness. Expanding on her career and life experiences as an African American physician, Dr. Gourdine presents key insights into the ways African American culture shapes health choices—how beliefs, traditions, and values can influence eating choices, exercise habits, and even the decision to seek medical attention. She translates extensive research into

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practical information and presents readers with concrete steps for achieving a healthier lifestyle, as well as strategies for navigating the health-care system. This interactive guide with illustrations is a vital resource for every African American on how to live a healthier and more empowered life, and an indispensable handbook for health-care providers, policy makers, and others working to close the health gap among people of

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color. Says Gourdine, "I wrote this book to empower our community to solve our own health problems and save our own lives."

There is a long history of governments, businesses, science and citizens producing and utilizing data in order to monitor, regulate, profit from and make sense of the urban world.

Recently, we have entered the age of big data, and now many aspects of everyday urban life are being captured

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as data and city management is mediated through data-driven technologies. Data and the City is the first edited collection to provide an interdisciplinary analysis of how this new era of urban big data is reshaping how we come to know and govern cities, and the implications of such a transformation. This book looks at the creation of real-time cities and data-driven urbanism and considers the relationships at play. By taking a

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philosophical, political, practical and technical approach to urban data, the authors analyse the ways in which data is produced and framed within socio-technical systems. They then examine the constellation of existing and emerging urban data technologies. The volume concludes by considering the social and political ramifications of data-driven urbanism, questioning whom it serves and for what ends. This book, the companion volume to 2016's Code and

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the City, offers the first critical reflection on the relationship between data, data practices and the city, and how we come to know and understand cities through data. It will be crucial reading for those who wish to understand and conceptualize urban big data, data-driven urbanism and the development of smart cities.

deCoding Asian Urbanism explores the current discourse and creation of innovative architecture and urban

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interventions that are effectively transforming the spatial and operational landscape of the complex Asian city. The book highlights efforts that strategically embrace the rapid growth and the cultural and physical complexity of the built environment in Asia. While the scale and pace of 21st-century urbanization are staggering and unprecedented, new urban development in Asia alone in the next two decades will likely exceed the urban growth

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worldwide of the last two hundred years. While Asian cities have historically drawn on their history and regional culture, this critical assimilation has been vastly superseded by the sheer velocity of urban growth inspired by external/global/western models. The phenomenal growth of Asian cities remains a challenge to their infrastructure, existing resources, and the roles that have traditionally constituted city-making in the broadest

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sense. Essays by some of the most prominent architects, historians, sociologists, urban designers, and activists across the globe provide unique perspectives on the diverse complexity of the Asian city. The book is extensively illustrated with project images, analytical diagrams, maps, and selected photographs. The essays and illustrations complement transcripts and images of spirited panel discussions from a symposium at Harvard

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University's South Asia Institute that reveal contemporary thinking and practice of design and planning in Asian cities. deCoding Asian Urbanism focuses on those critical interventions that go beyond globalization to achieve a substantive systemic innovation in the Asian City. The book is organized into three sections: Decoding the City, Mediating the City, and Transforming the City. These sections present the context, consider a strategic approach,

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and present transformational projects that revitalize, renew, and transform the complex urban environment and illustrate their key principles. The urban condition, the historical context, the proposed program, and the stated objectives of stakeholders are considered elements that inform and guide the formal and spatial responses.

Companion to Urban Design

Strategies in Computational Design

Introduction to Urban Science

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*A Guide to African American Wellness
The Elgar Companion to Urban
Infrastructure Governance*

*Advances in the Leading Paradigms of
Urbanism and their Amalgamation
Concepts, Methodologies, Tools, and
Applications*

Text and Image in the City

**Mysteries and folkways of New York City
revealed in an entertaining collection of graphic
art The life and legend of New York City, from the
size of its skyscrapers to the ways of its**

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inhabitants, is vividly captured in this lively collection of more than 250 maps, cross sections, flowcharts, tables, board games, cartoons and infographics, and other unique diagrams spanning 150 years. Superstars such as Saul Steinberg, Maira Kalman, Christoph Niemann, Roz Chast, and Milton Glaser butt up against the unsung heroes of the popular press in a book that is made not only for lovers of New York but also for anyone who enjoys or works with information design.

This book explores the recent advances in the

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leading paradigms of urbanism, namely compact cities, eco-cities, and data-driven smart cities, and the evolving approach to their amalgamation under the umbrella term of smart sustainable cities. It addresses these advances by investigating how and to what extent the strategies of compact cities and eco-cities and their merger have been enhanced and strengthened through new planning and development practices, and are being supported and leveraged by the applied solutions pertaining to data-driven smart cities. The

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ultimate goal is to advance sustainability and harness its synergistic effects on multiple scales. This entails developing and implementing more effective approaches to the balanced integration of the three dimensions of sustainability, as well as to producing combined effects of the strategies and solutions of the prevailing approaches to urbanism that are greater than the sum of their separate effects in terms of the tripartite value of sustainability. Sustainable urban development is today seen as one of the keys towards unlocking the quest for

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a sustainable world. And the big data revolution is set to erupt in cities throughout the world, heralding an era where instrumentation, datafication, and computation are increasingly pervading the very fabric of cities and the spaces we live in thanks to the IoT. Big data and the IoT technologies are seen as powerful forces that have tremendous potential for advancing urban sustainability. Indeed, they are instigating a massive change in the way sustainable cities can tackle the kind of special conundrums, wicked problems, and significant challenges they

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inherently embody as complex systems. They offer a multitudinous array of innovative solutions and sophisticated approaches informed by groundbreaking research and data-driven science. As such, they are becoming essential to the functioning of sustainable cities. Besides, yet knowing to what extent we are making progress towards sustainable cities is problematic, adding to the fragmented, conflicting picture that arises of change on the ground in the face of the escalating rate and scale of urbanization and in the light of emerging

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ICT and its novel applications. In a nutshell, new circumstances require new responses. This timely and multifaceted book is intended for a wide readership. As such, it will appeal to researchers, academics, urban scientists, urbanists, planners, designers, policy-makers, and futurists, as well as all readers interested in sustainable cities and their ongoing and future data-driven transformation.

In order to understand and improve cities today, personal observation remains as important as ever. While big data, digital mapping, and

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simulated cityscapes are valuable tools for understanding urban space, using them without on-the-ground, human impressions risks creating places that do not reflect authentic local context. Seeing the Better City brings our attention back to the real world right in front of us, focusing it once more on the sights, sounds, and experiences of place in order to craft policies, plans, and regulations to shape better urban environments. Through clear prose and vibrant photographs, Charles Wolfe shows those who experience cities how they might catalog

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the influences of urban form, neighborhood dynamics, public transportation, and myriad other basic city elements that impact their daily lives. He then shares insights into how they can use those observations to contribute to better planning and design decisions. Wolfe calls this the “urban diary” approach, and highlights how the perspective of the observer is key to understanding the dynamics of urban space. He concludes by offering contemporary examples and guidance on how to use carefully recorded and organized observations as a tool to create

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change in urban planning conversations and practice. From city-dwellers to elected officials involved in local planning and design issues, this book is an invaluable tool for constructive, creative discourse about improving urban space. Since cities emerged ten thousand years ago, they have become one of the most impressive artifacts of humanity. But their evolution has been anything but linear—cities have gone through moments of radical change, turning points that redefine their very essence. In this book, a renowned architect and urban planner

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who studies the intersection of cities and technology argues that we are in such a moment. The authors explain some of the forces behind urban change and offer new visions of the many possibilities for tomorrow's city. Pervasive digital systems that layer our cities are transforming urban life. The authors provide a front-row seat to this change. Their work at the MIT Senseable City Laboratory allows experimentation and implementation of a variety of urban initiatives and concepts, from assistive condition-monitoring bicycles to trash with

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embedded tracking sensors, from mobility to energy, from participation to production. They call for a new approach to envisioning cities: futurecraft, a symbiotic development of urban ideas by designers and the public. With such participation, we can collectively imagine, examine, choose, and shape the most desirable future of our cities.

The City of Tomorrow

A Spatialised Intelligence

Mediated Identities in the Futures of Place:

Emerging Practices and Spatial Cultures

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DeCoding Asian Urbanism

Urban Planning in the Digital Age

Manuscript, Print and Visual Culture in Urban Space

Urbanization Without Cities

Big Data, Code and the Discrete City

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

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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

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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-

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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. The relationship between infrastructure governance and the ways we read and represent waste systems, examined through

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three waste tracking and participatory sensing projects. Waste is material information. Landfills are detailed records of everyday consumption and behavior; much of what we know about the distant past we know from discarded objects unearthed by archaeologists and interpreted by historians. And yet the systems and infrastructures that process our waste often remain opaque. In this book, Dietmar Offenhuber examines waste from the perspective of information, considering emerging practices and technologies for

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making waste systems legible and how the resulting datasets and visualizations shape infrastructure governance. He does so by looking at three waste tracking and participatory sensing projects in Seattle, São Paulo, and Boston. Offenhuber expands the notion of urban legibility—the idea that the city can be read like a text—to introduce the concept of infrastructure legibility. He argues that infrastructure governance is enacted through representations of the infrastructural system, and that these representations stem

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from the different stakeholders' interests, which drive their efforts to make the system legible. The Trash Track project in Seattle used sensor technology to map discarded items through the waste and recycling systems; the Forager project looked at the informal organization processes of waste pickers working for Brazilian recycling cooperatives; and mobile systems designed by the city of Boston allowed residents to report such infrastructure failures as potholes and garbage spills. Through these case

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studies, Offenhuber outlines an emerging paradigm of infrastructure governance based on a complex negotiation among users, technology, and the city.

A comprehensive overview of the governance of urban infrastructures, this Companion combines illustrative cases with conceptual approaches to offer an innovative perspective on the governance of large urban infrastructure systems. Chapters examine the challenges facing urban infrastructure systems, including financial, economic,

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technological, social, ecological, jurisdictional and demand.

The integration of technology in education has provided tremendous opportunity for learners of all ages. In today's technology-focused society, the traditional classroom setting is being transformed through online learning platforms, collaborative and experimental methods, and digital educational resources that go hand-in-hand with non-digital learning devices. The Handbook of Research on Applied E-Learning in Engineering and

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Architecture Education reviews the latest research available on the implementation of digital tools and platforms within the framework of technical education, specifically in the subjects of architecture and engineering. Taking a global approach to the topic of online learning environments for technical education at all grade levels, this comprehensive reference work is ideally designed for use by educators, instructional designers, and researchers from around the world. This handbook contains pertinent

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research on a variety of educational topics including online learning platforms, mobile and blended learning, collaborative learning environments, gaming in education, informal learning, and educational assessment.

Principles and Best Practices

Learning and Collaboration Technologies

Decoding Asian Urbanism

Urbanism in the Age of Big Data

Breakthroughs in Research and Practice

Critical Practices in Architecture

How Europe Discovered the Lost Art of

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Urbanism

The Rise and Decline of Citizenship

The city at its best is an eco-community. Urbanization is not only a social and cultural fact of historic proportions; it is a tremendous ecological fact as well. We must explore modern urbanization and its impact on the natural environment, as well as the changes urbanization has produced in our sensibility towards society and toward the natural world. If ecological thinking is to be relevant to

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the modern human condition, we need a social ecology of the city. Technological changes have often produced important social changes that translate into spatial and planning practice. Whereas the intelligent city is one of the unavoidable and even dominant concepts, digital uses can influence urban planning in four different directions. These scenarios are represented by a compass composed of a horizontal axis opposing institutional and non-institutional actors, and a second axis with open and

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closed opposition.

This book examines the emerging problems and opportunities that are posed by media innovations, spatial typologies, and cultural trends in (re)shaping identities within the fast-changing milieus of the early 21st Century. Addressing a range of social and spatial scales and using a phenomenological frame of reference, the book draws on the works of Heidegger, Merleau-Ponty and Don Ihde to bridge the seemingly disparate, yet related theoretical perspectives across a number

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of disciplines. Various perspectives are put forward from media, human geography, cultural studies, technologies, urban design and architecture etc. and looked at thematically from networked culture and digital interface (and other) perspectives. The book probes the ways in which new digital media trends affect how and what we communicate, and how they drive and reshape our everyday practices. This mediatization of space, with fast evolving communication platforms and applications of digital representations,

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offers challenges to our notions of space, identity and culture and the book explores the diverse yet connected levels of technology and people interaction.

This volume presents over 200 selected original artworks from the collection of Betsy Beinecke Shirley, one of the great collectors of American children's literature. Shirley gathered an authoritative collection of books, original illustrations, manuscripts, as well as drawings and paintings from such children's classics as 'Treasure Island'

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and 'Eloise.' The artwork in Shirley's collection guides the reader on a tour through the stages of childhood reading, this volume begins with ABC's and nursery books. It continues through adventure stories, magazines, and more, then concludes with a miscellany section of odds and ends. The images demonstrate how children's books evolved, from the nation's first days of independence to modern times. Artists whose works are represented include many of the favorites, among them Ludwig Bemelmans, Maurice

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*Sendak, A.B. Frost, Wanda Gag, Peter
Newell, N.C. Wyeth, Tony Sarg, Robert
Lawson, and Johnny Gruelle.*

*Architecture and Design: Breakthroughs in
Research and Practice*

Reclaiming Our Health

*Sensors, Networks, Hackers, and the Future
of Urban Life*

Drawn to Enchant

Island of Diagrams, Maps, and Graphics

Decoding Manhattan

7th International Conference, DUXU 2018,

Held as Part of HCI International 2018,

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*Las Vegas, NV, USA, July 15-20, 2018,
Proceedings, Part II
Shaping Public Realms*

In the era of big data, this book explores the new challenges of urban-rural planning and management from a practical perspective based on a multidisciplinary project. Researchers as contributors to this book have accomplished their projects by using big data and relevant data mining technologies for investigating the possibilities of big data, such as that obtained through cell phones, social network systems and smart cards instead of conventional survey data

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for urban planning support. This book showcases active researchers who share their experiences and ideas on human mobility, accessibility and recognition of places, connectivity of transportation and urban structure in order to provide effective analytic and forecasting tools for smart city planning and design solutions in China.

Decoding the CityUrbanism in the Age of Big Data
DataBirkhäuser

The essays in this collection discuss how the city is ‘textualized’, and address many aspects of how texts and images are written and produced in, and about,

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cities. They demonstrate how urban texts and images provoke reactions, in city-dwellers, visitors, civic and political actors, that, in turn, impact upon the shape of the city itself. Many kinds of urban texts – both manuscript and print – are discussed, including chapbooks, periodicals, poetry, graffiti and street-signs. The essays derive from a range of disciplines including book history, urban history, cultural history, literary studies, art history and urban planning, and explore some key questions in urban cultural history, including the relationship between text, image and the city; the function of the text or image within an urban

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environment; how urban texts and images have been used by those in positions of power and by those with little or no power; the ways in which urban identity and values have been reflected in ‘street literature’, graffiti and subversive texts and images; and whether theories of urban space can help us to understand the relationship between text, image and the city. As such, this volume will serve to enhance the reader’s understanding of the nature of urbanism from a historical perspective, the creation and representation of urban space, and the processes of urbanization. It investigates how the creation, distribution and

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consumption of urban texts and images actively affect the shaping of the city itself – a mutually constitutive process whereby text, image and city create and sustain each other.

Technological evolutions have changed the field of architecture exponentially, leading to more stable and energy-efficient building structures. Architects and engineers must be prepared to further enhance their knowledge in the field in order to effectively meet new and advancing standards. Architecture and Design: Breakthroughs in Research and Practice is an authoritative resource for the latest research on the

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application of new technologies and digital tools that revolutionize the work of architects globally, aiding in architectural design, planning, implementation, and restoration. Highlighting a range of pertinent topics such as design anthropology, digital preservation, and 3D modeling, this publication is an ideal reference source for researchers, scholars, IT professionals, engineers, architects, contractors, and academicians seeking current research on the development and creation of architectural design.

How Our Greatest Invention Makes Us Richer, Smarter, Greener, Healthier, and Happier

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Untangling Smart Cities

Integrating Technologies, Platforms and Governance

Defining the Urban

The Experience in China

23rd HCI International Conference, HCII 2021,

Virtual Event, July 24–29, 2021, Proceedings, Part I

Infrastructure Legibility and Governance

Design Modelling Symposium Paris 2017

Data, Matter, Design presents a comprehensive overview of current design processes that rely on the input of data and use of computational design strategies, and their relationship to an array of

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outputs. Technological changes, through the use of computational tools and processes, have radically altered and influenced our relationship to cities and the methods by which we design architecture, urban, and landscape systems. This book presents a wide range of curated projects and contributed texts by leading architects, urbanists, and designers that transform data as an abstraction, into spatial, experiential, and performative configurations within urban ecologies, emerging materials, robotic agents, adaptive fields, and virtual constructs. Richly illustrated with over 200 images, *Data, Matter,*

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Design is an essential read for students, academics, and professionals to evaluate and discuss how data in design methodologies and theoretical discourses have evolved in the last two decades and why processes of data collection, measurement, quantification, simulation, algorithmic control, and their integration into methods of reading and producing spatial conditions, are becoming vital in academic and industry practices.

What is "urban"? How can it be described and contextualised? How is it used in theory and practice? Urban processes feature in key

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international policy and practice discourses. They are at the core of research agendas across traditional academic disciplines and emerging interdisciplinary fields. However, the concept of "the urban" remains highly contested, both as material reality and imaginary construct. The urban remains imprecisely defined. Defining the Urban is an indispensable guide for the urban transdisciplinary thinker and practitioner. Parts I and II focus on how "Academic Disciplines" and "Professional Practices," respectively, understand and engage with the urban. Included, among others, are Architecture, Ecology,

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Governance and Sociology. Part III, "Emerging Approaches," outlines how elements from theory and practice combine to form transdisciplinary tools and perspectives. Written by eminent experts in their respective fields, *Defining the Urban* provides a stepping stone for the development of a common language—a shared ontology—in the disjointed fields of urban research and practice. It is a comprehensive and accessible resource for anyone with an interest in understanding how urban scholars and practitioners can work together on this complex theme.

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Examining the changing nature of cities in the face of smart technology, this book studies key new challenges and capabilities defined by the Internet of Things, data science, blockchain and artificial intelligence. It argues that using algorithmic logic alone for automation and optimisation in modern smart cities is not sufficient, and analyses the importance of integrating this with strong participatory governance and digital platforms for community action.

This book offers a distinctive approach to the use of visual methodologies for qualitative architectural

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research. It presents a diverse selection of ways for the architect or architectural researcher to use their gaze as part of their research practice for the purpose of visual literacy. Its contributors explore and use 'critical visualizations', which employ observation and sociocultural critique through visual creations – texts, drawings, diagrams, paintings, visual texts, photography, film and their hybrid forms – in order to research architecture, landscape design and interior architecture. The visual methods intersect with those used in ethnography, anthropology, visual culture and media studies. In

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presenting a range of interdisciplinary approaches,
Visual Methodologies in Architectural Research
opens up territory for new forms of visual
architectural scholarship.

Original Children's Book Art in the Betsy Beinecke
Shirley Collection

From Utopian Dreams to Innovation Systems for a
Technology-Enabled Urban Sustainability

Innovation, Concepts and Cases

Good Cities, Better Lives

Waste Is Information

Interdisciplinary and Professional Perspectives

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The Routledge Companion to Paradigms of Performativity in Design and Architecture

Smart Cities in the Post-algorithmic Era

The three-volume set LNCS 10918, 10919, and 10290 constitutes the proceedings of the 7th International Conference on Design, User Experience, and Usability, DUXU 2018, held as part of the 20th International Conference on Human-Computer Interaction, HCII 2018, in Las Vegas, NV, USA in July 2018. The total of 1171 papers presented at the HCII 2018 conferences

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were carefully reviewed and selected from 4346 submissions. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of applications areas. The total of 165 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in this three-volume set. The 50 papers included in this volume are organized in topical sections on design, education and creativity, GUI, visualization and image design, multimodal

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DUXU, and mobile DUXU.

The MIT based SENSEable City Lab under Carlo Ratti is one of the research centers that deal with the flow of people and goods, but also of refuse that moves around the world. Experience with large-scale infrastructure projects suggest that more complex and above all flexible answers must be sought to questions of transportation or disposal. This edition, edited by Dietmar Offenhuber and Carlo Ratti, shows how Big Data change reality and, hence, the way we deal with the city.

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It discusses the impact of real-time data on architecture and urban planning, using examples developed in the SENSEable City Lab. They demonstrate how the Lab interprets digital data as material that can be used for the formulation of a different urban future. It also looks at the negative aspects of the city-related data acquisition and control. The authors address issues with which urban planning disciplines will work intensively in the future: questions that not only radically and critically review, but also change

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fundamentally, the existing tasks and how the professions view their own roles. The Bloomsbury Handbook of the Anthropology of Sound presents the key subjects and approaches of anthropological research into sound cultures. What are the common characteristics as well as the inconsistencies of living with and around sound in everyday life? This question drives research in this interdisciplinary area of sound studies: it propels each main chapter of this handbook into a thoroughly different world of listening,

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experiencing, receiving, sensing, dreaming, naming, desiring, and crafting sound. This handbook is composed of six sections: sonic artifacts; sounds and the body; habitat and sound; sonic desires; sounds and machines; and overarching sensologies. The individual chapters explore exemplary research objects and put them in the context of methodological approaches, historical predecessors, research practices, and contemporary research gaps. This volume offers therefore one of the broadest, most

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detailed, and instructive overviews on current research in this area of sensory anthropology.

Shortlisted for the Financial Times and McKinsey Best Book of the Year Award in 2011 "A masterpiece." —Steven D. Levitt, coauthor of Freakonomics "Bursting with insights." —The New York Times Book Review

A pioneering urban economist presents a myth-shattering look at the majesty and greatness of cities America is an urban nation, yet cities get a bad rap: they're dirty, poor, unhealthy, environmentally

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unfriendly . . . or are they? In this revelatory book, Edward Glaeser, a leading urban economist, declares that cities are actually the healthiest, greenest, and richest (in both cultural and economic terms) places to live. He travels through history and around the globe to reveal the hidden workings of cities and how they bring out the best in humankind. Using intrepid reportage, keen analysis, and cogent argument, Glaeser makes an urgent, eloquent case for the city's importance and splendor, offering inspiring proof

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that the city is humanity's greatest
creation and our best hope for the future.

Geospatial Research: Concepts,
Methodologies, Tools, and Applications

Dark Matters

Decoding the City

Using Time to Craft an Enduring, Resilient
and Relevant Architecture

Compact Cities, Eco-Cities, and

Data-Driven Smart Cities

Humanizing Digital Reality

A Manifesto for the Nocturnal City

Smart Cities

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Dark Matters explores the city at night as a place and time within which escape from the confines of the daytime is possible. More specifically, it is a state of being. There is a long history of nightwalking, often integral to shady worlds of miscreants, shift workers and transgressors. Yet the night offers much to be enjoyed beyond vice. Night by definition contrasts day, summoning notions of darkness and fear. But another night exists out there. Liberation and exhilaration in the urban landscape is increasingly rare when so much of our attention and actions are controlled. Rather than consider darkness as negative, opposed to illumination and enlightenment, this book explores the rich potential of the dark for our senses. The question may no longer be about what

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spaces we wish to engage with but when we do?

"For those who seek an urbanism of distinctiveness to enhance city livability, rather than a bland, generic uniformity, the book examines on a global basis how the many interrelated facets of an urban area's unique, yet dynamic context-built, cultural and intangible-can be championed and advanced, rather than simply borrowed from another place"--

Big Data, Code and the Discrete City explores how digital technologies are gradually changing the way in which the public space is designed by architects, managed by policymakers and experienced by individuals. Smart city technologies are superseding the traditional human experience that has characterised the making of the public space until

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today. This book examines how computers see the public space and the effect of algorithms, artificial intelligences and automated processes on the human experience in public spaces. Divided into three parts, the first part of this book examines the notion of discreteness in its origins and applications to computer sciences. The second section presents a dual perspective: it explores the ways in which public spaces are constructed by the computer-driven logic and then translated into control mechanisms, design strategies and software-aided design. This perspective also describes the way in which individuals perceive this new public space, through its digital logic, and discrete mechanisms (from Wi-Fi coverage to self-tracking). Finally, in the third part, this book

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scrutinises the discrete logic with which computers operate, and how this is permeating into aspects of city life. This book is valuable for anyone interested in urban studies and digital technologies, and more specifically in big data, urban informatics and public space.

Untangling Smart Cities: From Utopian Dreams to Innovation Systems for a Technology-Enabled Urban Sustainability helps all key stakeholders understand the complex and often conflicting nature of smart city research, offering valuable insights for designing and implementing strategies to improve the smart city decision-making processes. The book drives the reader to a better theoretical and practical comprehension of smart city development, beginning with a thorough and

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systematic analysis of the research literature published to date. It addition, it provides an in-depth understanding of the entire smart city knowledge domain, revealing a deeply rooted division in its cognitive-epistemological structure as identified by bibliometric insights. Users will find a book that fills the knowledge gap between theory and practice using case study research and empirical evidence drawn from cities considered leaders in innovative smart city practices. Provides clarity on smart city concepts and strategies Presents a systematic literature analysis on the state-of-the-art of smart cities' research using bibliometrics combined with practical applications Offers a comprehensive and systematic analysis of smart cities research produced during its first three decades

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Generates a strong connection between theory and practice by providing the scientific knowledge necessary to approach the complex nature of smart cities Documents five main development pathways for smart cities development, serving the needs of city managers and policymakers with concrete advice and guidance

Data, Matter, Design

Evidence and Theory of Cities as Complex Systems

The Unexamined

Seeing the Better City

Big Data Support of Urban Planning and Management

Handbook of Research on Applied E-Learning in Engineering

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and Architecture Education

HCI International 2021 - Late Breaking Posters

Having the ability to measure and explore the geographic space that surrounds us provides endless opportunities for us to utilize and interact with the world. As a broad field of study, geospatial research has applications in a variety of fields including military science, environmental science, civil engineering, and space exploration.

Geospatial Research: Concepts, Methodologies, Tools, and Applications is a multi-volume publication highlighting critical topics related to geospatial analysis, geographic information systems, and geospatial technologies. Exploring multidisciplinary applications of

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geographic information systems and technologies in addition to the latest trends and developments in the field, this publication is ideal for academic and government library inclusion, as well as for reference by data scientists, engineers, government agencies, researchers, and graduate-level students in GIS programs.

The Routledge Companion to Paradigms of Performativity in Design and Architecture focuses on a non-linear, multilateral, ethical way of design thinking, positioning the design process as a journey. It expands on the multiple facets and paradigms of performative design thinking as an emerging trend in design

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methodology. This edited collection explores the meaning of performativity by examining its relevance in conjunction with three fundamental principles: firmness, commodity and delight. The scope and broader meaning of performativity, performative architecture and performance-based building design are discussed in terms of how they influence today's design thinking. With contributions from 45 expert practitioners, educators and researchers, this volume engages theory, history, technology and the human aspects of performative design thinking and its implications for the future of design.

As cities compete globally, the Smart City has been

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touted as the important new strategic driver for regeneration and growth. Smart Cities are employing information and communication technologies in the quest for sustainable economic development and the fostering of new forms of collective life. This has made the Smart City an essential focus for engineers, architects, urban designers, urban planners, and politicians, as well as businesses such as CISCO, IBM and Siemens. Despite its broad appeal, few comprehensive books have been devoted to the subject so far, and even fewer have tried to relate it to cultural issues and to assume a truly critical stance by trying to decipher its consequences on urban space and experience. This cultural and critical lens is all

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the more important as the Smart City is as much an ideal permeated by Utopian beliefs as a concrete process of urban transformation. This ideal possesses a strong self-fulfilling character: our cities will become "Smart" because we want them to. This book opens with an examination of the technological reality on which Smart Cities are built, from the chips and sensors that enable us to monitor what happens within the infrastructure to the smartphones that connect individuals. Through these technologies, the urban space appears as activated, almost sentient. This activation generates two contrasting visions: on the one hand, a neo-cybernetic ambition to steer the city in the most efficient way; and

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on the other, a more bottom-up, participative approach in which empowered individuals invent new modes of cooperation. A thorough analysis of these two trends reveals them to be complementary. The Smart City of the near future will result from their mutual adjustment. In this process, urban space plays a decisive role. Smart Cities are contemporary with a "spatial turn" of the digital. Based on key technological developments like geo-localisation and augmented reality, the rising importance of space explains the strategic role of mapping in the evolution of the urban experience. Throughout this exploration of some of the key dimensions of the Smart City, this book constantly

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moves from the technological to the spatial as well as from a critical assessment of existing experiments to speculations on the rise of a new form of collective intelligence. In the future, cities will become smarter in a much more literal way than what is often currently assumed.

This book embraces the idea that in today's complex world, multiple, emerging perspectives are critical to the design fields, the environment, and society. It also brings authors into conversation to focus on the built environment from the perspective of critical practice. The authors take as a starting point Jane Rendell's groundbreaking work, which defines critical spatial practice as

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□self-reflective modes of thought that seek to change the world.□ In opposition to conventional conceptions of architectural education and work, this book reflects how socially engaged architects, landscape architects, designers, urbanists, and artists take up critical spatial practice. Bridging ideas from multiple countries and approaches to design scholarship, each chapter seeks to find places of convergence for the multiple strands that form around themes of practice, equality, methods, theory, ethics, pedagogy, and representation. Rendell's foreword and postscript provide context for these themes and suggest a way forward in today's challenging, changing times.

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How to Explore, Observe, and Improve Urban Space
Triumph of the City

Second International Conference, LCT 2015, Held as
Part of HCI International 2015, Los Angeles, CA, USA,
August 2-7, 2015, Proceedings

The Bloomsbury Handbook of the Anthropology of
Sound

Visual Research Methods in Architecture
Sustaining a City's Culture and Character

Data and the City

Design, User Experience, and Usability: Designing
Interactions

DeCoding Asian Urbanism explores those urban interventions

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that are crucial in shaping the physical and spatial environment of the Asian city. The book showcases interventions that are innovative and transformational in their ability to revitalize, renew and transform the urban environment. Through appropriate interventions in their evolving trajectories, the revitalization of our cities will embrace the vast majority of its citizens to benefit from the wide range of dynamics at these strategic global nodes.

Today the practice of urban design has forged a distinctive identity with applications at many different scales – ranging from the block or street scale to the scale of metropolitan and regional landscapes. Urban design interfaces many aspects of contemporary public policy – multiculturalism, healthy cities,

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environmental justice, economic development, climate change, energy conservations, protection of natural environments, sustainable development, community liveability, and the like. The field now comprises a core body of knowledge that enfolds a right history of ideas, paradigms, principles, tools, research and applications, enriched by electric influences from the humanities, and social and natural sciences. Companion to Urban Design includes more than fifty original contributions from internationally recognized authorities in the field. These contributions address the following questions: What are the important ideas that have shaped the field and the current practice of urban design? What are the major methods and processes that have influenced the practice of urban design at

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various scales? What are the current innovations relevant to the pedagogy of urban design? What are the lingering debates, conflicts and contradictions in the theory and practice of urban design? How could urban design respond to the contemporary challenges of climate change, sustainability, active living initiatives, globalization, and the like? What are the significant disciplinary influences on the theory, research and practice of urban design in recent times? There has never before been a more authoritative and comprehensive companion that includes core, foundational and pioneering ideas and concepts of urban design. This book serves as an invaluable guide for undergraduate and postgraduate students, future professionals, and practitioners interested in architecture, landscape

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architecture, and urban planning, but also in urban studies, urban affairs, geography, and related fields.

The LNCS volume 9192 constitutes the refereed proceedings of the Second International Conference on Learning and Collaboration Technologies, LCT 2015, held as part of the 17th International Conference on Human-Computer Interaction, HCII 2015, in Los Angeles, CA, USA in August 2015, jointly with 15 other thematically similar conferences. The total of 1462 papers and 246 posters presented at the HCII 2015 conferences were carefully reviewed and selected from 4843 submissions. These papers address addressing the following major topics: technology-enhanced learning, adaptive and personalised learning and assessment, virtual worlds and virtual agents for learning,

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collaboration and Learning Serious Games and ICT in education.

This book aims at finding some answers to the questions: What is the influence of humans in controlling CAD and how much is human in control of its surroundings? How far does our reach as humans really go? Do the complex algorithms that we use for city planning nowadays live up to their expectations and do they offer enough quality? How much data do we have and can we control? Are today's inventions reversing the humanly controlled algorithms into a space where humans are controlled by the algorithms? Are processing power, robots for the digital environment and construction in particular not only there to rediscover what we already knew and know or do they really

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*bring us further into the fields of constructing and architecture?
The chapter authors were invited speakers at the 6th Symposium
"Design Modelling Symposium: Humanizing Digital Reality",
which took place in Ensa-Versailles, France from 16 - 20
September 2017.*