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Domino Effects in the Process Industries - Valerio Cozzani
2013-07-08

Blast waves, fires and fragment projection are by far the most common causes of escalation leading to domino accidents. The present chapter deals with less-frequent and more controversial domino scenarios: domino events due to indirect escalation and external events. Indirect causes of escalation, even if not frequent, may be extremely important since they are likely to be overlooked, in particular in complex industrial clusters. External hazard factors can also cause severe domino accidents. Natural events or intentional malicious acts of interference can escalate to cause severe domino events. The present chapter focuses on these particular causes of escalations, aiming to provide an approach for the assessment of these specific domino scenarios.

Virtualpolitik - Elizabeth Mathews Losh 2009

Government media-making, from official websites to whistleblowers' e-mail, and its sometimes unintended consequences. Today government

agencies not only have official Web sites but also sponsor moderated chats, blogs, digital video clips, online tutorials, videogames, and virtual tours of national landmarks. Sophisticated online marketing campaigns target citizens with messages from the government--even as officials make news with digital gaffes involving embarrassing e-mails, instant messages, and videos. In *Virtualpolitik*, Elizabeth Losh closely examines the government's digital rhetoric in such cases and its dual role as mediamaker and regulator. Looking beyond the usual focus on interfaces, operations, and procedures, Losh analyzes the ideologies revealed in government's digital discourse, its anxieties about new online practices, and what happens when officially sanctioned material is parodied, remixed, or recontextualized by users. Losh reports on a video game that panicked the House Intelligence Committee, pedagogic and therapeutic digital products aimed at American soldiers, government Web sites in the weeks and months following 9/11, PowerPoint presentations by government officials and gadflies, e-mail as a channel for

whistleblowing, digital satire of surveillance practices, national digital libraries, and computer-based training for health professionals. Losh concludes that the government's "virtualpolitik"--its digital realpolitik aimed at preserving its own power--is focused on regulation, casting as criminal such common online activities as file sharing, video-game play, and social networking. This policy approach, she warns, indefinitely postpones building effective institutions for electronic governance, ignores constituents' need to shape electronic identities to suit their personal politics, and misses an opportunity to learn how citizens can have meaningful interaction with the virtual manifestations of the state.

Multidisciplinary Approaches to Ethics in the Digital Era - Taskiran, Meliha Nurdan 2021-03-18

The digital era has redefined our understanding of ethics as a multidisciplinary phenomenon. The newness of the internet means it is still highly unregulated, which allows for rampant problems encountered by countless internet users. In order to establish a framework to protect digital citizenship, an academic understanding of online ethics is required. Multidisciplinary Approaches to Ethics in the Digital Era examines the concept of ethics in the digital environment through the framework of digitalization. Covering a broad range of topics including ethics in art, organizational ethics, and civil engineering ethics, this book is ideally designed for media professionals, sociologists, programmers, policymakers, government officials, academicians, researchers, and students.

Urban and Regional Data Management - Claire Ellul 2013-05-23

The Urban Data Management Society has organised international symposia at

various locations throughout Europe since 1971, and UDMS 2013 marks its second visit to London. From its outset, UDMS has highlighted changes and trends in urban data and urban data management. However, the rate of emergence of new data and new technologies has never been as **Healthcare and the Effect of Technology: Developments, Challenges and Advancements** - Kabene, Stéfane M. 2010-03-31

"This book examines current developments and challenges in the incorporation of ICT in the health system from the vantage point of patients, providers, and researchers. The authors take an objective, realistic view of the shift that will result for patients, providers, and the healthcare industry in general from the increased use of eHealth services"--Provided by publisher.

Network Science - Albert-László Barabási 2016-07-21

Illustrated throughout in full colour, this pioneering text is the only book you need for an introduction to network science.

Recent Developments in Foresight Methodologies - Maria Giaoutzi 2012-11-28

Foresight is an area within Futures Studies that focuses on critical thinking concerning long term developments, whether within the public sector or in industry and management, and is something of a sub-section of complexity and network science. This book examines developments in foresight methodologies and relates in its greater part to the work done in the context of the COSTA22 network of the EU on Foresight Methodologies. Foresight is a professional practice that supports significant decisions, and as such it needs to be more assured of its claims to knowledge (methodology). Foresight is practiced across many domains and is not the

preserve of specialized 'futurists', or indeed of foresight specialists. However, the disciplines of foresight are not well articulated or disseminated across domains, leading to re-inventions and practice that does not make best use of experience in other domains. The methodological development of foresight is an important task that aims at strengthening the pool of the tools available for application, thereby empowering the actors involved in foresight practice. Elaborating further on methodological issues, such as those presented in the present book, enables the actors involved in foresight to begin to critique current practice from this perspective and, thirdly, to begin to design foresight practice. The present trends towards methodological concerns indicates a move from 'given' expert-predicted futures to one in which futures are nurtured through a dialogue among "stakeholders." The book has four parts, each elaborating on a set of aspects of foresight methodologies. After an introductory section, Part II considers theorizing about foresight methodologies. Part III covers system content issues, and Part IV presents foresight tools and approaches.

Social Informatics - Karl Aberer
2012-11-27

This book constitutes the proceedings of the 4th International Conference on Social Informatics, SocInfo 2012, held in Lausanne, Switzerland, in December 2012. The 21 full papers, 18 short papers included in this volume were carefully reviewed and selected from 61 submissions. The papers are organized in topical sections named: social choice mechanisms in the e-society, computational models of social phenomena, social simulation, web mining and its social interpretations, algorithms and

protocols inspired by human societies, socio-economic systems and applications, trust, privacy, risk and security in social contexts. *Student Engagement and Participation: Concepts, Methodologies, Tools, and Applications* - Management Association, Information Resources
2017-06-19

The delivery of quality education to students relies heavily on the actions of an institution's administrative staff. Effective teaching strategies allow for the continued progress of modern educational initiatives. *Student Engagement and Participation: Concepts, Methodologies, Tools, and Applications* provides comprehensive research perspectives on the multi-faceted issues of student engagement and involvement within the education sector. Including innovative studies on learning environments, self-regulation, and classroom management, this multi-volume book is an ideal source for educators, professionals, school administrators, researchers, and practitioners in the field of education.

Bursts - Albert-Laszlo Barabasi
2010-04-29

A revolutionary new theory showing how we can predict human behavior - from a radical genius and bestselling author Can we scientifically predict our future? Scientists and pseudo scientists have been pursuing this mystery for hundreds and perhaps thousands of years. But now, astonishing new research is revealing patterns in human behavior previously thought to be purely random. Precise, orderly, predictable patterns... Albert Laszlo Barabasi, already the world's preeminent researcher on the science of networks, describes his work on this profound mystery in *Bursts*, a stunningly original investigation into human nature. His approach relies on the digital

reality of our world, from mobile phones to the Internet and email, because it has turned society into a huge research laboratory. All those electronic trails of time stamped texts, voicemails, and internet searches add up to a previously unavailable massive data set of statistics that track our movements, our decisions, our lives. Analysis of these trails is offering deep insights into the rhythm of how we do everything. His finding? We work and fight and play in short flourishes of activity followed by next to nothing. The pattern isn't random, it's "bursty." Randomness does not rule our lives in the way scientists have assumed up until now. Illustrating this revolutionary science, Barabasi artfully weaves together the story of a 16th century burst of human activity-a bloody medieval crusade launched in his homeland, Transylvania-with the modern tale of a contemporary artist hunted by the FBI through our post 9/11 surveillance society. These narratives illustrate how predicting human behavior has long been the obsession, sometimes the duty, of those in power. Barabási's astonishingly wide range of examples from seemingly unrelated areas include how dollar bills move around the U.S., the pattern everyone follows in writing email, the spread of epidemics, and even the flight patterns of albatross. In all these phenomena a virtually identical, mathematically described bursty pattern emerges. Bursts reveals what this amazing new research is showing us about where individual spontaneity ends and predictability in human behavior begins. The way you think about your own potential to do something truly extraordinary will never be the same.

The City is Me - Rosane Araujo 2013
This book proposes a new way of

understanding the relationship between the city and personal identity. Interrogates the decentralization and fragmentation of personal identity in the globalized world. Rethinks urbanism that corresponds to risk, uncertainty of today's cities.

Start With Why - Simon Sinek
2011-10-06

THE MILLION-COPY GLOBAL BESTSELLER - BASED ON THE LIFE-CHANGING TED TALK! WHAT READERS ARE SAYING ABOUT START WITH WHY: 'It's amazing how a book can change the course of your life, and this book did that' Reader Review 'Imagine the Ted Talk expanded to 2 hours long, with more depth, intrigue and examples' Reader Review 'What he does brilliantly is demonstrate his own why - to inspire others - throughout' Reader Review 'Wow. Wow. Wow. I cannot rate this book highly enough to take a different, positive approach to life and work' Reader Review Discover your purpose with one simple question: why? Why are some people more inventive, pioneering and successful than others? And why are they able to repeat their success again and again? Because it doesn't matter what you do, it matters WHY you do it. Those who have had the greatest influence in the world all think, act, and communicate in the same way - and it's the opposite to most. In Start with Why, Simon Sinek uncovers the fundamental secret of their success - understanding their WHY - to help you find your own. How you lead, inspire, live, it all starts with why. ***** 'This book is so impactful, I consider it required reading' Tony Robbins, bestselling author of Awaken The Giant Within 'One of the most useful and powerful books I have read in years' William Ury, co-author of Getting to Yes
How Globalization Works - Laura La Bella 2009-08-15
Others view globalization as a threat

to American jobs, workers, and consumers, not to mention the health and well-being of foreign workers who may be exploited, harassed, and underpaid. This book cuts through all the political rhetoric, erroneous assumptions, and myths about globalization to explain, in an even-handed and uncomplicated manner what it is, how it works, why it has developed, and who it helps and harms. A history of the phenomenon places the current debates in context and helps illustrate the basic mechanisms of global trade in goods, services, and labor. The potential benefits along with the possible drawbacks are presented, and the narrative remains neutral on globalization's ethical or social value. Instead, it simply explains how globalization works on the theoretical level and in actual, observable, real-world ways. Includes helpful sidebars such as "Myths and Facts about Globalization" and "Ten Great Questions about Globalization to Ask an Economist."

Semiotics Unbounded - Susan Petrilli
2005-01-01

The more human knowledge increases, the more signs grow and, with this expansion, the more the boundaries of the science that studies signs also grows. In *Semiotics Unbounded*, Susan Petrilli and Augusto Ponzio explain the explosion of the sign network in the era of global communication and discuss the important theoretical responses offered by semiotics. Providing a much-needed introductory guide to the subject, Petrilli and Ponzio explore the ever-growing frontiers of semiotics through the thought of prominent sign scholars such as Charles Peirce, Victoria Welby, Mikhail Bakhtin, Charles Morris, and Thomas Sebeok. In an era of global communication, a global approach is necessary, and what may seem to be the whole, is only a part

- a view being at once globalizing and open. Each and every sign is never self-sufficient and closed but exists always in a relation of otherness. This is true of the signs forming animals and human beings, individuals and communities, and involves the implication of all living beings in the life of all others. *Semiotics Unbounded* offers a new and original survey of the science of signs, evaluating it in relation to the problems of our time, not only of a scientific order, but also the problems concerning everyday social life.

Complexity and Sustainability -
Jennifer Wells 2013

Introduction -- Elucidating complexity theories -- Complexity in the natural sciences -- Complexity in social theory -- Towards transdisciplinarity -- Complexity in philosophy: complexification and the limits to knowledge -- Complexity in ethics -- Earth in the anthropocene -- Complexity and climate change -- American dreams, ecological nightmares and new visions -- Complexity and sustainability: wicked problems, gordian knots and synergistic solutions -- Conclusion.

Knowledge Management in Organisations - Lorna Uden 2022-07-04

This book contains the refereed proceedings of the 16th International Conference on Knowledge Management in Organizations, KMO 2022, held in Hagen, Germany, in July 2022. The 24 full papers and 5 short papers accepted for KMO 2022 were selected from 61 submissions and are organized in topical sections on: □ knowledge transfer and sharing; knowledge and organization; knowledge and service innovation; industry 4.0; information and knowledge systems; intelligent science; AI and new trends in KM.

Theodoret's People - Adam M. Schor
2011-05-17

"Adam Schor explores the social and

doctrinal role of Theodoret in a novel and lively way, making use of social theory, and seeing Theodoret's activities and contacts against the rich documentation provided by the great ecclesiastical controversies of his time." –Fergus Millar, author of *A Greek Roman Empire: Power and Belief under Theodosius II, 408-450*

"Schor's proposal that modern social network theory is the key to understanding Theodoret of Cyrus's social positioning and mode of controversy makes for compelling reading. His nuanced yet powerful analysis shows the continued relevance of socio-scientific methods for understanding the history of late antique Christianity." –Richard Lim, author of *Public Disputation, Power and Social Order in Late Antiquity*

"Adam Schor has written a lively and incisive study of a notoriously difficult era. Mining the substantial (but greatly understudied) letter collections of the times, applying the insights of network theory, and boldly taking on the entire corpus of Theodoret's writings—an ambitious project in itself—Schor has produced strikingly fresh material throughout. With rich insight and rigorous attention to detail, Schor opens new vistas on the late antique landscape. Thought-provoking at every turn!"

Susan Ashbrook Harvey, author of *Scenting Salvation: Ancient Christianity and the Olfactory Imagination*

Computing in Research and Development in Africa - Abdoulaye Gamatié
2014-10-11

This book describes the trends, challenges and solutions in computing use for scientific research and development within different domains in Africa, such as health, agriculture, environment, economy, energy, education and engineering. The benefits expected are discussed by a number of recognized, domain-

specific experts, with a common theme being computing as solution enabler. This book is the first document providing such a representative up-to-date view on this topic at the continent level.

Everything Is Connected - Jason Gruhl
2019-02-05

A magical meditation on the powerful idea that we are connected to everything and everyone. Playful illustrations and funny, rhyming text show readers all of the many ways we are linked to every big, small, hairy, slimy, snuggly, scaly, floppy, flappy, bristly, buzzy, beautiful creature on Earth. "One of Bala Kids's inaugural releases, this waggish picture book takes its title to heart, emphasizing readers' connection to an eclectic roundup of people, objects, and phenomena."—Publishers Weekly

"Jason Gruhl invokes Dr. Seuss with some light rhyming and brings up everything that entrances children—tarantulas, slime, comets, you name it. Ignasi Font's visually complex and incredibly funny illustrations (a blobfish that looks like Squidward?) will keep kids observing even on the hundredth read. The book is destined to become a dharma classic."—Tricycle

Everything is connected. And since you are part of everything, you are connected to everything: to pharaohs, Ben Franklin, T. Rex, ancient Greece, to love and to poverty, hunger and peace!

Greek and Roman Networks in the Mediterranean - Irad Malkin
2013-09-13

How useful is the concept of "network" for historical studies and the ancient world in particular? Using theoretical models of social network analysis, this book illuminates aspects of the economic, social, religious, and political history of the ancient Greek and

Roman worlds. Bringing together some of the most active and prominent researchers in ancient history, this book moves beyond political institutions, ethnic, and geographical boundaries in order to observe the ancient Mediterranean through a perspective of network interaction. It employs a wide range of approaches, and to examine relationships and interactions among various social entities in the Mediterranean. Chronologically, the book extends from the early Iron Age to the late Antique world, covering the Mediterranean between Antioch in the east to Massalia (Marseilles) in the west. This book was published as two special issues in *Mediterranean Historical Review*.

Linked - Albert-laszlo Barabasi
2014-06-24

In the 1980's, James Gleick's *Chaos* introduced the world to complexity. Now, Albert-László Barabási's *Linked* reveals the next major scientific leap: the study of networks. We've long suspected that we live in a small world, where everything is connected to everything else. Indeed, networks are pervasive--from the human brain to the Internet to the economy to our group of friends. These linkages, it turns out, aren't random. All networks, to the great surprise of scientists, have an underlying order and follow simple laws. Understanding the structure and behavior of these networks will help us do some amazing things, from designing the optimal organization of a firm to stopping a disease outbreak before it spreads catastrophically. In *Linked*, Barabási, a physicist whose work has revolutionized the study of networks, traces the development of this rapidly unfolding science and introduces us to the scientists carrying out this pioneering work. These "new cartographers" are mapping networks in a wide range of

scientific disciplines, proving that social networks, corporations, and cells are more similar than they are different, and providing important new insights into the interconnected world around us. This knowledge, says Barabási, can shed light on the robustness of the Internet, the spread of fads and viruses, even the future of democracy. Engaging and authoritative, *Linked* provides an exciting preview of the next century in science, guaranteed to be transformed by these amazing discoveries. From *Linked*: This book has a simple message: think networks. It is about how networks emerge, what they look like, and how they evolve. It aims to develop a web-based view of nature, society, and technology, providing a unified framework to better understand issues ranging from the vulnerability of the Internet to the spread of diseases. Networks are present everywhere. All we need is an eye for them... We will see the challenges doctors face when they attempt to cure a disease by focusing on a single molecule or gene, disregarding the complex interconnected nature of the living matter. We will see that hackers are not alone in attacking networks: we all play Goliath, firing shots at a fragile ecological network that, without further support, could soon replicate our worst nightmares by turning us into an isolated group of species... *Linked* is meant to be an eye-opening trip that challenges you to walk across disciplines by stepping out of the box of reductionism. It is an invitation to explore link by link the next scientific revolution: the new science of networks.

Smart Business Networks - Peter H.M. Vervest 2005-12-14

Scientists from management and strategy, information systems, engineering and telecommunications

have discussed a novel concept: Smart Business Networks. They see the future as a developing web of people and organizations, bound together in a dynamic and unpredictable way, creating smart outcomes from quickly (re-)configuring links between actors. The question is: What should be done to make the outcomes of such a network 'smart', that is, just a little better than that of your competitor? More agile, with less pain, with more return to all the members of the network, now and over time? The technical answer is to create a 'business operating system' that should run business processes on different organisational platforms. Business processes would become portable: The end-to-end management of processes running across many different organizations in many different forms would become possible. This book presents you the outcomes of an energizing and new direction in management science.

Reclaiming a Scientific Anthropology
- Lawrence A. Kuznar 2008-09-11

This second edition of *Reclaiming a Scientific Anthropology* arrives at just the right time, as new advances in science increasingly affect anthropologists of all stripes. Lawrence Kuznar begins by reviewing the basic issues of scientific epistemology in anthropology as they have taken shape over the life of the discipline. He then describes postmodern and other critiques of both science and scientific anthropology, and he concludes with stringent analyses of these debates. This new edition brings this important text firmly into the 21st century; it not only updates the scholarly debates but it describes new research techniques—such as computer modeling systems—that could not have been imagined just a decade ago. In a field that has become increasingly divided over basic

methods of research and interpretation, Kuznar makes a powerful argument that anthropology should return to its roots in empirical science.

Computational Science and Its Applications -- ICCSA 2015 - Osvaldo Gervasi 2015-06-19

The five-volume set LNCS 9155-9159 constitutes the refereed proceedings of the 15th International Conference on Computational Science and Its Applications, ICCSA 2015, held in Banff, AB, Canada, in June 2015. The 232 revised full papers presented in 22 workshops and a general track were carefully reviewed and selected from 780 initial submissions for inclusion in this volume. They cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security.

Global Information Technologies: Concepts, Methodologies, Tools, and Applications - Tan, Felix B. 2007-10-31

"This collection compiles research in all areas of the global information domain. It examines culture in information systems, IT in developing countries, global e-business, and the worldwide information society, providing critical knowledge to fuel the future work of researchers, academicians and practitioners in fields such as information science, political science, international relations, sociology, and many more"-
-Provided by publisher.

Multi-Chaos, Fractal and Multi-Fractional Artificial Intelligence of Different Complex Systems - Yeliz Karaca 2022-06-22

Multi-Chaos, Fractal and Multi-Fractional Artificial Intelligence of Different Complex Systems addresses different uncertain processes inherent in the complex systems, attempting to provide global and

robust optimized solutions distinctively through multifarious methods, technical analyses, modeling, optimization processes, numerical simulations, case studies as well as applications including theoretical aspects of complexity. Foregrounding Multi-chaos, Fractal and Multi-fractional in the era of Artificial Intelligence (AI), the edited book deals with multi-chaos, fractal, multifractional, fractional calculus, fractional operators, quantum, wavelet, entropy-based applications, artificial intelligence, mathematics-informed and data driven processes aside from the means of modelling, and simulations for the solution of multifaceted problems characterized by nonlinearity, non-regularity and self-similarity, frequently encountered in different complex systems. The fundamental interacting components underlying complexity, complexity thinking, processes and theory along with computational processes and technologies, with machine learning as the core component of AI demonstrate the enabling of complex data to augment some critical human skills. Appealing to an interdisciplinary network of scientists and researchers to disseminate the theory and application in medicine, neurology, mathematics, physics, biology, chemistry, information theory, engineering, computer science, social sciences and other far-reaching domains, the overarching aim is to empower out-of-the-box thinking through multifarious methods, directed towards paradoxical situations, uncertain processes, chaotic, transient and nonlinear dynamics of complex systems. Constructs and presents a multifarious approach for critical decision-making processes embodying paradoxes and uncertainty. Includes a

combination of theory and applications with regard to multi-chaos, fractal and multi-fractional as well as AI of different complex systems and many-body systems. Provides readers with a bridge between application of advanced computational mathematical methods and AI based on comprehensive analyses and broad theories. *Cloudonomics* - Joe Weinman 2012-07-05 The ultimate guide to assessing and exploiting the customervalue and revenue potential of the Cloud A new business model is sweeping the world—the Cloud. And, as with any new technology, there is a great deal of fear, uncertainty, and doubt surrounding cloud computing. *Cloudonomics* radically upends the conventional wisdom, clearly explains the underlying principles and illustrates through understandable examples how Cloud computing can create compelling value—whether you are a customer, a provider, a strategist, or an investor. *Cloudonomics* covers everything you need to consider for the delivery of business solutions, opportunities, and customer satisfaction through the Cloud, so you can understand it—and put it to work for your business. *Cloudonomics* also delivers insight into when to avoid the cloud, and why. Quantifies how customers, users, and cloud providers can collaborate to create win-wins Reveals how to use the Laws of *Cloudonomics* to define strategy and guide implementation Explains the probable evolution of cloud businesses and ecosystems Demolishes the conventional wisdom on cloud usage, IT spend, community clouds, and the enterprise-provider cloud balance Whether you're ready for it or not, Cloud computing is here to stay. *Cloudonomics* provides deep insights into the business value of the Cloud for executives,

practitioners, and strategists in virtually any industry—not just technology executives but also those in the marketing, operations, economics, venture capital, and financial fields.

The Perfect Swarm - Len Fisher
2009-11-17

The process of "self-organization" reveals itself in the inanimate worlds of crystals and seashells, but, as Len Fisher shows, it is also evident in living organisms, from fish to ants to human beings. Understanding the "swarm intelligence" inherent in groups can help us do everything from throw a better party to start a fad to make our interactions with others more powerful. Humorous and enlightening, *The Perfect Swarm* demonstrates how complexity arises from nature's simple rules and how we can use their awesome power to untangle the frustrating complexities of life in our ever more chaotic world.

Global Health - Mark Nichter
2008-04-24

In this lesson-packed book, Mark Nichter, one of the world's leading medical anthropologists, summarizes what more than a quarter-century of health social science research has contributed to international health and elucidates what social science research can contribute to global health and the study of biopolitics in the future. Nichter focuses on our cultural understanding of infectious and vector-borne diseases, how they are understood locally, and how various populations respond to public health interventions. The book examines the perceptions of three groups whose points of view on illness, health care, and the politics of responsibility often differ and frequently conflict: local populations living in developing countries, public health practitioners working in

international health, and health planners/policy makers. The book is written for both health social scientists working in the fields of international health and development and public health practitioners interested in learning practical lessons they can put to good use when engaging communities in participatory problem solving. *Global Health* critically examines representations that frame international health discourse. It also addresses the politics of what is possible in a world compelled to work together to face emerging and re-emerging diseases, the control of health threats associated with political ecology and defective modernization, and the rise of new assemblages of people who share a sense of biosociality. The book proposes research priorities for a new program of health social science research. Nichter calls for greater involvement by social scientists in studies of global health and emphasizes how medical anthropologists in particular can better involve themselves as scholar activists.

Social Media and the Good Life - Mark Y. Herring
2015-06-15

Social media have accelerated communication, expanded business horizons and connected millions of individuals who otherwise would never have met. But not everything social media touch turns to gold—much of it is brass. Social networking sites are used by scammers, criminals and sexual predators, and many people now self-diagnose illness based on misinformation shared online. Businesses make great claims about social media as a marketing tool but few show any real returns. We communicate through social media but are we really saying anything? Is social media doomed to be a conduit of narcissism or can it become a channel for responsible

communication? Can social networking overcome its manifold violations of privacy? Must we sacrifice our identities in order to tweet or "friend" our associates? This book examines some of the legal and ethical issues surrounding social media, their impact on civil discourse and their role in suicides, murders and criminal enterprise.

Domino Effects in the Process Industries - Genserik Reniers
2013-07-08

Domino Effects in the Process Industries discusses state-of-the-art theories, conceptual models, insights and practical issues surrounding large-scale knock-on accidents—so-called domino effects—in the chemical and process industries. The book treats such extremely low-frequency phenomena from a technological perspective, studying possible causes and introducing several approaches to assess and control the risks of these scenarios. The authors also examine these events from a managerial viewpoint, discussing single and multi-plant management insights and requirements to take pro-active measures to prevent such events. Academics, regulators, and industrialists who study and analyze domino effects in order to prevent such events will find the book unique and highly valuable. Outlines available methods in analyzing these events, aiding understanding of the accidents and their causes Covers current modelling, control and management tactics of domino effects, -facilitating prevention Identifies areas where new research is needed

Advanced Manufacturing and Automation IX - Yi Wang 2020-01-03

This book presents selected papers from the 9th International Workshop of Advanced Manufacturing and Automation (IWAMA 2019), held in Plymouth, UK, on November 21–22, 2019. Discussing topics such as novel

techniques for manufacturing and automation in Industry 4.0 and smart factories, which are vital for maintaining and improving economic development and quality of life, it offers researchers and industrial engineers insights into implementing the concepts and theories of Industry 4.0, in order to effectively respond to the challenges posed by the 4th industrial revolution and smart factories.

Simplicity of Complexity in Economic and Social Systems - Dariusz Grech
2020-11-08

This book presents the Proceedings of the 54th Winter School of Theoretical Physics on Simplicity of Complexity in Economic and Social Systems, held in Łądek Zdrój, Poland, from 18 to 24 February 2018. The purpose of the book is to introduce the new interdisciplinary research that links statistical physics, and particular attention is given to link physics of complex systems, with financial analysis and sociology. The main tools used in these areas are numerical simulation of agents behavior and the interpretation of results with the help of complexity methods, therefore a background in statistical physics and in physics of phase transition is necessary to take the first steps towards these research fields called econophysics and sociophysics. In this perspective, the book is intended to graduated students and young researchers who want to begin the study of this established new area, which connects physicists, economists, sociologists and IT professionals, to better understand complexity phenomena existing not only in physics but also in complex systems being seemingly far from traditional view at physics.

Intelligent Data Engineering and Analytics - Suresh Chandra Satapathy
2020-08-29

This book gathers the proceedings of the 8th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020), held at NIT Surathkal, Karnataka, India, on 4–5 January 2020. In these proceedings, researchers, scientists, engineers and practitioners share new ideas and lessons learned in the field of intelligent computing theories with prospective applications in various engineering disciplines. The respective papers cover broad areas of the information and decision sciences, and explore both the theoretical and practical aspects of data-intensive computing, data mining, evolutionary computation, knowledge management and networks, sensor networks, signal processing, wireless networks, protocols and architectures. Given its scope, the book offers a valuable resource for graduate students in various engineering disciplines.

Spatio-Temporal Narratives - Ana Crespo Solana 2014-06-02

This book explores new methods and techniques for research about merchant networks and maritime routes of trade during the First Global Age through the use of Geographic Information Systems (GIS) as a tool to visualize the formation of trading systems, database management, cartography and spatio-temporal analysis in Historical GIS. In doing so, the book focuses on key issues in understanding the birth of the so-called First Global Age (16th to 18th centuries): the integration of spatial economies; the regionalization of markets; the organization of maritime trade routes; and the evolution of self-organizing networks of merchants, producers, communities, and other social agents during the age of expansion. The essays collected here deal with relevant information about historical problems including

maritime connections, the organization of oceanic trade and the use of digital cartography and metric analysis of old maps, and social network analysis – commercial networks involved a high level of cooperation and served to move goods and people within a highly open system over an expanding geographic space.

The Formula - Albert-László Barabási 2018-11-06

In the bestselling tradition of Malcolm Gladwell, James Gleick, and Nate Silver, prominent professor László Barabási gives us a trailblazing book that promises to transform the very foundations of how our success-obsessed society approaches their professional careers, life pursuits and long-term goals. Too often, accomplishment does not equal success. We did the work but didn't get the promotion; we played hard but weren't recognized; we had the idea but didn't get the credit. We convince ourselves that talent combined with a strong work ethic is the key to getting ahead, but also realize that combination often fails to yield results, without any deeper understanding as to why. Recognizing this striking disconnect, the author, along with a team of renowned researchers and some of the most advanced data-crunching systems on the planet, dedicated themselves to one goal: uncovering that ever-elusive link between performance and success. Now, based on years of academic research, *The Formula* finally unveils the groundbreaking discoveries of their pioneering study, not only highlighting the scientific and mathematic principles that underpin success, but also revolutionizing our understanding of: Why performance is necessary but not adequate Why "Experts" are often wrong How to assemble a creative team primed for success How to most

effectively engage our networks "This is not just an important but an imperative project: to approach the problem of randomness and success using the state of the art scientific arsenal we have. Barabasi is the person."-Nassim Nicholas Taleb, author of the New York Times bestselling *The Black Swan* and Distinguished Professor of Risk Engineering at NYU

The Contemporary CFO - Michael Haupt
2021-11-03

The digital revolution is changing our world and the fundamentals of business faster than anyone expected, and the responsibility for leading key aspects of enterprise-wide business transformation often falls to the Chief Financial Officer (CFO). This book provides motivation and guidance for current and future finance leaders to navigate an increasingly unpredictable, dynamic, complex and connected world. As businesses are forced to change fundamentally or accept the reality of being left behind, the CFO has a particularly important part to play in preparing for this change - not only for their own function but for the business as a whole. So what is the role of CFOs in delivering digital business transformation? What can they do to manage business resources and performance more dynamically? How can CFOs contribute to the creation and management of new business models, such as digital business platforms and ecosystems? And what can finance leaders do to enable sustainable growth and long-term multi-stakeholder value creation? These and many more key questions are tackled in *The Contemporary CFO*, which draws on practical experience of transforming leading global businesses and on extensive, original research, including in-depth interviews with a wide range of corporate leaders. CFOs

are used to managing change but delivering a complex business transformation on top of an already demanding role can be challenging. This essential guide includes the latest thinking, trends and perspectives to help finance leaders navigate the demands of the connected world successfully.

E-Business Innovation and Process Management - Lee, In 2006-12-31

E-business research is currently one of the most active research areas. With the rapid advancement in information technologies, e-business is growing in significance and is having a direct impact upon ways of doing business. As e-business becomes one of the most important areas in organizations, researchers and practitioners need to understand the implications of many technological and organizational changes taking place. *Advances in E-Business Research: E-Business Innovation and Process Management* provides researchers and practitioners with valuable information on recent advances and developments in emerging e-business models and technologies. This book covers a variety of topics, such as e-business models, e-business strategies, online consumer behavior, e-business process modeling and practices, electronic communication adoption and service provider strategies, privacy policies, and implementation issues.

Annual Review of Information Science and Technology - Blaise Cronin 2004

ARIST, published annually since 1966, is a landmark publication within the information science community. It surveys the landscape of information science and technology, providing an analytical, authoritative, and accessible overview of recent trends and significant developments. The range of topics varies considerably, reflecting the dynamism of the discipline and the diversity of

theoretical and applied perspectives. While ARIST continues to cover key topics associated with "classical" information science (e.g., bibliometrics, information retrieval), editor Blaise Cronin is selectively expanding its footprint in an effort to connect information science more tightly with cognate academic and professional communities.

Electronic Government: Concepts,

Methodologies, Tools, and Applications - Anttiroiko, Ari-Veikko
2008-03-31

Provides research on e-government and its implications within the global context. Covers topics such as digital government, electronic justice, government-to-government, information policy, and cyber-infrastructure research and methodologies.