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### KEY=MANUALS - IBARRA WALLS

### ELEMENTS OF THE COMPARATIVE GRAMMAR OF THE INDO-GERMANIC LANGUAGES

### A CONCISE EXPOSITION OF THE HISTORY OF SAMSKRIT, OLD IRANIAN ... OLD ARMENIAN, OLD GREEK, LATIN, UMBRIAN-SAMNITIC, OLD IRISH, GOTHIC, OLD HIGH GERMAN, LITHUANIAN AND OLD BULGARIAN

### PASSION, CRAFT, AND METHOD IN COMPARATIVE POLITICS

*JHU Press* In the first collection of interviews with the most prominent scholars in comparative politics since World War II, Gerardo L. Munck and Richard Snyder trace key developments in the field during the twentieth century. Organized around a broad set of themes -- intellectual formation and training; major works and ideas; the craft and tools of research; colleagues, collaborators, and students; and the past and future of comparative politics -- these in-depth interviews offer unique and candid reflections that bring the research process to life and shed light on the human dimension of scholarship. Giving voice to scholars who practice their craft in different ways yet share a passion for knowledge about global politics, *Passion, Craft, and Method in Comparative Politics* offers a wealth of insights into contemporary debates about the state of knowledge in comparative politics and the future of the field. -- Margaret Keck, Johns Hopkins University

### IDEA MAN

### A MEMOIR BY THE CO-FOUNDER OF MICROSOFT

*Penguin UK* By his early thirties, Paul Allen was a world-famous billionaire-and that was just the beginning. In 2007 and 2008, *Time* named Paul Allen, the cofounder of Microsoft, one of the hundred most influential people in the world. Since he made his fortune, his impact has been felt in science, technology, business, medicine, sports, music, and philanthropy. His passion, curiosity, and intellectual rigor combined with the resources to launch and support new initiatives-have literally changed the world. In 2009 Allen discovered that he had lymphoma, lending urgency to his desire to share his story for the first time. In this long-awaited memoir, Allen explains how he has solved problems, what he's learned from his many endeavors-both the triumphs and the failures-and his compelling vision for the future. He reflects candidly on an extraordinary life. The book also features previously untold stories about everything from the true origins of Microsoft to Allen's role in the dawn of private space travel (with SpaceShipOne) and in discoveries at the frontiers of brain science. With honesty, humor, and insight, Allen tells the story of a life of ideas made real.

### DATA ANALYTICS AND MANAGEMENT

### PROCEEDINGS OF ICDAM

*Springer Nature* This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2020), held at Jan Wyzykowski University, Poland, during June 2020. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students.

### PC MAG

*PCMag.com* is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

### MATHEMATICS UNDER THE MICROSCOPE

### NOTES ON COGNITIVE ASPECTS OF MATHEMATICAL PRACTICE

*American Mathematical Soc.* The author's goal is to start a dialogue between mathematicians and cognitive scientists. He discusses, from a working mathematician's point of view, the mystery of mathematical intuition: why are certain mathematical concepts more intuitive than others? To what extent does the "small scale" structure of mathematical concepts and algorithms reflect the workings of the human brain? What are the "elementary particles" of mathematics that build up the mathematical universe? The book is saturated with amusing examples from a wide range of disciplines--from turbulence to error-correcting codes to logic--as well as with just puzzles and brainteasers. Despite the very serious subject matter, the author's approach is lighthearted and entertaining. This is an unusual and unusually fascinating book. Readers who never thought about mathematics after their school years will be amazed to discover how many habits of mind, ideas, and even material objects that are inherently mathematical serve as building blocks of our civilization and everyday life. A professional mathematician, reluctantly breaking the daily routine, or pondering on some resisting problem, will open this book and enjoy a sudden return to his or her young days when mathematics was fresh, exciting, and holding all promises. And do not take the word "microscope" in the title too literally: in fact, the author looks around, in time and space, focusing in turn on a tremendous variety of motives, from mathematical "memes" (genes of culture) to an unusual life of a Hollywood star. --Yuri I. Manin, Max-Planck Institute of Mathematics, Bonn, and Northwestern University

### CANFIELD GUIDE TO CLASSICAL RECORDINGS

### THE TRIATHLETE'S TRAINING DIARY

### YOUR ULTIMATE TOOL FOR FASTER, STRONGER RACING

Endurance athletes of all ages and ability levels invest countless hours in tough rides and workouts so they can race farther and faster from year to year. Whether they work with a coach or train independently, triathletes rely on their training log to tell them when to push harder and when to back off. With all of the recent technological advancements in training, it is more important than ever to have a place to consolidate training data, track progress, reshape goals throughout the season, and, perhaps most importantly, listen to the way the body responds from day to day. Designed with collaboration from triathletes and coaches, this next generation of training diary will make it easier than ever to record and interpret every component of multisport training and is an ideal companion to Joe Friel's bestselling book *The Triathlete's Training Bible* but can easily be used independently for whatever training program you choose. Coach Joe Friel gives athletes a thorough introduction to the essential details of training and keeping a log. For athletes who are designing their own annual training schedule, he provides a guide to planning the entire season. With 53 undated weekly spreads, these diaries are the most comprehensive training logs available with space for: every training detail, from weather conditions to resting heart rate and daily nutrition charts to organize race results and fitness indicators physiological test results such as VO2max and lactate threshold two-a-day workouts and weekly summary data specific to triathlon *The Triathlete's Training Diary* takes training seriously. Athletes can be confident that they will be better prepared for competition and have insight to the progress made along the way.

### ACTUARIES' SURVIVAL GUIDE

### HOW TO SUCCEED IN ONE OF THE MOST DESIRABLE PROFESSIONS

*Academic Press* This book explains what actuaries are, what they do, and where they do it. It describes the ideas, techniques, and skills involved in the day-to-day work of actuaries. This second edition has been updated to reflect the rise of social networking and the internet, the progress toward a global knowledge-based economy, and the global expansion of the actuarial field that has occurred since the first edition. --from publisher description

### SIMPSON'S FORENSIC MEDICINE

*CRC Press* This fully updated thirteenth edition of *Simpson's Forensic Medicine* remains a classic introductory text to the field. Continuing its tradition of preparing the next generation of forensic practitioners, it presents essential concepts in the interface between medicine and the law. Twenty-four chapters cover basic science, toxicology, forensic odontology

### PC MAG

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### COMPUTATIONAL SCIENCE AND ITS APPLICATIONS -- ICCSA 2013

### 13TH INTERNATIONAL CONFERENCE, HO CHI MINH CITY, VIETNAM, JULY 24-27, 2013, PROCEEDINGS, PART I

*Springer* The five-volume set LNCS 7971-7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications, ICCSA 2013, held in Ho Chi Minh City, Vietnam, in June 2013. Apart from the general track, ICCSA 2013 also include 33 special sessions and workshops, in various areas of computational sciences, ranging from computational science

technologies, to specific areas of computational sciences, such as computer graphics and virtual reality. There are 46 papers from the general track, and 202 in special sessions and workshops.

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#### RECENT ADVANCES IN TECHNOLOGY RESEARCH AND EDUCATION

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#### PROCEEDINGS OF THE 16TH INTERNATIONAL CONFERENCE ON GLOBAL RESEARCH AND EDUCATION INTER-ACADEMIA 2017

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*Springer* This book presents selected contributions to the 16th International Conference on Global Research and Education Inter-Academia 2017 hosted by Alexandru Ioan Cuza University of Iași, Romania from 25 to 28 September 2017. It is the third volume in the series, following the editions from 2015 and 2016. Fundamental and applied research in natural sciences have led to crucial developments in the ongoing 4th global industrial revolution, in the course of which information technology has become deeply embedded in industrial management, research and innovation – and just as deeply in education and everyday life. Materials science and nanotechnology, plasma and solid state physics, photonics, electrical and electronic engineering, robotics and metrology, signal processing, e-learning, intelligent and soft computing have long since been central research priorities for the Inter-Academia Community (I-AC) – a body comprising 14 universities and research institutes from Japan and Central/East-European countries that agreed, in 2002, to coordinate their research and education programs so as to better address today's challenges. The book is intended for use in academic, government, and industrial R&D departments as a reference tool in research and technology education. The 42 peer-reviewed papers were written by more than 119 leading scientists from 14 countries, most of them affiliated to the I-AC.

#### PROCEEDINGS OF INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE, SMART GRID AND SMART CITY APPLICATIONS

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#### AISGSC 2019

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*Springer Nature* Due to the complexity, and heterogeneity of the smart grid and the high volume of information to be processed, artificial intelligence techniques and computational intelligence appear to be some of the enabling technologies for its future development and success. The theme of the book is "Making pathway for the grid of future" with the emphasis on trends in Smart Grid, renewable interconnection issues, planning-operation-control and reliability of grid, real time monitoring and protection, market, distributed generation and power distribution issues, power electronics applications, computer-IT and signal processing applications, power apparatus, power engineering education and industry-institute collaboration. The primary objective of the book is to review the current state of the art of the most relevant artificial intelligence techniques applied to the different issues that arise in the smart grid development.

#### CLINICAL CARE AND REHABILITATION IN HEAD AND NECK CANCER

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*Springer* Malignancies involving structures of the head and neck frequently impact the most fundamental aspects of human existence, namely, those functions related to voice and speech production, eating, and swallowing. Abnormalities in voice production, and in some instances its complete loss, are common following treatment for laryngeal (voice box) cancer. Similarly, speech, eating, and swallowing may be dramatically disrupted in those where oral structures (e.g., the tongue, jaw, hard palate, pharynx, etc.) are surgically ablated to eliminate the cancer. Consequently, the range and degree of deficits that may be experienced secondary to the treatment of head and neck cancer (HNCA) are often substantial. This need is further reinforced by the Centers for Disease Control and Prevention who have estimated that the number of individuals who will be newly diagnosed with HNCA will now double every 10 years. This estimate becomes even more critical given that an increasing number of those who are newly diagnosed will be younger and will experience the possibility of long-term survival post-treatment. Contemporary rehabilitation efforts for those treated for HNCA increasingly demand that clinicians actively consider and address multiple issues. Beyond the obvious concerns specific to any type of cancer (i.e., the desire for curative treatment), clinical efforts that address physical, psychological, communicative, and social consequences secondary to HNCA treatment are essential components of all effective rehabilitation programs. Comprehensive HNCA rehabilitation ultimately seeks to restore multiple areas of functioning in the context of the disabling effects of treatment. In this regard, rehabilitation often focuses on restoration of function while reducing the impact of residual treatment-related deficits on the individual's overall functioning, well-being, quality of life (QOL), and ultimately, optimize survivorship. Regardless of the treatment method(s) pursued for HNCA (e.g., surgery, radiotherapy, chemoradiation, or combined methods), additional problems beyond those associated with voice, speech, eating and swallowing frequently exist. For example, post-treatment changes in areas such as breathing, maintaining nutrition, limitations in physical capacity because surgical reconstruction such as deficits in shoulder functioning, concerns specific to cosmetic alterations and associated disfigurement, and deficits in body image are common. Those treated for HNCA also may experience significant pain, depression, stigma and subsequent social isolation. Concerns of this type have led clinicians and researchers to describe HNCA as the most emotionally traumatic form of cancer. It is, therefore, essential that clinicians charged with the care and rehabilitation of those treated for HNCA actively seek to identify, acknowledge, and systematically address a range of physical, psychological, social, and communication problems. Efforts that systematically consider this range of post-treatment sequelae are seen as critical to any effort directed toward enhanced rehabilitation outcomes. Actively and purposefully addressing post-treatment challenges may increase the likelihood of both short- and long-term rehabilitation success in this challenging clinical population. Current information suggests that successful clinical outcomes for those with HNCA are more likely to be realized when highly structured, yet flexible interdisciplinary programs of care are pursued. Yet contemporary educational resources that focus not only on management of voice, speech, eating, and swallowing disorders, but also address issues such as shoulder dysfunction due to neck dissection, the significant potential for cosmetic alterations can offer a much broader perspective on rehabilitation. Contemporary surgical treatment frequently involves reconstruction with extensive procedures that require donor sites that include both soft tissue from a variety of locations (e.g., forearm, thigh, etc.), as well as bone (e.g., the scapula). Collectively, resources that address these issues and many other concerns and the resultant social implications of HNCA and its treatment can serve to establish a comprehensive framework for clinical care. Consequently, providing a highly specialized and comprehensive educational resource specific to HNCA rehabilitation is currently needed. The proposed edited book is designed to address this void in a single authoritative resource that is also accessible to the clinical readership. Integral to this proposed book is information that guides clinical approaches to HNCA rehabilitation, in addition to offering emphasis on the direct impact of changes in voice, speech, and swallowing and the impact of such losses on outcomes. Finally, while several other published sources currently exist (see attached list), the emphasis of these books is directed either toward the identification and diagnosis of malignant disease, clinical and surgical pathology, associated efforts directed toward biomedical aspects of cancer and its treatment, or those with a focus on a single clinical problem or approach to rehabilitation. Therefore, the content of the proposed multi-chapter text centers on delivering a systematically structured, comprehensive, and clinically-oriented presentation on a range of topics that will provide readers at a variety of levels with a strong, well-integrated, and empirically driven foundation to optimize the clinical care of those with HNCA. The primary audience for this textbook is undergraduate and graduate-level students in Speech-Language Pathology, as well as practitioners, especially hospital-based practitioners, in Speech-Language Pathology; other key audiences include junior and senior level otolaryngology residents and fellows, translational researchers in head and neck cancer, related medical specialists (e.g., radiation oncology), oncology nurses, and potentially other rehabilitation professionals such as occupational therapists, counseling psychologists, social workers, and rehabilitation counselors.

#### SOFTWARE FOR COMPUTER CONTROL 1986

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#### SELECTED PAPERS FROM THE FOURTH IFAC/IFIP SYMPOSIUM, GRAZ, AUSTRIA, 20-23 MAY 1986

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*Pergamon* This volume studies the advances of software for computers, their development, applications and management. Topics covered include software project management, real time languages and their uses, and computer aided design techniques. The book also discusses how far artificial intelligence is integrated with business and industry to give a complete overview of the role of computer systems today.

#### GENERALIZED METHOD OF MOMENTS ESTIMATION

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*Cambridge University Press* The principal objective of this volume is to offer a complete presentation of the theory of GMM estimation.

#### MACHINE LEARNING AND KNOWLEDGE DISCOVERY IN DATABASES

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#### EUROPEAN CONFERENCE, ECML PKDD 2020, GHENT, BELGIUM, SEPTEMBER 14-18, 2020, PROCEEDINGS, PART III

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*Springer Nature* The 5-volume proceedings, LNAI 12457 until 12461 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases, ECML PKDD 2020, which was held during September 14-18, 2020. The conference was planned to take place in Ghent, Belgium, but had to change to an online format due to the COVID-19 pandemic. The 232 full papers and 10 demo papers presented in this volume were carefully reviewed and selected for inclusion in the proceedings. The volumes are organized in topical sections as follows: Part I: Pattern Mining; clustering; privacy and fairness; (social) network analysis and computational social science; dimensionality reduction and autoencoders; domain adaptation; sketching, sampling, and binary projections; graphical models and causality; (spatio-) temporal data and recurrent neural networks; collaborative filtering and matrix completion. Part II: deep learning optimization and theory; active learning; adversarial learning; federated learning; Kernel methods and online learning; partial label learning; reinforcement learning; transfer and multi-task learning; Bayesian optimization and few-shot learning. Part III: Combinatorial optimization; large-scale optimization and differential privacy; boosting and ensemble methods; Bayesian methods; architecture of neural networks; graph neural networks; Gaussian processes; computer vision and image processing; natural language processing; bioinformatics. Part IV: applied data science: recommendation; applied data science: anomaly detection; applied data science: Web mining; applied data science: transportation; applied data science: activity recognition; applied data science: hardware and manufacturing; applied data science: spatiotemporal data. Part V: applied data science: social good; applied data science: healthcare; applied data science: e-commerce and finance; applied data science: computational social science; applied data science: sports; demo track.

#### INNOVATION AND INTERDISCIPLINARY SOLUTIONS FOR UNDERSERVED AREAS

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#### FIRST INTERNATIONAL CONFERENCE, INTERSOL 2017 AND SIXTH COLLOQUE NATIONAL SUR LA RECHERCHE EN INFORMATIQUE ET SES APPLICATIONS, CNRIA 2017, DAKAR, SENEGAL, APRIL 11-12, 2017, PROCEEDINGS

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*Springer* This book constitutes the refereed post-conference proceedings of the First International Conference on Innovation and Interdisciplinary Solutions for Underserved Areas, InterSol 2017, and the

6th Colloque National sur la Recherche en Informatique et ses Applications (CNRIA), held in Dakar, Senegal, in April 2017. The 15 papers presented at InterSol were selected from 76 submissions and are grouped thematically in science, energy and environment, education, innovation, and healthcare. The proceedings also contain 13 papers from the co-located 6th CNRIA (Colloque National sur la Recherche en Informatique et ses Applications) focusing on network architecture and security, software engineering, data management, and signal processing.

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## **INNOVATION AND FUTURE OF ENTERPRISE INFORMATION SYSTEMS**

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### **ERP FUTURE 2012 CONFERENCE, SALZBURG, AUSTRIA, NOVEMBER 2012, REVISED PAPERS**

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Springer Science & Business Media This volume presents the revised and peer reviewed contributions of the "ERP Future 2012" conference held in Salzburg/Austria on November 11th - 12th, 2012. The conference is a platform for research in ERP systems and closely related topics like business processes, business intelligence, and enterprise information systems in general. To master the challenges of ERP comprehensively, the ERP Future 2012 Research conference accepted contributions both with a business focus as well as with an IT focus to consider enterprise resource planning from various viewpoints. This combination of business and IT aspects is a unique characteristic of the conference and of this volume that resulted in valuable contributions with high practical impact.

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### **YOUR BEST TRIATHLON**

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#### **ADVANCED TRAINING FOR SERIOUS TRIATHLETES**

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VeloPress Your Best Triathlon is a master plan that will guide experienced triathletes through every week of their season. For each phase of training, Joe lays out the path to success, outlining clear objectives and the guidelines to meet them. Joe Friel's highly refined training plans for sprint, Olympic, half-Ironman®, and Ironman® race distances will help serious triathletes deliver a breakout performance, even those with countless races under their belt. Joe offers a tool kit of proven workouts that will isolate and develop specific abilities. Within each workout and plan, he offers easy modifications to better manage personal limiters and improve performance. Hundreds of thousands of triathletes have relied on Joe Friel and his groundbreaking best seller, The Triathlete's Training Bible, to develop their own self-coached training programs. Now Joe Friel, the most experienced coach in triathlon, reveals his formula for advanced training and coaches triathletes to their best race ever.

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### **HOW TO BECOME A CLINICAL PSYCHOLOGIST**

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#### **GETTING A FOOT IN THE DOOR**

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Routledge Based on information gathered from assistants, trainee clinical psychologists and clinical psychology course directors across the country, How to Become a Clinical Psychologist includes: information on work experience advice on job applications and interviews details of research projects and training guest chapters dealing with reflections from trainees and professional issues. This guide is the first of its kind and will be an essential companion for anyone interested in pursuing a career in clinical psychology.

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### **SMART APPLICATIONS AND DATA ANALYSIS**

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#### **THIRD INTERNATIONAL CONFERENCE, SADASC 2020, MARRAKESH, MOROCCO, JUNE 25-26, 2020, PROCEEDINGS**

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Springer Nature This volume constitutes refereed proceedings of the Third International Conference on Smart Applications and Data Analysis, SADASC 2020, held in Marrakesh, Morocco. Due to the COVID-19 pandemic the conference has been postponed to June 2020. The 24 full papers and 3 short papers presented were thoroughly reviewed and selected from 44 submissions. The papers are organized according to the following topics: ontologies and meta modeling; cyber physical systems and block-chains; recommender systems; machine learning based applications; combinatorial optimization; simulations and deep learning.

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### **THE PRACTICAL HANDBOOK OF GENETIC ALGORITHMS**

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#### **NEW FRONTIERS, VOLUME II**

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CRC Press The mathematics employed by genetic algorithms (GAs) are among the most exciting discoveries of the last few decades. But what exactly is a genetic algorithm? A genetic algorithm is a problem-solving method that uses genetics as its model of problem solving. It applies the rules of reproduction, gene crossover, and mutation to pseudo-organism

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### **PC MAGAZINE**

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#### **THE INDEPENDENT GUIDE TO IBM-STANDARD PERSONAL COMPUTING**

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#### **BLOCKCHAIN IN THE INDUSTRIAL INTERNET OF THINGS**

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IOP Publishing Limited

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### **THE FREE PRESS**

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#### **THE MUSHROOM AT THE END OF THE WORLD**

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#### **ON THE POSSIBILITY OF LIFE IN CAPITALIST RUINS**

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Princeton University Press Matsutake is the most valuable mushroom in the world—and a weed that grows in human-disturbed forests across the northern hemisphere. Through its ability to nurture trees, matsutake helps forests to grow in daunting places. It is also an edible delicacy in Japan, where it sometimes commands astronomical prices. In all its contradictions, matsutake offers insights into areas far beyond just mushrooms and addresses a crucial question: what manages to live in the ruins we have made? A tale of diversity within our damaged landscapes, *The Mushroom at the End of the World* follows one of the strangest commodity chains of our times to explore the unexpected corners of capitalism. Here, we witness the varied and peculiar worlds of matsutake commerce: the worlds of Japanese gourmets, capitalist traders, Hmong jungle fighters, industrial forests, Yi Chinese goat herders, Finnish nature guides, and more. These companions also lead us into fungal ecologies and forest histories to better understand the promise of cohabitation in a time of massive human destruction. By investigating one of the world's most sought-after fungi, *The Mushroom at the End of the World* presents an original examination into the relation between capitalist destruction and collaborative survival within multispecies landscapes, the prerequisite for continuing life on earth.

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### **GOVERNANCE OF SCIENCE**

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#### **IDEOLOGY AND THE FUTURE OF THE OPEN SOCIETY**

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McGraw-Hill Education (UK) This ground-breaking text offers a fresh perspective on the governance of science from the standpoint of social and political theory. Science has often been seen as the only institution that embodies the elusive democratic ideal of the 'open society'. Yet, science remains an elite activity that commands much more public trust than understanding, even though science has become increasingly entangled with larger political and economic issues.

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### **GAMING RHYTHMS**

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#### **PLAY AND COUNTERPLAY FROM THE SITUATED TO THE GLOBAL**

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Lulu.com "Global gaming networks are heterogenous collectives of localized practices, not unified commercial products. Shifting the analysis of digital games to local specificities that build and perform the global and general, *Gaming Rhythms* employs ethnographic work conducted in Venezuela and Australia to account for the material experiences of actual game players. This book explores the materiality of digital play across diverse locations and argues that the dynamic relation between the everyday life of the player and the experience of digital game play can only be understood by examining play-practices in their specific situations." -- Website.

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### **DR. DOBB'S JOURNAL FOR USERS OF SMALL COMPUTER SYSTEMS**

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#### **ADVANCES IN PRODUCTION MANAGEMENT SYSTEMS. THE PATH TO INTELLIGENT, COLLABORATIVE AND SUSTAINABLE MANUFACTURING**

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#### **IFIP WG 5.7 INTERNATIONAL CONFERENCE, APMS 2017, HAMBURG, GERMANY, SEPTEMBER 3-7, 2017, PROCEEDINGS, PART II**

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Springer The two-volume set IFIP AICT 513 and 514 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2017, held in Hamburg, Germany, in September 2017. The 121 revised full papers presented were carefully reviewed and selected from 163 submissions. They are organized in the following topical sections: smart manufacturing system characterization; product and asset life cycle management in smart factories of industry 4.0; cyber-physical (IIoT) technology deployments in smart manufacturing systems; multi-disciplinary collaboration in the development of smart product-service solutions; sustainable human integration in cyber-physical systems: the operator 4.0; intelligent diagnostics and maintenance solutions; operations planning, scheduling and control; supply chain design; production management in food supply chains; factory planning; industrial and other services; operations management in engineer-to-order manufacturing; gamification of complex systems design development; lean and green manufacturing; and eco-efficiency in manufacturing operations.

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### **MODELING AND SIMULATION OF SYSTEMS USING MATLAB AND SIMULINK**

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CRC Press Not only do modeling and simulation help provide a better understanding of how real-world systems function, they also enable us to predict system behavior before a system is actually built and analyze systems accurately under varying operating conditions. *Modeling and Simulation of Systems Using MATLAB® and Simulink®* provides comprehensive, state-of-the-art coverage of all the important aspects of modeling and simulating both physical and conceptual systems. Various real-life examples show how simulation plays a key role in understanding real-world systems. The author also explains

how to effectively use MATLAB and Simulink software to successfully apply the modeling and simulation techniques presented. After introducing the underlying philosophy of systems, the book offers step-by-step procedures for modeling different types of systems using modeling techniques, such as the graph-theoretic approach, interpretive structural modeling, and system dynamics modeling. It then explores how simulation evolved from pre-computer days into the current science of today. The text also presents modern soft computing techniques, including artificial neural networks, fuzzy systems, and genetic algorithms, for modeling and simulating complex and nonlinear systems. The final chapter addresses discrete systems modeling. Preparing both undergraduate and graduate students for advanced modeling and simulation courses, this text helps them carry out effective simulation studies. In addition, graduate students should be able to comprehend and conduct simulation research after completing this book.

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### **GOING LONG**

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#### **TRAINING FOR TRIATHLON'S ULTIMATE CHALLENGE**

VeloPress Internationally recognized triathlon coach and best-selling author Joe Friel teams up with ultra-endurance guru Gordon Byrn in *Going Long*, the most comprehensive guide to racing long-course and Ironman-distance triathlons. Combining science with personal experience, Friel and Byrn prepare anyone, from the working age-grouper to the podium contender, for success in triathlon's ultimate endurance event. Whether you are preparing for your first long-course triathlon or your fastest, *Going Long* will make every hour of training count. 40 sport-specific drills to improve technique and efficiency Updates to mental training Key training sessions, workout examples, and strength-building exercises A simple approach to balancing training, work, and family obligations A new chapter on active recovery, injury prevention and treatment *Going Long* is the best-selling book on Ironman training. Friel and Byrn guide the novice, intermediate, and elite triathlete, making it the most comprehensive and nuanced plan for Ironman training ever written. *Going Long* is the best resource to break through an Ironman performance plateau to find season after season of long-course race improvements.

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#### **THE HEDGEHOG, THE FOX, AND THE MAGISTER'S POX**

Harvard University Press In his final book, Gould offers a surprising and nuanced study of the complex relationship between our two great ways of knowing: science and the humanities, twin realms of knowledge that have been divided against each other for far too long.

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#### **THE CULTIVATOR & COUNTRY GENTLEMAN**

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#### **THE THEORY OF THE AVANT-GARDE**

Harvard University Press Convinced that all aspects of modern culture have been affected by avant-garde art, Poggioli explores the relationship between the avant-garde and civilization. Historical parallels and modern examples from all the arts are used to show how the avant-garde is both symptom and cause of many major extra-aesthetic trends of our time, and that the contemporary avant-garde is the sole and authentic one.