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**Recommender Systems Handbook Springer** *This second edition of a well-received text, with 20 new chapters, presents a coherent and unified repository of recommender systems' major concepts, theories, methodologies, trends, and challenges. A variety of real-world applications and detailed case studies are included. In addition to wholesale revision of the existing chapters, this edition includes new topics including: decision making and recommender systems, reciprocal recommender systems, recommender systems in social networks, mobile recommender systems, explanations for recommender systems, music recommender systems, cross-domain recommendations, privacy in recommender systems, and semantic-based recommender systems. This multi-disciplinary handbook involves world-wide experts from diverse fields such as artificial intelligence, human-computer interaction, information retrieval, data mining, mathematics, statistics, adaptive user interfaces, decision support systems, psychology, marketing, and consumer behavior. Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas, methods and techniques for developing more efficient, cost-effective and accurate recommender systems.* **Book of Abstracts of the 70th Annual Meeting of the European Federation of Animal Science Ghent, Belgium, 26-30 August 2019 Wageningen Academic Publishers** *This Book of Abstracts is the main publication of the 70th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems, Insects and Precision Livestock Farming.* **AI and Learning Systems Industrial Applications and Future Directions BoD - Books on Demand** *Over the last few years, interest in the industrial applications of AI and learning systems has surged. This book covers the recent developments and provides a broad perspective of the key challenges that characterize the field of Industry 4.0 with a focus on applications of AI. The target audience for this book includes engineers involved in automation system design, operational planning, and decision support. Computer science practitioners and industrial automation platform developers will also benefit from the timely and accurate information provided in this work. The book is organized into two main sections comprising 12 chapters overall: •Digital Platforms and Learning Systems •Industrial Applications of AI* **Earth Observation Open Science and Innovation Springer** *This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.* **Walkable City How Downtown Can Save America, One Step at a Time Farrar, Straus and Giroux** *Jeff Speck has dedicated his career to determining what makes cities thrive. And he has boiled it down to one key factor: walkability. The very idea of a modern metropolis evokes visions of bustling sidewalks, vital mass transit, and a vibrant, pedestrian-friendly urban core. But in the typical American city, the car is still king, and downtown is a place that's easy to drive to but often not worth arriving at. Making walkability happen is relatively easy and cheap; seeing exactly what needs to be done is the trick. In this essential new book, Speck reveals the invisible workings of the city, how simple decisions have cascading effects, and how we can all make the right choices for our communities. Bursting with sharp observations and real-world examples, giving key insight into what urban planners actually do and how places can and do change, Walkable City lays out a practical, necessary, and eminently achievable vision of how to make our normal American cities great again.* **Digital Transformation of the Design, Construction and Management Processes of the Built Environment Springer Nature** *This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical*

discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector. **Advanced Information Systems Engineering 29th International Conference, CAiSE 2017, Essen, Germany, June 12-16, 2017, Proceedings Springer** This book constitutes the refereed proceedings of the 29th International Conference on Advanced Information Systems Engineering, CAiSE 2017, held in Essen, Germany, in June 2017. The 37 papers presented together with 3 keynote papers in this volume were carefully reviewed and selected from 175 submissions. The papers are organized in topical sections on information systems architecture; business process alignment; user knowledge discovery; business process performance; big data exploration; process variability management; information systems transformation and evolution; business process modeling readability; business process adaptation; data mining; process discovery; business process modeling notation. **Animal lives worth living Proceedings of the 53rd Congress of the International Society for Applied Ethology Wageningen Academic Publishers** The main theme of this year's congress is 'Animal lives worth living'. This theme focuses on our responsibility for all animals kept or influenced by humans, to ensure that we can provide a life for them that takes into account all relevant aspects of animal welfare, aided by applied ethology as the key scientific discipline. This not only means avoiding and alleviating suffering but also promoting resilience and positive experiences. By monitoring and interpreting animal behaviour, we gain important insights into each of these aspects of quality of life. **Quadruplex Nucleic Acids Royal Society of Chemistry** Guanine rich DNA has been known for decades to form unusual structures, although their biological relevance was little understood. Recent advances have demonstrated that quadruplex structures can play a role in gene expression and provide opportunities for a new class of anticancer therapeutics. A number of quadruplex-specific proteins have also been discovered. *Quadruplex Nucleic Acids* discusses all aspects of the fundamentals of quadruplex structures, including their structure in solution and the crystalline state, the kinetics of quadruplex folding, and the role of cations in structure and stability. The biology of quadruplexes and G-rich genomic regions and G-quartets in supramolecular chemistry and nanoscience are also considered. Surveying the current state of knowledge, and with contributions from leading experts, this is the first comprehensive review of this rapidly growing area. *Quadruplex Nucleic Acids* is ideal for researchers interested in areas related to chemistry, chemical biology, medicinal chemistry, molecular pharmacology, and structural and molecular biology. **Recommender Systems An Introduction Cambridge University Press** In this age of information overload, people use a variety of strategies to make choices about what to buy, how to spend their leisure time, and even whom to date. Recommender systems automate some of these strategies with the goal of providing affordable, personal, and high-quality recommendations. This book offers an overview of approaches to developing state-of-the-art recommender systems. The authors present current algorithmic approaches for generating personalized buying proposals, such as collaborative and content-based filtering, as well as more interactive and knowledge-based approaches. They also discuss how to measure the effectiveness of recommender systems and illustrate the methods with practical case studies. The final chapters cover emerging topics such as recommender systems in the social web and consumer buying behavior theory. Suitable for computer science researchers and students interested in getting an overview of the field, this book will also be useful for professionals looking for the right technology to build real-world recommender systems. **Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications ICMISC 2020 Springer Nature** This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC 2020), held on 29-30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe. **Monoclonal Antibodies MDPI** This book is a printed edition of the Special Issue "Monoclonal Antibodies" that was published in *Antibodies*. **Mobile User Research A Practical Guide Morgan & Claypool Publishers** This book will give you a practical overview of several methods and approaches for designing mobile technologies and conducting mobile user research, including how to understand behavior and evaluate how such technologies are being (or may be) used out in the world. Each chapter includes case studies from our own work and highlights advantages, limitations, and very practical steps that should be taken to increase the validity of the studies you conduct and the data you collect. This book is intended as a practical guide for conducting mobile research focused on the user and their experience. We hope that the depth and breadth of case studies presented, as well as specific best practices, will help you to design the best technologies possible and choose appropriate methods to gather ethical, reliable, and generalizable data to explore the use of mobile technologies out in the world. **A Year with Swollen Appendices Brian Eno's Diary Faber & Faber** The diary and essays of Brian Eno republished twenty-five years on with a new introduction by the artist in a beautiful hardback edition. 'A cranium tour of one of the most creative minds of our age . . . [Eno] delivers razor-sharp commentary with devilish snarkiness and brutal honesty.' *Wired* At the end of 1994, Brian Eno resolved to keep a diary. His plans to go to the cinema, theatre and galleries fell quickly to the wayside. What he did do - and write - however, was astonishing: ruminations on his collaborative work with David Bowie, U2, James and Jah Wobble, interspersed with correspondence and essays dating back to 1978. These 'appendices' covered topics from the generative and ambient music Eno pioneered to what he believed the role of an artist and their art to be, alongside adroit commentary on quotidian tribulations and happenings around the world. An intimate insight into one of the most influential creative artists of our time, *A Year with Swollen Appendices* is an essential classic. **Surface Ocean Lower Atmosphere Processes John Wiley & Sons** Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 187. The focus of *Surface Ocean: Lower Atmosphere Processes* is biogeochemical interactions between the surface ocean and the lower atmosphere. This volume is an outgrowth of the Surface Ocean-Lower Atmosphere Study (SOLAS) Summer School. The volume is designed to provide graduate students, postdoctoral fellows, and researchers from a wide range of academic backgrounds with a basis for understanding the nature of ocean-atmosphere interactions and the current research issues in this area. The volume highlights include the following: Background material on ocean and atmosphere structure, circulation, and chemistry and on marine ecosystems Integrative chapters on the global carbon cycle and ocean biogeochemistry Issue-oriented chapters on the iron cycle and dimethylsulfide Tool-oriented chapters on biogeochemical modeling and remote sensing A framework of underlying physical/chemical/biological principles, as well as perspectives on current research issues in the field. The readership for this book will include graduate students and/or advanced undergraduate students,

postdoctoral researchers, and researchers in the fields of oceanography and atmospheric science. It will also be useful for experienced researchers in specific other disciplines who wish to broaden their perspectives on the complex biogeochemical coupling between ocean and atmosphere and the importance of this coupling to understanding global change. **International Resources Guide to Hazardous Chemicals Cambridge University Press** A reference for chemists, toxicologists, laboratory technicians, manufacturers, safety professionals, emergency first responders, and lawyers, this international directory of 51 major countries, provides more than 7,500 entries of hazardous chemical manufacturers, organizations, government agencies, hotlines, and useful Web sites for software and databases around the world. **Color and Colorimetry. Multidisciplinary Contributions Advanced Customization in Architectural Design and Construction Springer** This book presents the state of the art in advanced customization within the sector of architectural design and construction, explaining important new technologies that are boosting design, product and process innovation and identifying the challenges to be confronted as we move toward a mass customization construction industry. Advanced machinery and software integration are discussed, as well as an overview of the manufacturing techniques offered through digital methods that are acquiring particular significance within the field of digital architecture. CNC machining, Robotic Fabrication, and Additive Manufacturing processes are all clearly explained, highlighting their ability to produce personalized architectural forms and unique construction components. Cutting-edge case studies in digitally fabricated architectural realizations are described and, looking towards the future, a new model of 100% customized architecture for design and construction is presented. The book is an excellent guide to the profound revolution taking place within the fields of architectural design and construction, characterized by computational tools, advanced fabrication means and custom-made high-performance architecture. **Advanced Technologies for Solar Photovoltaics Energy Systems Springer Nature** This book presents a detailed description, analysis, comparison of the latest research and developments in photovoltaic energy. Discussing everything from semiconductors to system integration, and applying various advanced technologies to stand alone and electric utility interfaced in normal and abnormal operating conditions of PV systems, this book provides a thorough introduction to the topic. This book brings together research from around the world, covering the use of technologies such as embedded systems, the Internet of things and blockchain technologies for PV systems for different applications including controllers, solar trackers and cooling systems. The book is of interest to electronic and mechanical engineers, researchers and students in the field of photovoltaics. **Swarm Intelligence 11th International Conference, ANTS 2018, Rome, Italy, October 29-31, 2018, Proceedings Springer** This book constitutes the proceedings of the 11th International Conference on Swarm Intelligence, ANTS 2018, held in Rome, Italy, in October 2018. The 24 full papers and 12 short papers presented in this volume were carefully reviewed and selected from 69 submissions. They are devoted to the field of swarm intelligence as a whole, without any bias towards specific research directions. **Quantitative Bioimaging An Introduction to Biology, Instrumentation, Experiments, and Data Analysis for Scientists and Engineers CRC Press** Quantitative bioimaging is a broad interdisciplinary field that exploits tools from biology, chemistry, optics, and statistical data analysis for the design and implementation of investigations of biological processes. Instead of adopting the traditional approach of focusing on just one of the component disciplines, this textbook provides a unique introduction to quantitative bioimaging that presents all of the disciplines in an integrated manner. The wide range of topics covered include basic concepts in molecular and cellular biology, relevant aspects of antibody technology, instrumentation and experimental design in fluorescence microscopy, introductory geometrical optics and diffraction theory, and parameter estimation and information theory for the analysis of stochastic data. Key Features: Comprises four parts, the first of which provides an overview of the topics that are developed from fundamental principles to more advanced levels in the other parts. Presents in the second part an in-depth introduction to the relevant background in molecular and cellular biology and in physical chemistry, which should be particularly useful for students without a formal background in these subjects. Provides in the third part a detailed treatment of microscopy techniques and optics, again starting from basic principles. Introduces in the fourth part modern statistical approaches to the determination of parameters of interest from microscopy data, in particular data generated by single molecule microscopy experiments. Uses two topics related to protein trafficking (transferrin trafficking and FcRn-mediated antibody trafficking) throughout the text to motivate and illustrate microscopy techniques. An online appendix providing the background and derivations for various mathematical results presented or used in the text is available at <http://www.routledge.com/9781138598980>. **Natural Stone and Architectural Heritage MDPI** This book is made up of contributions dealing with heritage stones from different countries around the world. The stones are described, as well as their use in vernacular and contemporaneous architecture. Heritage stones are those stones that have special significance in human culture. Examples include some very important stones that have been either neglected because they are no longer extracted, or stones that have great significance in commercial terms but knowledge of their national and/or international heritage has not been well documented. In this collection of articles, we have tried to spread awareness of architectural heritage around the world, the natural stones that have been used in its construction, and the need to preserve historical quarries that once provided the source of such stones. Historical quarries are linked to regional culture and tradition. Because of the specific technical and aesthetical characteristics of heritage stones, which have lasted for centuries, these historical quarries should be preserved to be able to use the stones for the proper restoration of monuments and historical buildings to avoid negative actions that can be observed in many places in the restoration of buildings, which are some times part of World Heritage sites. The final intention of this book is to continuously grow the interest on this fascinating subject of heritage stones. **Fourier Transforms New Analytical Approaches and FTIR Strategies BoD - Books on Demand** New analytical strategies and techniques are necessary to meet requirements of modern technologies and new materials. In this sense, this book provides a thorough review of current analytical approaches, industrial practices, and strategies in Fourier transform application. **Wearable Robotics Systems and Applications Academic Press** Wearable Robotics: Systems and Applications provides a comprehensive overview of the entire field of wearable robotics, including active orthotics (exoskeleton) and active prosthetics for the upper and lower limb and full body. In its two major sections, wearable robotics systems are described from both engineering perspectives and their application in medicine and industry. Systems and applications at various levels of the development cycle are presented, including those that are still under active research and development, systems that are under preliminary or full clinical trials, and those in commercialized products. This book is a great resource for anyone working in this field, including researchers, industry professionals and those who want to use it as a teaching mechanism. Provides a comprehensive overview of the entire field, with both engineering and medical perspectives Helps readers quickly and efficiently design and develop

wearable robotics for healthcare applications **Gene Expression Analysis Methods and Protocols Humana Press** This volume provides experimental and bioinformatics approaches related to different aspects of gene expression analysis. Divided in three sections chapters detail wet-lab protocols, bioinformatics approaches, single-cell gene expression, highly multiplexed amplicon sequencing, multi-omics techniques, and targeted sequencing. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Gene Expression Analysis: Methods and Protocols* aims provide useful information to researchers worldwide. **Accelerando Hachette UK** His most ambitious novel to date, *ACCELERANDO* is a multi-generational saga following a brilliant clan of 21st-century posthumans. The year is some time between 2010 and 2015. The recession has ended, but populations are ageing and the rate of tech change is accelerating dizzyingly. Manfred makes his living from spreading ideas around, putting people in touch with one another and leaving a spray of technologies in his wake. He lives at the cutting edge of intelligence amplification technology, but even Manfred can take on too much. And when his pet robot cat picks up some interesting information from the SETI data, his world - and the world of his descendants - is turned on its head. **Swarm Intelligence 12th International Conference, ANTS 2020, Barcelona, Spain, October 26-28, 2020, Proceedings Springer Nature** This book constitutes the proceedings of the 12th International Conference on Swarm Intelligence, ANTS 2020, held online -due to COVID-19- in Barcelona Spain, in October 2020. The 20 full papers presented , together with 8 short papers and 5 extended abstracts were carefully reviewed and selected from 50 submissions. ANTS 2020 contributions are dealing with any aspect of swarm intelligence. **Alien Interview Lulu.com** The content of this book is the letter, Top Secret interview transcripts and personal notes received from the late Matilda O'Donnell MacElroy, an Army Air Force nurse who stationed at the Roswell Army Air Field 509th Bomb Group. Her letter asserts that this material is based on a series of interviews she conducted with an extraterrestrial being as part of her official duty as a nurse in the U.S. Army Air Force. During July and August she interviewed a saucer pilot who crashed near Roswell, New Mexico on July 8th, 1947. The being identified itself as an officer, pilot and engineer of The Domain Expeditionary Force, a race of beings who are using the asteroid belt in our solar system as a intergalactic base of operations. **Immunogenetics Springer Notes on Randomized Algorithms** Notes on Randomized Algorithms By James Aspnes **Wearable Robotics: Challenges and Trends Proceedings of the 4th International Symposium on Wearable Robotics, WeRob2018, October 16-20, 2018, Pisa, Italy Springer** The book reports on advanced topics in the areas of wearable robotics research and practice. It focuses on new technologies, including neural interfaces, soft wearable robots, sensors and actuators technologies, and discusses important regulatory challenges, as well as clinical and ethical issues. Based on the 4th International Symposium on Wearable Robotics, WeRob2018, held October 16-20, 2018, in Pisa, Italy, the book addresses a large audience of academics and professionals working in government, industry, and medical centers, and end-users alike. It provides them with specialized information and with a source of inspiration for new ideas and collaborations. It discusses exemplary case studies highlighting practical challenges related to the implementation of wearable robots in a number of fields. One of the focus is on clinical applications, which was encouraged by the colocation of WeRob2018 with the International Conference on Neurorehabilitation, INCR2018. Additional topics include space applications and assistive technologies in the industry. The book merges together the engineering, medical, ethical and political perspectives, thus offering a multidisciplinary, timely snapshot of the field of wearable technologies. **Serious Games Joint International Conference, JCSG 2021, Virtual Event, January 12-13, 2022, Proceedings Springer Nature** This book constitutes the refereed proceedings of the 7th Joint International Conference on Serious Games, JCSG 2021, as virtual event, in January 2022. The 17 full papers presented together with 3 short papers were carefully reviewed and selected from 28 submissions. JCSG 2021 is dedicated to serious games and its interdisciplinary characteristics combining game concepts and technologies required in the different application domains. **Language and Automata Theory and Applications 4th International Conference, LATA 2010, Trier, Germany, May 24-28, 2010, Proceedings Springer** This book constitutes the proceedings of the 4th International Conference, LATA 2010, held in May 2010 in Trier, Germany. The 47 full papers presented were carefully selected from 115 submissions and focus on topics such as algebraic language theory, algorithmic learning, bioinformatics, computational biology, pattern recognition, program verification, term rewriting and tree machines. **Analytical Pyrolysis Elsevier** Analytical Pyrolysis presents the Proceedings of the Third International Symposium on Analytical Pyrolysis, held in Amsterdam on September 7-9, 1976. It looks at newly emergent techniques in analytical pyrolysis, including pyrolysis mass spectrometry, gas chromatography, thin-layer chromatography, and pyrolysis-gas liquid chromatography. The book also covers topics ranging from automation and microbiology to forensic science and pharmacology, reproducibility and specificity, biochemistry, laser-induced pyrolysis, pyrolytic reaction mechanisms, and polymers. Comprised of 50 chapters, this book begins with a discussion of automatic analysis of tire rubber blends using computer-linked pyrolysis gas chromatography, thermal procedures in coupling with thin-layer chromatography, the role of pyrolysis-gas liquid chromatography in biomedical studies, and the identification of microorganisms by pyrolysis gas-liquid chromatography. It then examines forensic applications of analytical pyrolysis techniques, structure and degradation behavior of synthetic polymers using pyrolysis in combination with field ion mass spectrometry, determination of polysaccharides in fulvic acids by pyrolysis gas chromatography, and application of Curie-point pyrolysis mass spectrometry in fungal taxonomy. The reader is also introduced to pyrolysis mass spectrometry of model compounds labeled with stable isotopes, the use of pyrolysis/gas chromatography to determine the quality of porous polymers of styrene cross-linked with divinyl benzene, and application of pyrohydrolysis for a rapid and accurate determination of halides in silicate rocks and minerals. This volume will benefit students, researchers, chemists, and scientists working in the field of analytical pyrolysis. **Architecture and Urbanism: A Smart Outlook Proceedings of the 3rd International Conference on Architecture and Urban Planning, Cairo, Egypt Springer Nature** This proceedings addresses the challenges of urbanization that gravely affect the world's ecosystems. To become efficiently sustainable and regenerative, buildings and cities need to adopt smart solutions. This book discusses innovations of the built environment while depicting how such practices can transform future buildings and urban areas into places of higher value and quality. The book aims to examine the interrelationship between people, nature and technology, which is essential in pursuing smart environments that optimize human wellbeing, motivation and vitality, as well as promoting cohesive and inclusive societies: Urban Sociology - Community Involvement - Place-making and Cultural Continuity - Environmental Psychology - Smart living - Just City. The book presents exemplary practical experiences that reflect smart strategies, technologies and innovations, by established and

emerging professionals, provides a forum of real-life discourse. The primary audience for the work will be from the fields of architecture, urban planning and built-environment systems, including multi-disciplinary academics as well as professionals.

**Software Tools and Algorithms for Biological Systems Springer Science & Business Media** "Software Tools and Algorithms for Biological Systems" is composed of a collection of papers received in response to an announcement that was widely distributed to academicians and practitioners in the broad area of computational biology and software tools. Also, selected authors of accepted papers of BIOCOMP'09 proceedings (International Conference on Bioinformatics and Computational Biology: July 13-16, 2009; Las Vegas, Nevada, USA) were invited to submit the extended versions of their papers for evaluation.

**The Theory and Practice of Concurrency Prentice Hall PTR** Since the introduction of Hoares' Communicating Sequential Processes notation, powerful new tools have transformed CSP into a practical way of describing industrial-sized problems. This book gives you the fundamental grasp of CSP concepts you'll need to take advantage of those tools. Part I provides a detailed foundation for working with CSP, using as little mathematics as possible. It introduces the ideas behind operational, denotational and algebraic models of CSP. Parts II and III go into greater detail about theory and practice. Topics include: parallel operators, hiding and renaming, piping and enslavement, buffers and communication, termination and sequencing, and semantic theory. Three detailed practical case studies are also presented. For anyone interested in modeling sequential processes.

**The China Study The Most Comprehensive Study of Nutrition Ever Conducted and the Startling Implications for Diet, Weight Loss and Long-term Health BenBella Books** Referred to as the "Grand Prix of epidemiology" by The New York Times, this study examines more than 350 variables of health and nutrition with surveys from 6,500 adults in more than 2,500 counties across China and Taiwan, and conclusively demonstrates the link between nutrition and heart disease, diabetes, and cancer. While revealing that proper nutrition can have a dramatic effect on reducing and reversing these ailments as well as curbing obesity, this text calls into question the practices of many of the current dietary programs, such as the Atkins diet, that are widely popular in the West. The politics of nutrition and the impact of special interest groups in the creation and dissemination of public information are also discussed.

**Smart Objects and Technologies for Social Good 7th EAI International Conference, GOODTECHS 2021, Virtual Event, September 15-17, 2021, Proceedings Springer** This book constitutes the refereed post-conference proceedings of the 7th EAI International Conference on Smart Objects and Technologies for social Good, GOODTECHS 2021, held in September 2021. Due to COVID-19 pandemic the conference was held virtually. The 24 full papers presented were selected from 53 submissions and issue design, implementation, deployment, operation, and evaluation of smart objects and technologies for social good. Social goods are products and services provided through private enterprises, government, or non-profit institutions and are related to healthcare, safety, sports, environment, democracy, computer science, and human rights. The papers are arranged in tracks on machine learning; IoT; social considerations of technology; technology and ageing; healthcare.

**Understanding COVID-19: The Role of Computational Intelligence Springer** This book provides a comprehensive description of the novel coronavirus infection, spread analysis, and related challenges for the effective combat and treatment. With a detailed discussion on the nature of transmission of COVID-19, few other important aspects such as disease symptoms, clinical application of radiomics, image analysis, antibody treatments, risk analysis, drug discovery, emotion and sentiment analysis, virus infection, and fatality prediction are highlighted. The main focus is laid on different issues and futuristic challenges of computational intelligence techniques in solving and identifying the solutions for COVID-19. The book drops radiance on the reasons for the growing profusion and complexity of data in this sector. Further, the book helps to focus on further research challenges and directions of COVID-19 for the practitioners as well as researchers.