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**FUZZY SYSTEMS AND DATA MINING V**

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**PROCEEDINGS OF FSDM 2019**

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*IOS Press* **The Fuzzy Systems and Data Mining (FSDM) conference is an annual event encompassing four main themes: fuzzy theory, algorithms and systems, which includes topics like stability, foundations and control; fuzzy application, which covers different kinds of processing as well as hardware and architectures for big data and time series and has wide applicability; the interdisciplinary field of fuzzy logic and data mining, encompassing applications in electrical, industrial, chemical and engineering fields as well as management and environmental issues; and data mining, outlining new approaches to big data, massive data, scalable, parallel and distributed algorithms. The annual conference provides a platform for knowledge exchange between international experts, researchers, academics and**

delegates from industry. This book includes the papers accepted and presented at the 5th International Conference on Fuzzy Systems and Data Mining (FSDM 2019), held in Kitakyushu, Japan on 18-21 October 2019. This year, FSDM received 442 submissions. All papers were carefully reviewed by program committee members, taking account of the quality, novelty, soundness, breadth and depth of the research topics falling within the scope of FSDM. The committee finally decided to accept 137 papers, which represents an acceptance rate of about 30%. The papers presented here are arranged in two sections: Fuzzy Sets and Data Mining, and Communications and Networks. Providing an overview of the most recent scientific and technological advances in the fields of fuzzy systems and data mining, the book will be of interest to all those working in these fields.

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## **INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE [1901-14].**

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### **OPTIMIZING THE U.S. GROUND-BASED OPTICAL AND INFRARED ASTRONOMY SYSTEM**

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*National Academies Press* New astronomical facilities, such as the under-construction Large Synoptic Survey Telescope and planned 30-meter-class telescopes, and new instrumentation on existing optical and infrared (OIR) telescopes, hold the promise of groundbreaking research and discovery. How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants? *Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System* provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council (NRC) decadal surveys, *New Worlds, New Horizons for Astronomy and Astrophysics* and *Vision and Voyages for Planetary Sciences in the Decade 2013-2022*, as well as other NRC reports. This report describes a vision for a U.S. OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community, an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities, and near-term critical coordination, planning, and instrumentation needed to usher in the era of LSST and giant telescopes.

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### **BIBLIOGRAPHY OF AFCRL PUBLICATIONS FROM 1 JULY 1966 TO 30 SEPTEMBER 1967**

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This bibliography lists all in-house reports, journal articles, and contractor reports issued from 1 July 1966 to 30 September 1967. Part I lists all in-house reports by the series in which they were issued; Part II lists all in-house reports, journal articles, and contractor reports by the Laboratory responsible for their preparation. In Part I, the

reports are listed numerically by series; in Part II, in-house reports and journal articles are listed alphabetically by author, and contractor reports are listed numerically by the AFCRL report number.

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### **FRONTIERS IN PHYSICS - 2017 & 2018 EDITOR'S CHOICE**

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*Frontiers Media SA* Launched in 2013, *Frontiers in Physics* consists of 18 specialties covering all areas of research in physics. With over 500 published manuscripts, the journal is now indexed in SCIE with the first impact factor coming in 2019. *Frontiers in Physics* aims to become the largest and most cited open access multidisciplinary physics journal. This eBook collects what the Specialty Chief Editors of the journal believed were the most interesting manuscripts published over the past two years. It is a nice collection, which will offer the reader the chance to have a quick overview of the specialties of the journal and offer a glimpse into the state of the art of physics. We must confess that it has been quite challenging to select only one article per specialty section given the many important manuscripts published by the journal in 2017 and 2018. We invite our reader to have a look at the journal homepage and browse what we have published so far. It includes articles on topics very different from each other, written by both early career scientists and well-known researchers, ranging from the indisputable advance of the field to the more bold. We hope you enjoy reading our first edition of the *Frontiers in Physics Editor's Choice* eBook! Professor Alex Hansen (Field Chief Editor) and Dr Claudio Bogazzi (Journal Manager)

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### **PHYSICAL SCIENCES, GRADE 12**

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*Study & Master Physical Sciences Grade 12* has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Physical Sciences.

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### **2014 INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND SOFTWARE ENGINEERING(AISE2014)**

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*DEStech Publications, Inc* 2014 International Conference on Artificial Intelligence and Software Engineering(AISE2014) aims to provide a forum for accessing to the most up-to-date and authoritative knowledge from both Artificial Intelligence and Software Engineering. AISE2014 features unique mixed topics of AI Algorithms, Data Mining, Knowledge-based Systems, Software Process and so on. The goal of this conference is to bring researchers, engineers, and students to the areas of Artificial Intelligence and Software Engineering to share experiences and original research

contributions on those topics. Researchers and practitioners are invited to submit their contributions to AISE2014.

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## **NUCLEAR SCIENCE ABSTRACTS**

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### **INTRODUCTION TO DATA MINING WITH CASE STUDIES**

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*PHI Learning Pvt. Ltd.* The field of data mining provides techniques for automated discovery of valuable information from the accumulated data of computerized operations of enterprises. This book offers a clear and comprehensive introduction to both data mining theory and practice. It is written primarily as a textbook for the students of computer science, management, computer applications, and information technology. The book ensures that the students learn the major data mining techniques even if they do not have a strong mathematical background. The techniques include data pre-processing, association rule mining, supervised classification, cluster analysis, web data mining, search engine query mining, data warehousing and OLAP. To enhance the understanding of the concepts introduced, and to show how the techniques described in the book are used in practice, each chapter is followed by one or two case studies that have been published in scholarly journals. Most case studies deal with real business problems (for example, marketing, e-commerce, CRM). Studying the case studies provides the reader with a greater insight into the data mining techniques. The book also provides many examples, review questions, multiple choice questions, chapter-end exercises and a good list of references and Web resources especially those which are easy to understand and useful for students. A number of class projects have also been included.

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### **FROM THE FERMI SCALE TO COSMOLOGY**

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*Frontiers Media SA*

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### **GRADUATE PROGRAMS IN THE PHYSICAL SCIENCES, MATHEMATICS, AGRICULTURAL SCIENCES, THE ENVIRONMENT & NATURAL RESOURCES 2011 (GRAD 4)**

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*Peterson's* **Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources** contains a wealth of information on colleges and universities that offer graduate work in these exciting fields. The institutions listed include those in the United States and Canada, as well international institutions that are accredited by U.S. accrediting bodies. Up-to-date information, collected through Peterson's Annual Survey of

Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. Readers will find helpful links to in-depth descriptions that offer additional detailed information about a specific program or department, faculty members and their research, and much more. In addition, there are valuable articles on financial assistance, the graduate admissions process, advice for international and minority students, and facts about accreditation, with a current list of accrediting agencies.

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### **ENERGY RESEARCH ABSTRACTS**

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### **NUCLEAR SCIENCE ABSTRACTS**

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### **DESIGN COMPUTING AND COGNITION '14**

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*Springer* This book details the state-of-the-art of research and development in design computing and design cognition. It features more than 35 papers that were presented at the Sixth International Conference on Design Computing and Cognition, DCC'14, held at University College, London, UK. Inside, readers will find the work of expert researchers and practitioners that explores both advances in theory and application as well as demonstrates the depth and breadth of design computing and design cognition. This interdisciplinary coverage, which includes material from international research groups, examines design synthesis, design cognition, design creativity, design processes, design theory, design grammars, design support and design ideation. Overall, the papers provide a bridge between design computing and design cognition. The confluence of these two fields continues to build the foundation for further advances and leads to an increased understanding of design as an activity whose influence continues to spread. As a result, the book will be of particular interest to researchers, developers and users of advanced computation in design and those who need to gain a better understanding of designing that can be obtained through empirical studies.

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### **COMPUTATIONAL INTELLIGENCE METHODS FOR BIOINFORMATICS AND BIostatISTICS**

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### **11TH INTERNATIONAL MEETING, CIBB 2014, CAMBRIDGE, UK, JUNE 26-28, 2014, REVISED SELECTED PAPERS**

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*Springer* This book constitutes the thoroughly refereed post-conference proceedings of the 11th International Meeting

on Computational Intelligence Methods for Bioinformatics and Biostatistics, CIBB 2014, held in Cambridge, UK, in June 2014. The 25 revised full papers presented were carefully reviewed and selected from 44 submissions. The papers focus problems concerning computational techniques in bioinformatics, systems biology, medical informatics and biostatistics.

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## **PROCEEDINGS OF THE NATIONAL SCIENCE COUNCIL, REPUBLIC OF CHINA**

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### **PHYSICAL SCIENCE AND ENGINEERING. PART A**

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### **PETERSON'S GRADUATE PROGRAMS IN THE PHYSICAL SCIENCES 2011**

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#### **SECTIONS 1-6 OF 10**

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*Peterson's* **Peterson's Graduate Programs in the Physical Sciences** contains a wealth of information on colleges and universities that offer graduate work in Astronomy and Astrophysics, Chemistry, Geosciences, Marine Sciences and Oceanography, Meteorology and Atmospheric Sciences, and Physics. The institutions listed include those in the United States, Canada, and abroad that are accredited by U.S. accrediting bodies. Up-to-date information, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. As an added bonus, readers will find a helpful "See Close-Up" link to in-depth program descriptions written by some of these institutions. These Close-Ups offer detailed information about the physical sciences program, faculty members and their research, and links to the program or department's Web site. In addition, there are valuable articles on financial assistance and support at the graduate level and the graduate admissions process, with special advice for international and minority students. Another article discusses important facts about accreditation and provides a current list of accrediting agencies.

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## **RESOURCES IN EDUCATION**

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## **GOYAL'S ISC HOME SCIENCE SPECIMEN QUESTION PAPER WITH MODEL TEST PAPERS FOR CLASS 12 SEMESTER 2 EXAMINATION 2022**

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*Goyal Brothers Prakashan* Goyal's ISC Home Science Specimen Question Paper with Model Test Papers for Class 12 Semester 2 Examination 2022 CISCE's Modified Assessment Plan for Academic Year 2021-22 Reduced and Bifurcated Syllabus for Semester-2 Examination Solved Specimen Question Paper for Semester-2 Examination released by CISCE 15 Model Test Papers (Solved) and 10 Model Test Papers (Unsolved) based on the Specimen Question Paper (released by CISCE) for Semester-2 Examination to be held in March-April, 2022 Goyal Brothers Prakashan

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## **INNOVATION AT THE CROSSROADS BETWEEN SCIENCE AND TECHNOLOGY**

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## **RESEARCH IN EDUCATION**

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## **GRADUATE PROGRAMS IN THE BIOLOGICAL/BIOMEDICAL SCIENCES & HEALTH-RELATED MEDICAL PROFESSIONS 2014 (GRAD 3)**

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*Peterson's* Peterson's Graduate Programs in the Biological/Biomedical Sciences & Health-Related Medical Professions 2014 contains comprehensive profiles of nearly 6,800 graduate programs in disciplines such as, allied health, biological & biomedical sciences, biophysics, cell, molecular, & structural biology, microbiological sciences, neuroscience & neurobiology, nursing, pharmacy & pharmaceutical sciences, physiology, public health, and more. Up-to-date data, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, requirements, expenses, financial support, faculty research, and unit head and application contact information. There are helpful links to in-depth descriptions about a specific graduate program or department, faculty members and their research, and more. There are also valuable articles on financial assistance, the graduate admissions process, advice for international and minority students, and facts about accreditation, with a current list of accrediting agencies.

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## **PETERSON'S GRAD PROGRAMS IN PHYSICAL SCIENCES, MATH, AG SCIENCES, ENVIR & NATURAL RES 20154**

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**(GRAD 4)**


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*Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2015* contains more than 3,000 graduate programs in the relevant disciplines-including agriculture and food sciences, astronomy and astrophysics, chemistry, physics, mathematics, environmental sciences and management, natural resources, marine sciences, and more. Informative data profiles for more than 3,000 graduate programs at nearly 600 institutions are included, complete with facts and figures on accreditation, degree requirements, application deadlines and contact information, financial support, faculty, and student body profiles. Two-page in-depth descriptions, written by featured institutions, offer complete details on specific graduate programs, schools, or departments as well as information on faculty research. Comprehensive directories list programs in this volume, as well as others in the graduate series.

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**CBSE CLASS 10 SOCIAL SCIENCE HANDBOOK - MINDMAPS, SOLVED PAPERS, OBJECTIVE QUESTION BANK & PRACTICE PAPERS**

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*Disha Publications*

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**ECONOMIC REPORT ON AFRICA 2017**

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**URBANIZATION AND INDUSTRIALIZATION FOR AFRICA'S TRANSFORMATION**

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*United Nations* The 2017 Economic Report on Africa focuses on the linkages between industrialization and urbanization. Urbanization is one of Africa mega trends with profound implications for the social, economic, environmental dimensions of growth and transformation. Theory and experience demonstrate that industrialization and urbanization can be mutually reinforcing processes. It is therefore imperative to explore the linkages between urbanization and industrialization given the profound implications for structural transformation in Africa.

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**COMMUNITIES IN ACTION**

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**PATHWAYS TO HEALTH EQUITY**

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*National Academies Press* In the United States, some populations suffer from far greater disparities in health than others.

Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. *Communities in Action: Pathways to Health Equity* seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

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## **MACHINE LEARNING, OPTIMIZATION, AND DATA SCIENCE**

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### **7TH INTERNATIONAL CONFERENCE, LOD 2021, GRASMERE, UK, OCTOBER 4-8, 2021, REVISED SELECTED PAPERS, PART I**

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*Springer Nature*

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## **GROWING URBAN ECONOMIES**

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### **INNOVATION, CREATIVITY, AND GOVERNANCE IN CANADIAN CITY-REGIONS**

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*University of Toronto Press* A rich and nuanced analysis of the interplay of social, political, and economic factors in thirteen Canadian city-regions, large and small, this collection integrates research focusing on innovation, creativity and talent-retention, and governance in order to understand the distinctive experience of each region.

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## **NUTRITION FOR HEALTH AND HEALTH CARE**

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*Cengage Learning* **NUTRITION FOR HEALTH AND HEALTH CARE** approaches the study of nutrition and diet therapy from the perspective of nursing and health science, including examples and data that can help prepare you for your future career. Learn about basic nutrition concepts, such as metabolism, vitamins, and minerals, and clinical topics organized

by organ systems, linking nutrition to different disease states, such as diabetes, renal disease, and liver disorders. Apply what you have learned in Case Studies and Clinical Applications features throughout the text. Use all of the student resources to help you succeed in your course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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## **THE PUBLISHER**

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## **THE JOURNAL OF THE PUBLISHING INDUSTRY**

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## **THE PUBLISHERS' CIRCULAR AND BOOKSELLERS' RECORD**

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## **GOVERNMENT REPORTS ANNOUNCEMENTS & INDEX**

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## **PUBLICATIONS, REPORTS, AND PAPERS FOR 1961- FROM OAK RIDGE NATIONAL LABORATORY**

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## **MULTIDISCIPLINARY SOCIAL NETWORKS RESEARCH**

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## **INTERNATIONAL CONFERENCE, MISNC 2014, KAOHSIUNG, TAIWAN, SEPTEMBER 13-14, 2014. PROCEEDINGS**

*Springer* This book constitutes the refereed proceedings of the 2014 Multidisciplinary International Social Networks Research, MISNC 2014, held in Kaohsiung, Taiwan, in September 2014. The 37 full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on electronic commerce, e-business management, and social networks; social networks issues on sociology, politics and statistics; information technology for social networks analysis and mining; social networks for global eHealth and bio-medics; security, open data, e-learning and other related topics; intelligent data analysis and its applications.

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## **PHYSICS BRIEFS**

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## **SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS**

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## **FLEXIBLE QUERY ANSWERING SYSTEMS**

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### **13TH INTERNATIONAL CONFERENCE, FQAS 2019, AMANTEA, ITALY, JULY 2-5, 2019, PROCEEDINGS**

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*Springer Nature* This book constitutes the refereed proceedings of the 13th International Conference on Flexible Query Answering Systems, FQAS 2019, held in Amantea, Italy, in July 2019. The 27 full papers and 10 short papers presented were carefully reviewed and selected from 43 submissions. The papers present emerging research trends with a special focus on flexible querying and analytics for smart cities and smart societies in the age of big data. They are organized in the following topical sections: flexible database management and querying; ontologies and knowledge bases; social networks and social media; argumentation-based query answering; data mining and knowledge discovery; advanced flexible query answering methodologies and techniques; flexible query answering methods and techniques; flexible intelligent information-oriented and network-oriented approaches; big data veracity and soft computing; flexibility in tools; and systems and miscellanea.

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## **INTERNATIONAL INDEX TO PERIODICALS**

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An author and subject index to publications in fields of anthropology, archaeology and classical studies, economics, folklore, geography, history, language and literature, music, philosophy, political science, religion and theology, sociology and theatre arts.

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### **STATISTICAL PHYSICS: PROCEEDINGS OF THE 2TH TOHWA UNIV INTERNATIONAL MEETING**

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*World Scientific* Statistical physics is one of the fundamental branches of modern science. It provides a useful tool constructing a bridge from the microscopic to the macroscopic world. In the last forty years, most of the extensive applications have been made successfully in a variety of fields, such as physics, chemistry, biology, materials science, and even astronomy, where many new concepts and methods have been developed. The purpose of this meeting is to provide an opportunity for young researchers in experimental, theoretical and computational fields to communicate with one another using the common language of statistical physics, and thus foster many-body interactions among themselves.

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**PHYSICAL REVIEW**

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**STATISTICAL PHYSICS, PLASMAS, FLUIDS, AND RELATED INTERDISCIPLINARY TOPICS. E**

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