Towards Smart Farming Agriculture Beecham Research

This book constitutes the thoroughly refereed proceedings of the 7th Joint International Semantic Technology Conference, JIST 2017, held in Goldcoast, QLD, Australia, in November 2017. The 19 full papers and 4 short papers presented were carefully reviewed and selected from 37 submissions. They present applications of semantic technologies, theoretical results, new algorithms and tools to facilitate the adoption of semantic technologies and are organized in topical sections on ontology and data management; ontology reasoning; linked data and query; information retrieval and knowledge discovery; knowledge graphs; and applications of semantic technologies.
In order to meet food needs, farmers need to integrate the latest technologies enabling them to make more informed decisions. Smart Farming Technologies for Sustainable Agricultural Development provides innovative insights into the latest farming advancements in terms of informatics and communication. The content within this publication represents the work of topics such as sensor systems, wireless communication, and the integration of the Internet of Things in agriculture-related processes. It is a vital reference source for farmers, academicians, researchers, government agencies, technology developers, and graduate-level students seeking current research on smart farming technologies. Perspectives on the Use of New Information and Communication Technology (ICT) in the Modern EconomySpringer Includes history of bills and resolutions.
This book constitutes extended, revised and selected papers from the 9th International Conference on Cloud Computing and Services Science, CLOSER 2019, held in Heraklion, Greece, in May 2019.The 11 papers presented in this volume were carefully reviewed and selected from a total of 102 submissions. CLOSER 2019 focuses on the emerging area of Cloud Computing, inspired by some latest advances that concern the infrastructure, operations, and available servicesthrough the global network. The internet of things (IoT) has emerged as a trending technology that is continually being implemented into various practices within the field of engineering and science due to its versatility and various benefits. Despite the levels of innovation that IoT provides, researchers continue to search for networks that maintain levels of sustainability and require fewer resources. A network that measures up to these expectations is Narrowband IoT (NBIoT), which is a low power wide area version of IoT networks and is suitable for larger projects. Engineers and other industry professionals are in need of in-depth knowledge on this growing technology and its various applications. Principles and Applications of Narrowband Internet of Things (NBIoT) is an essential reference source that provides an in-depth understanding on the recent advancements of NBIoT as well as the crucial roles of emerging low power IoT networks in various regions of the world. Featuring research on topics such as security monitoring, sustainability, and cloud infrastructure, this book is ideally designed for developers, engineers, practitioners, researchers, students, managers, and policymakers seeking coverage on the large-scale deployment and modern applications of NBIoT.

This book includes the best works presented at the scientific and practical conference that took place on February 1, 2018 in Pyatigorsk, Russia on the topic "Perspectives on the use of New Information and Communication Technology (ICT) in the Modern Economy". The conference was organized by the Institute of Scientific Communications (Volgograd, Russia), the Center for Marketing Initiatives (Stavropol, Russia), and Pyatigorsk State University (Pyatigorsk, Russia). The book present the results of research on the complex new information and communication technologies in the modern economy and law as well as research that explore limits of and opportunities for their usage. The target audience of this book includes undergraduates and postgraduates, university lecturers, experts, and researchers studying various issues concerning the use of new information and communication technologies in modern economies. The book includes research on the following current topics in modern economic science: new challenges and opportunities for establishing information economies under the influence of scientific and technical advances, digital economy as a new vector of development of the modern global economy, economic and legal aspects of using new information and communication technologies in developed and developing countries, priorities of using the new information and communication technologies in modern economies, platforms of communication integration in tourism using new information and communication technologies, and economic and legal managerial aspects and peculiarities of scientific research on the information society.

Indonesia dikenal sebagai negara agraris. Negeri yang sangat kaya raya, tanahnya subur, alamnya kaya raya, terbentang mulai dari Sabang sampai Merauke. Lahan pertanian seperti sawah, kebun dan ladang banyak terdapat hampir di seluruh provinsi Indonesia. Tahun 2015, Badan Pusat Statistik mencatat, Indonesia memiliki luas lahan pertanian 8 juta hektar (BPS, 2018). Namun, sebuah informasi mengejutkan dari Badan Pusat Statistik yang menyebutkan luas lahan sawah di Indonesia semakin berkurang dari tahun ke tahun. Catatan BPS menyebutkan tahun 2018, luas sawah tinggal 7,1 juta hektar turun dibanding tahun 2017 yang masih 7,74 juta hektar. Penurunan luas lahan pertanian ini, disebabkan oleh pertumbuhan penduduk yang terus meningkat. Sementara itu, fakta lain melaporkan terhitung sampai tahun 2018 target swasembada pangan yang dicanangkan pemerintah sulit untuk dicapai. Salah satu penyebabnya adalah luas lahan pertanian yang tidak memadai. Smart Farming 4.0 merupakan metode pertanian cerdas berbasis teknologi. Buku ini hadir dalam rangka menjawab atas kekosongan informasi terkait smart farming di Indonesia. Buku ini akan membahas mulai dari pentingya smart farming perlu dikembangkan di Indonesia, pengertian atau konsep dasar dari smart farming, open sources, dan penerapan smart farming. Tidak hanya itu saja, buku juga membahas macam-macam aplikasi smart farming berbasis android yang sudah tersedia di playstore. Harapannya buku ini dapat menjadi salah satu acuan dalam rangka mengembangkan pertanian di Indonesia. Sebagai penulis, merasa bahwa tulisa ini masih jauh dari kata sempurna. Oleh karena itu, kritik dan saran sangat diharapkan demi perbaikan karya ini. Terima kasih yang tak terhingga kepada semua pihak yang telah mendukung atas terbitnya buku ini.

Lions in the Street is a compilation of poems, short stories on education, letters to the editor, unfinished novels, children stories and political and historical essays by the late James Schneider. The writings presented in this book are a

compilation on a wide range of topics with an underlying thread of a love for family and children, a desire to improve the society in which we live and need to present an alternative point of view close to that of the common man which has been all, but ignored in the mainstream media.

This book aims to provide a broad overview of various topics of Internet of Things (IoT), ranging from research, innovation and development priorities to enabling technologies, nanoelectronics, cyber-physical systems, architecture, interoperability and industrial applications. All this is happening in a global context, building towards intelligent, interconnected decision making as an essential driver for new growth and co-competition across a wider set of markets. It is intended to be a standalone book in a series that covers the Internet of Things activities of the IERC – Internet of Things European Research Cluster from research to technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster on the Internet of Things Strategic Research and Innovation Agenda, and presents global views and state of the art results on the challenges facing the research, innovation, development and deployment of IoT in future years. The concept of IoT could disrupt consumer and industrial product markets generating new revenues and serving as a growth driver for semiconductor, networking equipment, and service provider end-markets globally. This will create new application and product end-markets, change the value chain of companies that creates the IoT technology and deploy it in various end sectors, while impacting the business models of semiconductor, software, device, communication and service provider stakeholders. The proliferation of intelligent devices at the edge of the network with the introduction of embedded software and app-driven hardware into manufactured devices, and the ability, through embedded software/hardware developments, to monetize those device functions and features by offering novel solutions, could generate completely new types of revenue streams. Intelligent and IoT devices leverage software, software licensing, entitlement management, and Internet connectivity in ways that address many of the societal challenges that we will face in the next decade.

This text identifies and describes more than 1860 of the leading corporate foundation donors.

The Measuring the Information Society Report (MISR), which has been published annually since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The IDI 2015 captures the level of ICT developments in 167 economies worldwide and compares progress made since the year 2010. The MISR 2015 assesses IDI findings at the regional level and highlights countries that rank at the top of the IDI and those that have improved their position in the overall IDI rankings most dynamically since 2010. The report will feature a review and quantitative assessment of the global ITU goals and targets agreed upon at PP-14 and included in the Connect 2020 Agenda. In addition, the MISR will show the results of the ICT Price Basket (IPB) and present and

analyze fixed and mobile broadband price data for around 180 economies. The report also includes a chapter looking into recent developments of the Internet of Things (IoT).

This book provides an overview of the current Internet of Things (IoT) landscape, ranging from the research, innovation and development priorities to enabling technologies in a global context. A successful deployment of IoT technologies requires integration on all layers, be it cognitive and semantic aspects, middleware components, services, edge devices/machines and infrastructures. It is intended to be a standalone book in a series that covers the Internet of Things activities of the IERC - Internet of Things European Research Cluster from research to technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster and the IoT European Platform Initiative (IoT-EPI) and presents global views and state of the art results on the challenges facing the research, innovation, development and deployment of IoT in the next years. The IoT is bridging the physical world with virtual world and requires sound information processing capabilities for the "digital shadows" of these real things. The research and innovation in nanoelectronics, semiconductor, sensors/actuators, communication, analytics technologies, cyber-physical systems, software, swarm intelligent and deep learning systems are essential for the successful deployment of IoT applications. The emergence of IoT platforms with multiple functionalities enables rapid development and lower costs by offering standardised components that can be shared across multiple solutions in many industry verticals. The IoT applications will gradually move from vertical, single purpose solutions to multi-purpose and collaborative applications interacting across industry verticals, organisations and people, being one of the essential paradigms of the digital economy. Many of those applications still have to be identified and involvement of end-users including the creative sector in this innovation is crucial. The IoT applications and deployments as integrated building blocks of the new digital economy are part of the accompanying IoT policy framework to address issues of horizontal nature and common interest (i.e. privacy, end-to-end security, user acceptance, societal, ethical aspects and legal issues) for providing trusted IoT solutions in a coordinated and consolidated manner across the IoT activities and pilots. In this, context IoT ecosystems offer solutions beyond a platform and solve important technical challenges in the different verticals and across verticals. These IoT technology ecosystems are instrumental for the deployment of large pilots and can easily be connected to or build upon the core IoT solutions for different applications in order to expand the system of use and allow new and even unanticipated IoT end uses. Technical topics discussed in the book include: IntroductionDigitising industry and IoT as key enabler in the new era of Digital EconomyIoT Strategic Research and Innovation Agenda IoT in the digital industrial context: Digital Single MarketIntegration of heterogeneous systems and bridging the virtual, digital and physical worldsFederated IoT platforms and interoperabilityEvolution from intelligent devices to connected systems of systems by adding new layers of cognitive behaviour, artificial intelligence and user interfaces. Innovation through IoT ecosystemsTrust-based IoT end-to-end security, privacy framework User acceptance, societal, ethical aspects and legal issuesInternet of Things Applications

The Late Novels of Eudora Welty offers readings of two of the works considered to be Welty's most exciting both in innovative

technique and postmodern existential statement. Fourteen new essays by internationally distinguished critics of Southern literature provide focused appraisals of Welty's last two novels: Losing Battles (1970), a provocative experiment in narration, and Pulitzer Prize-winning The Optimist's Daughter (1972), a profound comment on our time.

This book addresses the threats that hamper the achievement of sustainable soil management: soil erosion by water and wind, soil organic carbon loss, nutrient imbalance, salinization, contamination, acidification, loss of soil biodiversity, surface sealing, compaction and water logging. The specific focus is on preventive and ameliorative strategies for sustainable soil management.

This book covers the latest in recycling and reuse research focused toward greater sustainability and includes chapters authored by the world's leading thinkers and practitioners in the field. Topics covered include recycling and reuse, solid waste management, renewable energy, environmental studies, and wastewater management. This text contains environmental issues with an experimental focus, making this a useful resource to students, researchers, and professionals working in solid waste management, energy and water sustainability issues within the geoscience, engineering, and chemistry fields.

This book presents current progress on challenges related to Big Data management by focusing on the particular challenges associated with context-aware data-intensive applications and services. The book is a state-of-the-art reference discussing progress made, as well as prompting future directions on the theories, practices, standards and strategies that are related to the emerging computational technologies and their association with supporting the Internet of Things advanced functioning for organizational settings including both business and e-science. Apart from inter-operable and inter-cooperative aspects, the book deals with a notable opportunity namely, the current trend in which a collectively shared and generated content is emerged from Internet end-users. Specifically, the book presents advances on managing and exploiting the vast size of data generated from within the smart environment (i.e. smart cities) towards an integrated, collective intelligence approach. The book also presents methods and practices to improve large storage infrastructures in response to increasing demands of the data intensive applications. The book contains 19 self-contained chapters that were very carefully selected based on peer review by at least two expert and independent reviewers and is organized into the three sections reflecting the general themes of interest to the IoT and Big Data communities: Section I: Foundations and Principles Section II: Advanced Models and Architectures Section III: Advanced Applications and Future Trends The book is intended for researchers interested in joining interdisciplinary and transdisciplinary works in the areas of Smart Environments, Internet of Things and various computational technologies for the purpose of an integrated collective computational intelligence approach into the Big Data era.

From All the President's Men to Zodiac, some of the most compelling films of the last century have featured depictions of journalists in action. While print journalism struggles to survive, the emergence of news from social media outlets

continues to expand, allowing the world to be kept informed on a second-bysecond basis. Despite attacks on journalists—both verbal and physical—a free press remains a crucial bastion for civilized society. And just as the daily news reflects the current state of affairs, films about journalism represent how reporting has evolved over the last few centuries. In Encyclopedia of Journalists on Film, Richard R. Ness provides a comprehensive examination of the fourth estate in cinema—from newspaper reporters to today's cyber journalists. In this volume, Ness provides in-depth descriptions and analyses of more than five hundred significant films, from the silent era to the present, including international productions and made-for-television movies. The entries focus on the image of the press on screen and ethical issues or concerns raised about the practices of the profession. Collectively, the entries demonstrate that there is a recognizable genre of journalism films with definable plot patterns and iconography. Each entry features: Major credits including directors, writers, and producers List of characters and the actors who portray them Running time Plot synopsis Analysis of the role of journalism Many of the entries feature critical reviews as well as cogent selections of dialogue. Films discussed here include comedies such as His Girl Friday (1940), nail-biting thrillers like Foreign Correspondent (1940) and The Parallax View (1974), social commentaries like Network (1976) and The China Syndrome (1979), dramas like Citizen Kane (1941) and The Post (2017), and of course, Academy Award winners All the President's Men (1976) and Spotlight (2015). A definitive study of a film genre, Encyclopedia of Journalists on Film will be of interest to film scholars, researchers, journalists, and students of popular culture.

This 16th International Conference on Information Technology - New Generations (ITNG), continues an annual event focusing on state of the art technologies pertaining to digital information and communications. The applications of advanced information technology to such domains as astronomy, biology, education, geosciences, security and health care are among topics of relevance to ITNG. Visionary ideas, theoretical and experimental results, as well as prototypes, designs, and tools that help the information readily flow to the user are of special interest. Machine Learning, Robotics, High Performance Computing, and Innovative Methods of Computing are examples of related topics. The conference features keynote speakers, the best student award, poster award, service award, a technical open panel, and workshops/exhibits from industry, government and academia.

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