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Grid and Pervasive Computing Workshops John Wiley & Sons SMART CHARGING SOLUTIONS The most comprehensive and up-to-date study of smart charging solutions for hybrid and electric vehicles for engineers, scientists, students, and other professionals. As our dependence on fossil fuels continues to wane all over the world, demand for dependable and economically feasible energy sources continues to grow. As environmental regulations become more stringent, energy production is relying more and more heavily on locally available renewable resources. Furthermore, fuel consumption and emissions are facilitating the transition to sustainable transportation. The market for electric vehicles (EVs) has been increasing steadily over the past few years throughout the world. With the increasing popularity of EVs, a competitive market between charging stations (CSS) to attract more EVs is expected. This outstanding new volume is a resource for engineers, researchers, and practitioners interested in getting acquainted with smart charging for electric vehicles technologies. It includes many chapters dealing with the state-of-the-art studies on EV smart charging along with charging infrastructure. Whether for the veteran engineer or student, this is a must-have volume for any library. Smart Charging Solutions for Hybrid and Electric Vehicles: Presents the state of the art of smart charging for hybrid and electric vehicles, from a technological point of view Focuses on optimization and prospective solutions for practical problems Covers the most important recent developmental technologies related to renewable energy, to keep the engineer up to date and well informed Includes economic considerations, such as business models and price structures Covers standards and regulatory frameworks for smart charging solutions

Smart Grid as a Solution for Renewable and Efficient Energy Springer This book includes the proceedings of the International Conference on Advanced Information Technology, Services and Systems (AIT2S-17) held on April 14–15, 2017 in Tangier, Morocco. Presenting the latest research in the field, it stimulates debate, discusses new challenges and provides insights into the field in order to promote closer interaction and interdisciplinary collaboration between researchers and practitioners. Intended for researchers and practitioners in advanced information technology/management and networking, the book is also of interest to those in emergent fields such as data science and analytics, big data, Internet of Things, smart networked systems, artificial intelligence and expert systems, pattern recognition, and cloud computing.

Transportation and Power Grid in Smart Cities Penguin
The ability of future industry to create interactive, flexible and always-on connections between design, manufacturing and supply is an ongoing challenge, affecting competitiveness, efficiency and resourcing. The goal of enterprise interoperability (EI) research is therefore to address the effectiveness of solutions that will successfully prepare organizations for the advent and uptake of new technologies. This volume outlines results and practical concepts from recent and ongoing European research studies in EI, and examines the results of research and discussions cultivated at the I-ESA 2018 conference, "Smart services and business impact of enterprise interoperability". The conference, designed to encourage collaboration between academic inquiry and real-world industry applications, addressed a number of advanced multidisciplinary topics including Industry 4.0, Big Data, the Internet of Things, Cloud computing, ontology, artificial intelligence, virtual reality and enterprise modelling for future "smart" manufacturing. Readers will find this book to be a source of invaluable knowledge for enterprise architects in a range of industries and organizations.

Enterprise Interoperability John Wiley & Sons
Transform your woodshop to suit your needs! Whether you want more workspace or just a more efficient setup, here are all the designs you need to build the workshop of your dreams. Danny Proulx provides detailed plans and easy-to-follow instructions for building self-contained units for every tool and related accessory. These 12 problem-solving projects are guaranteed to give your woodshop new life by maximizing space and increasing shop efficiency. Each design ensures that the wrenches, blades, jigs and attachments for all of your tools are within arm's reach. It's the perfect setup for working more effectively with your table saw, drill press, miter saw, sharpening stones and more. Includes these 12 problem-solving projects: Base- and wall-mounted cabinets Practical workbench Power miter saw station Multifunction power tool cabinet Power tool storage station Mobile table saw center Router table cabinet Drill press center Tool sharpening and maintenance station Mobile workbench and tool cabinet Saw outfeed table and storage cabinet Shop made 12-inch disc sander

Smart Services Summit Springer
This book constitutes the proceedings of the Second International Conference on Cloud,

Networking for IoT Systems, CN4IoT 2017, and the Second EAI International Conference on ICT Infrastructures and Services for Smart Cities, IISSC 2017, held in Brindisi, Italy, in April 2017. The 26 full papers of both conferences were selected from 39 submissions. CN4IoT presents research activities on the uniform management and operation related to software defined infrastructures, in particular by analyzing limits or advantages in solutions for Cloud Networking and IoT. IISSC papers focus on ICT infrastructures (technologies, models, frameworks) and services in cities and smart communities.

Environmental Software Systems. Fostering Information Sharing Springer Nature
This book gathers the most recent developments in fuzzy & intelligence systems and real complex systems presented at INFUS 2020, held in Istanbul on July 21–23, 2020. The INFUS conferences are a well-established international research forum to advance the foundations and applications of intelligent and fuzzy systems, computational intelligence, and soft computing, highlighting studies on fuzzy & intelligence systems and real complex systems at universities and international research institutions. Covering a range of topics, including the theory and applications of fuzzy set extensions such as intuitionistic fuzzy sets, hesitant fuzzy sets, spherical fuzzy sets, and fuzzy decision-making; machine learning; risk assessment; heuristics; and clustering, the book is a valuable resource for academics, M.Sc. and Ph.D. students, as well as managers and engineers in industry and the service sectors.

Cloud Infrastructures, Services, and IoT Systems for Smart Cities John Wiley & Sons
This book discusses the application of different machine learning techniques to the sub-concepts of smart cities such as smart energy, transportation, waste management, health, infrastructure, etc. The focus of this book is to come up with innovative solutions in the above-mentioned issues with the purpose of alleviating the pressing needs of human society. This book includes content with practical examples which are easy to understand for readers. It also covers a multi-disciplinary field and, consequently, it benefits a wide readership including academics, researchers, and practitioners.

Advanced Information Technology, Services and Systems Taunton
This book constitutes the refereed proceedings of the 10th IFIP WG 5.11 International Symposium on Environmental Software Systems, ISESS 2013, held in Neusiedl am See, Austria, in June 2013. The 65 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: environmental application in the scope of the future Internet; smart and mobile devices used for environmental applications; information tools for global environmental assessment; environmental applications in risk and crises management; SEIS as a part of the 7th environment action programme of EU; human interaction and human factors driving future EIS/EDSS developments; environmental management/-accounting and -statistics; and information systems and applications.

Woodworking for the Home Springer Nature
Electrical energy usage is increasing every year due to population growth and new forms of consumption. As such, it is increasingly imperative to research methods of energy control and safe use. Security Solutions and Applied Cryptography in Smart Grid Communications is a pivotal reference source for the latest research on the development of smart grid technology and best practices of utilization. Featuring extensive coverage across a range of relevant perspectives and topics, such as threat detection, authentication, and intrusion detection, this book is ideally designed for academicians, researchers, engineers and students seeking current research on ways in which to implement smart grid platforms all over the globe.

Workshop Proceedings of the 11th International Conference on Intelligent Environments John Wiley & Sons
This book will offer ideas on how robots can be used as teachers' assistants to scaffold learning outcomes, where the robot is a learning agent in self-directed learning who can contribute to the development of key competences for today's world through targeted learning - such as engineering thinking, math, physics, computational thinking, etc. starting from pre-school and continuing to a higher education level. Robotization is speeding up at the moment in a variety of dimensions, both through the automation of work, by performing intellectual duties, and by providing support for people in everyday situations. There is increasing political attention, especially in Europe, on educational systems not being able to keep up with such emerging technologies, and efforts to rectify this. This edited volume responds to this attention, and seeks to explore which pedagogical and educational concepts should be included in the learning process so that the use of robots is meaningful from the point of view of knowledge construction, and so that it is safe from the technological and cybersecurity perspective.

Smart Homes and Health Telematics Smart Workshop Solutions
Smart Questions offers an entirely new framework for creating solutions. Drawn from the authors' many years of research and field experience, the Smart Questions Approach reveals how the leading creators of solutions in almost every profession and walk of life—including business, government, education, and even in families—think and approach their assignments. The author's holistic thinking approach shows how to use three "foundation" questions—focusing on uniqueness, purposeful information, and systems—which must be explored for every problem. These three questions, an essential starting point for exploring problems, in turn lead to other key questions that will ultimately create effective solutions.

Towards the Future Internet IGI Global
Semantic technologies are experimenting an increasing popularity in the context of different domains and applications. The understanding of any class of system can be significantly changed under the assumption any system is part of a global ecosystem known as Semantic Web.The Semantic Web would be an evolving extension of current Web model (normally referred as Syntactic Web) that introduces a semantic layer in which semantics, or meaning of information, are formally defined.So, semantics should integrate web-centric standard information infrastructures improving several aspects of interaction among heterogeneous systems. This is because common interoperability models are progressively becoming obsolete if compared with the intrinsic complexity and always more distributed focus that feature modern systems. For example, the basic interoperability model, that assumes the interchange of messages among systems without any interpretation, is simple but effective only in the context of close environments. Also more advanced models, such as the functional interoperability

model that integrates basic interoperability model with the ability of intepretating data context under the assumption of a shared schema for data fields accessing, appears not able to provide a full sustainable technologic support for open systems.The Semantic Interoperability model would improve common interoperability models introducing the interpretation of means of data. Semantic interoperability is a concretely applicable interaction model under the assumption of adopting rich data models (commonly called Ontology) composed of concepts within a domain and the relationships among those concepts.In practice, semantic technologies are partially inverting the common view at actor intelligence: intelligence is not implemented (only) by actors but it is implicitly resident in the knowledge model. In other words, schemas contain information and the "code" to interpretate it.

Smart Learning with Educational Robotics Springer Nature
The term Intelligent Environments (IEs) refers to physical spaces in which information and communication technologies are interwoven with sensing technologies, innovative user interfaces, robotics and artificial intelligence to create interactive spaces which increase the awareness and enhance the experience of those occupying them. The growing IE community is rooted in academia, but increasingly involves practitioners. It explores the core ideas of IEs as well as the factors necessary to make them a reality, such as energy efficiency, the computational constraints of edge devices and privacy issues. This book presents papers from Workshops held during the 18th International Conference on Intelligent Environments, IE2022, held as a hybrid conference in Biarritz, France, from 20 to 23 June 2022. The conference is now recognized as a major annual venue in the field of IE. It offers a truly international forum for the exchange of information and ideas, and welcomes contributions from all technically active regions of the planet. Included here are 35 papers from the 1st International Workshop on Sentiment Analysis and Emotion Recognition for Social Robots (SENTIRobots'22); 1st International Workshop on Edge AI for Smart Agriculture (EAISA'22); 2nd International Workshop on Artificial Intelligence and Machine Learning for Emerging Topics (ALLEGET'22); 11th International Workshop on the Reliability of Intelligent Environments (WoRIE'22); 2nd International Workshop on Self-Learning in Intelligent Environments (SeLIE'22); 5th Workshop on Citizen Centric Smart Cities Solutions (CCSCS'22); 11th International Workshop on Intelligent Environments Supporting Healthcare and Well-being (WISHWell'22) Exploring some of the latest research and developments in the field, the book will be of interest to all those working with intelligent environments and its associated technologies.

Energy and Water Development Appropriations for 2011, Part 7, 2010, 111-2 Hearings Popular Woodworking Books
Enterprises and organizations of any kind embedded in today's economic environment are deeply dependent on their ability to take part in collaborations. Consequently, it is strongly required for them to get actively involved for their own benefit in emerging, potentially opportunistic collaborative enterprise networks. The concept of "interoperability" has been defined by INTEROP-VLab as "The ability of an enterprise system or application to interact with others at a low cost in a flexible approach". Consequently, interoperability of organizations appears as a major issue to succeed in building on the fly emerging enterprise networks. The International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2014) was held under the motto "interoperability for agility, resilience and plasticity of collaborations" on March 26-28, 2014 and organized by the Ecole des Mines d'Albi-Carmaux, France on behalf of the European Laboratory for Enterprise Interoperability (INTEROP-VLab). On March 24-25, co-located with the conference eight workshops and one doctoral symposium were held in four tracks complementing the program of the I-ESA'14 conference. The workshops and the doctoral symposium address areas of greatest current activity focusing on active discussions among the leading researchers in the area of Enterprise Interoperability. This part of the conference helps the community to operate effectively, building co-operative and supportive international links as well as providing new knowledge of on-going research to practitioners. The workshops and doctoral symposium aimed at exploiting new issues, challenges and solutions for Enterprise Interoperability (EI) and associated domains of innovation such as Smart Industry, Internet-Of-Things, Factories of the Future, EI Applications and Standardisation. These proceedings include the short papers from the I-ESA'14 workshops and the doctoral symposium. The book is split up into 9 sections, one for each workshop and one for the doctoral symposium. All sections were organized following four tracks: (1) EI and Future Internet / Factory of the Future; (2) EI Application Domains and IT; (3) EI Standards; (4) EI Doctoral Symposium. For each section, a workshop report is provided summarizing the content and the issues discussed during the sessions. The goal of the first track was to offer a discussion opportunity on interoperability issues regarding the use of Internet of Things on manufacturing environment (Workshops 1 and 3) on one hand, and regarding the potential of innovation derived from the use of digital methods, architectures and services such as Smart Networks (Workshops 2 and 4) on the other hand. The second track focused on particular application domains that are looking for innovative solutions to support their strong collaborative needs. Thus, the track developed one workshop on the use of EI solution for Future City-Logistics (Workshop 5) and one on the use of EI solutions for Crisis / Disaster Management (Workshop 6). The third track studied the recent developments in EI standardization. Two workshops were dedicated to this issue. The first one has proposed to focus on the management of standardization (Workshop 8) and the second one has chosen to work on the new knowledge on standardization developments in the manufacturing service domain (Workshop 9). The last track, the doctoral symposium presented research results from selected dissertations. The session discussed EI knowledge issues, notably in terms of gathering through social networks or Internet of Things and of exploitation through innovative decision support systems.

Understanding Smart Cities: A Tool for Smart Government or an Industrial Trick? Popular Woodworking Books
Chairmaking is widely considered to be the pinnacle of the woodworker's art. Mysterious. Intimidating" Impossible. The reality is that chairmaking is fulfilling, rewarding, and fun.

Service-Oriented Computing – ICSOC 2015 Workshops Springer
The book constitutes the thoroughly refereed proceedings of the 11th International Workshop on Knowledge Management and Acquisition for Smart Systems and Services, held in Daegue, Korea in August 2010 in conjunction with the Pacific Rim International Conference on Artificial Intelligence, PRICAI 2010. The 26 revised full papers were selected from 94 submissions and are organized in topical sections on Machine Learning, Data Mining, Knowledge Engineering & Ontology, Incremental Knowledge Acquisition, KA Applications in Internet and Mobile Computing and KA Applications in Multimedia and Games.

Proceedings of the Workshop on Cloud Continuum Services for Smart IoT Systems IGI Global

This book investigates the role of smart cities in the broader context of urban innovation and e-government, identifies what a smart city is in practice and highlights their importance to the welfare of society. The book offers specific, measurable, and action-oriented public sector planning and management principles and ideas for smart governance in the era of global urbanization and innovation to help with the challenges in maintaining the democratic system of checks and balances as well as the division of powers in a highly interconnected world. The book will be of interest researchers, practitioners, students, and public sector IT professionals that work within innovation management, public administration, urban technologies and urban innovation, and public local administration studies.

Springer

Intelligent Environments (IE) play an increasingly important role in many areas of our lives, including education, healthcare and the domestic environment. The term refers to physical spaces incorporating pervasive computing technology used to achieve specific goals for the user, the environment or both. This book presents the proceedings of the workshops of the 9th International Conference on Intelligent Environments (IE '13), held in Athens, Greece, in July 2013. The workshops which were presented in the context of this conference range from regular lectures to practical sessions. They provide a forum for scientists, researchers and engineers from both industry and academia to engage in discussions on newly emerging or rapidly evolving topics in the field. Topics covered in the workshops include artificial intelligence techniques for ambient intelligence; applications of affective computing in intelligent environments; smart offices and other workplaces; intelligent environment technology in education for creative learning; museums as intelligent environments; the application of intelligent environment technologies in the urban context for creating more sociable, intelligent cities and for constructing urban intelligence. IE can enrich user experience, better manage the environment's resources, and increase user awareness of that environment. This book will be of interest to all those whose work involves the application of intelligent environments.

Machine Learning Techniques for Smart City Applications: Trends and Solutions Taunton

This SpringerBrief discusses the rise of the smart grid from the perspective of computing and communications. It explains how current and next-generation network technology and methodologies help recognize the potential that the smart grid initiative promises. Chapters provide context on the smart grid before exploring specific challenges related to communication control and energy management. Topics include control in heterogeneous power supply, solutions for backhaul and wide area networks, home energy management systems, and technologies for smart energy management systems. Designed for researchers and professionals working on the smart grid, Communication Challenges and Solutions in the Smart Grid offers context and applications for the common issues of this developing technology. Advanced-level students interested in networking and communications engineering will also find the brief valuable.

Knowledge Management and Acquisition for Smart Systems and Services IGI Global

Smart Home Technologies and Services for Geriatric Rehabilitation provides a toolbox for healthcare stakeholders involved in decision-making for the design, development and implementation of smart home solutions. The book provides an in-depth look at the field of smart homes with readers from both research and practice in mind. It addresses the roles and contributions of smart home technologies and services in supporting geriatric rehabilitation and discusses the challenges of current practice and future innovation, especially with wireless technology and 5G advancements. This reference offers advice on how to implement solutions in the home, and how to framework the modalities of modifying and measuring responses to rehabilitation interventions in geriatric populations. Acceptability, usability and adherence are all considered. Content coverage includes how to navigate policies, regulations, standards and how to build business models. The book's editorial team is multidisciplinary, multisectoral, and from very different regions of the world, thus ensuring a comprehensive scope and global approach. Offers an overview on the state-of-the-art, advanced technologies used in home healthcare to improve patient safety and care Explores the challenges of current practices and discusses new perspectives for future innovations in geriatric rehabilitation services Combines the technical aspects of computer science and technology design with the practical aspects of care giving.