

Embedded Systems

Christoph Grimm
Peter Neumann
Stefan Mähknecht *Editors*

Embedded Systems for Smart Appliances and Energy Management



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Embedded Systems for Smart Appliances and Energy Management Christoph Grimm, Peter Neumann, Stefan Mahlknecht, 2012-05-31 This comprehensive introduction describes embedded systems for smart appliances and energy management. The text combines a multidisciplinary blend of topics from embedded systems, information technology, and power engineering.

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Complex, Intelligent, and Software Intensive Systems Leonard Barolli, Nadeem Javaid, Makoto Ikeda, Makoto Takizawa, 2018-06-18 This book provides a platform of scientific interaction between the three challenging and closely linked areas of ICT enabled application research and development: software intensive systems, complex systems, and intelligent systems. Software intensive systems strongly interact with other systems, sensors, actuators, devices, other software systems, and users. More and more domains are using software intensive systems, e.g., automotive and telecommunication systems, embedded systems in general industrial automation systems, and business applications. Moreover, web services offer a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than their components. Complex systems are characterized by the changing environments in which they interact. They evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents, which are increasingly characterized by their use of ontologies and their logical foundations, offer impulses for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences are vital for the future development and innovation of software intensive and complex systems.

Engineering Secure Future Internet Services and Systems Maritta Heisel, Wouter Joosen, Javier López, Fabio Martinelli, 2014-05-22 This State of the Art Survey contains a selection of papers representing state of the art results in the engineering of secure software based Future Internet services and systems produced by the NESSoS

project researchers The engineering approach of the Network of Excellence NESSoS funded by the European Commission is based on the principle of addressing security concerns from the very beginning in all software development phases thus contributing to reduce the amount of software vulnerabilities and enabling the systematic treatment of security needs through the engineering process The 15 papers included in this volume deal with the main NESSoS research areas security requirements for Future Internet services creating secure service architectures and secure service design supporting programming environments for secure and composable services enabling security assurance and integrating former results in a risk aware and cost aware software life cycle

Encyclopedia of Sustainable Technologies Martin

Abraham,2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

Recent Trends and Advances in Artificial Intelligence and Internet of Things Valentina E. Balas,Raghvendra

Kumar,Rajshree Srivastava,2019-11-19 This book covers all the emerging trends in artificial intelligence AI and the Internet of Things IoT The Internet of Things is a term that has been introduced in recent years to define devices that are able to connect and transfer data to other devices via the Internet While IoT and sensors have the ability to harness large volumes of data AI can learn patterns in the data and quickly extract insights in order to automate tasks for a variety of business benefits Machine learning an AI technology brings the ability to automatically identify patterns and detect anomalies in the data that smart sensors and devices generate and it can have significant advantages over traditional business intelligence tools for analyzing IoT data including being able to make operational predictions up to 20 times earlier and with greater accuracy than threshold based monitoring systems Further other AI technologies such as speech recognition and computer vision can help extract insights from data that used to require human review The powerful combination of AI and IoT technology is helping to avoid unplanned downtime increase operating efficiency enable new products and services and enhance risk

management **Application of Machine Learning and Deep Learning Methods to Power System Problems** Morteza Nazari-Heris, Somayeh Asadi, Behnam Mohammadi-Ivatloo, Moloud Abdar, Houtan Jebelli, Milad Sadat-Mohammadi, 2021-10-20 This book evaluates the role of innovative machine learning and deep learning methods in dealing with power system issues concentrating on recent developments and advances that improve planning operation and control of power systems Cutting edge case studies from around the world consider prediction classification clustering and fault event detection in power systems providing effective and promising solutions for many novel challenges faced by power system operators Written by leading experts the book will be an ideal resource for researchers and engineers working in the electrical power engineering and power system planning communities as well as students in advanced graduate level courses Energy Conservation for IoT Devices Mamta Mittal, Sudeep Tanwar, Basant Agarwal, Lalit Mohan Goyal, 2019-05-21 This book addresses the Internet of Things IoT an essential topic in the technology industry policy and engineering circles and one that has become headline news in both the specialty press and the popular media The book focuses on energy efficiency concerns in IoT and the requirements related to Industry 4.0 It is the first ever how to guide on frequently overlooked practical methodological and moral questions in any nation's journey to reducing energy consumption in IoT devices The book discusses several examples of energy efficient IoT ranging from simple devices like indoor temperature sensors to more complex sensors e.g. electrical power measuring devices actuators e.g. HVAC room controllers motors and devices e.g. industrial circuit breakers PLC for home building or industrial automation It provides a detailed approach to conserving energy in IoT devices and comparative case studies on performance evaluation metrics state of the art approaches and IoT legislation *Handbook of Research on Emerging Technologies for Electrical Power Planning, Analysis, and Optimization* Shandilya, Smita, Shandilya, Shishir, Thakur, Tripta, Nagar, Atulya K., 2016-02-26 As the demand for efficient energy sources continues to grow around the globe electrical systems are becoming more essential in an effort to meet these increased needs As these systems are being utilized more frequently it becomes imperative to find ways of optimizing their overall function The Handbook of Research on Emerging Technologies for Electrical Power Planning Analysis and Optimization features emergent methods and research in the systemic and strategic planning of energy usage Highlighting theoretical perspectives and empirical research this handbook is a comprehensive reference source for researchers practitioners students and professionals interested in the current advancements and efficient use in power systems

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