



*Proceedings of the 3rd International Conference on Human Systems Engineering and Design (IHSED2020): Future Trends and Applications, September 22-24, 2020, Juraj Dobrila University of Pula, Croatia*

*Digital Enterprise Technology*

A practical guide to industrial automation concepts, terminology, and applications Industrial Automation: Hands-On is a single source of essential information for those involved in the design and use of automated machinery. The book emphasizes control systems and offers full coverage of other relevant topics, including machine building, mechanical engineering and devices, manufacturing business systems, and job functions in an industrial environment. Detailed charts and tables serve as handy design aids. This is an invaluable reference for novices and seasoned automation professionals alike. COVERAGE INCLUDES: \* Automation and manufacturing \* Key concepts used in automation, controls, machinery design, and documentation \* Components and hardware \* Machine systems \* Process systems and automated machinery \* Software \* Occupations and trades \* Industrial and factory business systems, including Lean manufacturing \* Machine and system design \* Applications

This book constitutes the refereed proceedings of five workshops co-located with SAFECOMP 2018, the 37th International Conference on Computer Safety, Reliability, and Security, held in Västerås, Sweden, in September 2018. The 28 revised full papers and 21 short papers presented together with 5 introductory papers to each workshop were carefully reviewed and selected from 73 submissions. This year's workshops are: ASSURE 2018 – Assurance Cases for Software-Intensive Systems; DECSoS 2018 – ERCIM/EWICS/ARTEMIS Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems; SASSUR 2018 – Next Generation of System Assurance Approaches for Safety-Critical Systems; STRIVE 2018 – Safety, security, and privacy in automotive systems; and WAISE 2018 – Artificial Intelligence Safety Engineering. The chapter "Boxing Clever": Practical Techniques for Gaining Insights into Training Data and Monitoring Distribution Shift" is available open access under an Open Government License via link.springer.com.

This book provides a classification of current and future applications for the domain of Cooperating Objects. The book has been created with a very strong participation of the industry and taking into account current research trends and industrial roadmaps

PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems is the international yearly tribune to present, to discuss, and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development of Agents and Multi-Agent Systems. This volume presents the papers that have been accepted for the 2011 edition. These articles capture the most innovative results and this year's trends: Finance and Trading, Information Systems and Organisations, Leisure Culture and Interactions, Medicine and Cloud Computing, Platforms and Adaptation, Robotics and Manufacturing, Security and Privacy, Transports and Optimisation paper.

Advances in Production Management Systems. The Path to Intelligent, Collaborative and Sustainable Manufacturing

Dependable and Historic Computing

Microgrid Design and Operation: Toward Smart Energy in Cities

Definitions and Concepts

A Hands-On Guide to Reliable Security Audits

Management Information Systems

Research and Education in Robotics - EUROBOT 2011

***In recent years, the rising complexity of Internet of Things (IoT) systems has increased their potential vulnerabilities and introduced new cybersecurity challenges. In this context, state of the art methods and technologies for security risk assessment have prominent limitations when it comes to large scale, cyber-physical and interconnected IoT systems. Risk assessments for modern IoT systems must be frequent, dynamic and driven by knowledge about both cyber and physical assets. Furthermore, they should be more proactive, more automated, and able to leverage information shared across IoT value chains. This book introduces a set of novel risk assessment techniques and their role in the IoT Security risk management process. Specifically, it presents architectures and platforms for end-to-end security, including their implementation based on the edge/fog computing paradigm. It also highlights machine learning techniques that boost the automation and proactiveness of IoT security risk assessments. Furthermore, blockchain solutions for open and transparent sharing of IoT security information across the supply chain are introduced. Frameworks for privacy awareness, along with technical measures that enable privacy risk assessment and boost GDPR compliance are also presented. Likewise, the book illustrates novel solutions for security certification of IoT systems, along with techniques for IoT security interoperability. In the coming years, IoT security will be a challenging, yet very exciting journey for IoT stakeholders, including security experts, consultants, security research organizations and IoT solution providers. The book provides knowledge and insights about where we stand on this journey. It also attempts to develop a vision for the future and to help readers start their IoT Security efforts on the right foot.***

***This handbook offers comprehensive coverage of recent advancements in Big Data technologies and related paradigms. Chapters are authored by international leading experts in the field, and have been reviewed and revised for maximum reader value. The volume consists of twenty-five chapters organized into four main parts. Part one covers the fundamental concepts of Big Data technologies including data curation mechanisms, data models, storage models, programming models and programming platforms. It also dives into the details of implementing Big SQL query engines and big stream processing systems. Part Two focuses on the semantic aspects of Big Data management including data integration and exploratory ad hoc analysis in addition to structured querying and pattern matching techniques. Part Three presents a comprehensive overview of large scale graph processing. It covers the most recent research in large scale graph processing platforms, introducing several scalable graph querying and mining mechanisms in domains such as social networks. Part Four details novel applications that have been made possible by the rapid emergence of Big Data technologies such as Internet-of-Things (IOT), Cognitive Computing and SCADA Systems. All parts of the book discuss open research problems, including potential opportunities, that have arisen from the rapid progress of Big Data technologies and the associated increasing requirements of application domains. Designed for researchers, IT professionals and graduate students, this book is a timely contribution to the growing Big Data field. Big Data has been recognized as one of leading emerging technologies that will have a major contribution and impact on the various fields of science and varies aspect of the human society over the coming decades. Therefore, the content in this book will be an essential tool to help readers understand the development and future of the field.***

NEIS Conference 2016

Volume 2, Proceedings of the 2015 International Conference on Information Technology and Intelligent Transportation Systems ITITS 2015, held December 12-13, 2015, Xi'an China

Advances on Practical Applications of Agents and Multiagent Systems