

Views On Evolvability Of Embedded Systems

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Evolvability, the ability to respond effectively to change, represents a major challenge to today's high-end embedded systems, such as those developed in the medical domain by Philips Healthcare. These systems are typically developed by multi-disciplinary teams, located around the world, and are in constant need of upgrading to provide new advanced features, to deal with obsolescence, and to exploit emerging enabling technologies. Despite the importance of evolvability for these types of systems, the field has received scant attention from the scientific and engineering communities. Views on Evolvability of Embedded Systems focuses on the topic of evolvability of embedded systems from an applied scientific perspective. In particular, the book describes results from the Darwin project that researched evolvability in the context of Magnetic Resonance Imaging (MRI) systems. This project applied the Industry-as-Laboratory paradigm, in which industry and academia join forces to ensure continuous knowledge and technology transfer during the project's lifetime. The Darwin project was a collaboration between the Embedded Systems Institute, the MRI business unit of Philips Healthcare, Philips Research, and five Dutch universities. Evolvability was addressed from a system engineering perspective by a number of researchers from different disciplines such as software-, electrical- and mechanical engineering, with a clear focus on economic decision making. The research focused on four areas: data mining, reference architectures, mechanisms and patterns for evolvability, in particular visualization & modelling, and economic decision making. Views on Evolvability of Embedded Systems is targeted at both researchers and practitioners; they will not only find a state-of-the-art overview on evolvability research, but also guidelines to make systems more evolvable and new industrially-validated techniques to improve the evolvability of embedded systems.

The warehouses of the future will come in a variety of forms, but with a few common ingredients. Firstly, human operational handling of items in warehouses is increasingly being replaced by automated item handling. Extended warehouse automation counteracts the scarcity of human operators and supports the quality of picking processes. Secondly, the development of models to simulate and analyse warehouse designs and their components facilitates the challenging task of developing warehouses that take into account each customer's individual requirements and logistic processes. Automation in Warehouse Development addresses both types of automation from the innovative perspective of applied science. In particular, it describes the outcomes of the Falcon project, a joint endeavour by a consortium of industrial and academic partners. The results include a model-based approach to automate warehouse control design, analysis models for warehouse design, concepts for robotic item handling and computer vision, and autonomous transport in warehouses. Automation in Warehouse Development is targeted at both academic researchers and industrial practitioners. It provides state-of-the art research on warehouse automation and model-based warehouse design. These topics have been addressed from a systems engineering perspective by researchers from different disciplines including software, control, and mechanical engineering, with a clear focus on the industrial applications of their research.

Reverse engineering encompasses a wide spectrum of activities aimed at extracting information on the function, structure, and behavior of man-made or natural artifacts. Increases in data sources, processing power, and improved data mining and processing algorithms have opened new fields of application for reverse engineering. In this book, we present twelve applications of reverse engineering in the software engineering, shape engineering, and medical and life sciences application domains. The book can serve as a guideline to practitioners in the above fields to the state-of-the-art in reverse engineering techniques, tools, and use-cases, as well as an overview of open challenges for reverse engineering researchers.

This book discusses various aspects, challenges, and solutions for developing systems-of-systems for situation awareness, using applications in the domain of maritime safety and security. Topics include advanced, multi-objective visualization methods for situation awareness, stochastic outlier selection, rule-based anomaly detection, an ontology-based event model for semantic reasoning, new methods for semi-automatic generation of adapters bridging communication gaps, security policies for systems-of-systems, trust assessment, and methods to deal with the dynamics of systems-of-systems in run-time monitoring, testing, and diagnosis. Architectural considerations for designing information-centric systems-of-systems such as situation awareness systems, and an integrated demonstrator implementing many of the investigated aspects, complete the book.

In recent years, intelligent cities, also known as smart cities or cognitive cities, have become a perceived solution for improving the quality of life of citizens while boosting the efficiency of city services and processes. This new vision involves the integration of various sectors of society through the use of the internet of things. By continuing to enhance research for the better development of the smart environments needed to sustain intelligent cities, citizens will be empowered to provision the e-services provided by the city, city officials will have the ability to interact directly with the community as well as monitor digital environments, and smart communities will be developed where citizens can enjoy improved quality of life.

Developing and Monitoring Smart Environments for Intelligent Cities compiles the latest research on the development, management, and monitoring of digital cities and intelligent environments into one complete reference source. The book contains chapters that examine current technologies and the future use of internet of things frameworks as well as device connectivity approaches, communication protocols, security challenges, and their inherent issues and limitations. Including unique coverage on topics such as connected vehicles for smart transportation, security issues for smart homes, and building smart cities for the blind, this reference is ideal for practitioners, urban developers, urban planners, academicians, researchers, and students.

This book constitutes the refereed proceedings of the 15th International Conference on Product-Focused Software Process Improvement, PROFES 2014, held in Helsinki, Finland, in December 2014. The 18 revised full papers presented together with 14 short papers were carefully reviewed and selected from 45 initial submissions. The papers are organized in topical sections on agile development, decision-making, development practices and issues, product planning, and project management.

This book constitutes the refereed proceedings of the 5th Annual Smart City 360° Summit, held in Braga, Portugal, in December 2019. The volume combines selected papers of four conferences, namely IoT in Urban Space, Urb-IoT 2019, Smart Governance for Sustainable Smart Cities, SmartGov 2019, Sensor Systems and Software, S-Cube 2019, and Intelligent Technologies for Interactive Entertainment, Intertain 2019. The 5 keynote and 32 conference papers presented were carefully reviewed and selected from 113 submissions and present results of multidisciplinary scientific and industry collaboration to solve complex societal, technological and economic problems Smart Cities. As such, the main goals are to promote quality of life, work conditions, mobility and sustainability.

The book summarizes the main results of the the project ENABLE-S3 covering the following aspects: validation and verification technology bricks (collection and selection of test scenarios, test executions environments incl. respective models, assessment of test results), evaluation of technology bricks in selected use cases and standardization and related initiatives. ENABLE-S3 is an industry-driven EU-project and aspires to substitute todays' cost-intensive verification and validation efforts by more advanced and efficient methods. In addition, the book includes articles about complementary international activities in order to highlight the global importance of the topic and to cover the wide range of aspects that needs to be covered at a global scale.

Annotation This collection of 60 papers presented at the November 1999 symposium provides research results on non-traditional databases such as Internet-related technologies, handling of various kinds of data, supporting technologies for virtual organization, data models, system technologies, and applications. Topics include temporal issues in data warehouse systems, a semantic caching method based on linear constraints, multimedia document support inside the AHYDS platform, interacting with topological invariants of spatial databases, spatio-temporal levels of detail (LoD) for browsing video databases, and similarity retrieval of human motion as multi-stream time series data. No subject index. Annotation copyrighted by Book News, Inc., Portland, OR.

Intelligent system is an advanced machine that can perceive, learn, and solve the problems with a great accuracy. Technologies with intelligent system are currently available in the market and used in real-world applications, i.e., self-driving cars, Siri, Alexa, Facebook, and so on. To exceed human cognitive capabilities, the important keys rely on the development of sensors and algorithms. Therefore, the insight into artificial intelligence (AI) methods becomes a fundamental building block for design and construction of intelligent system with particular applications. This book aims to describe the AI systems ranging from the basic knowledge, i.e., algorithm and mathematical models of AI techniques, fundamentals of machine learning, genetic algorithm, and fuzzy logic, to the current state-of-the-art applications, such as smart road and biomedical applications.

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