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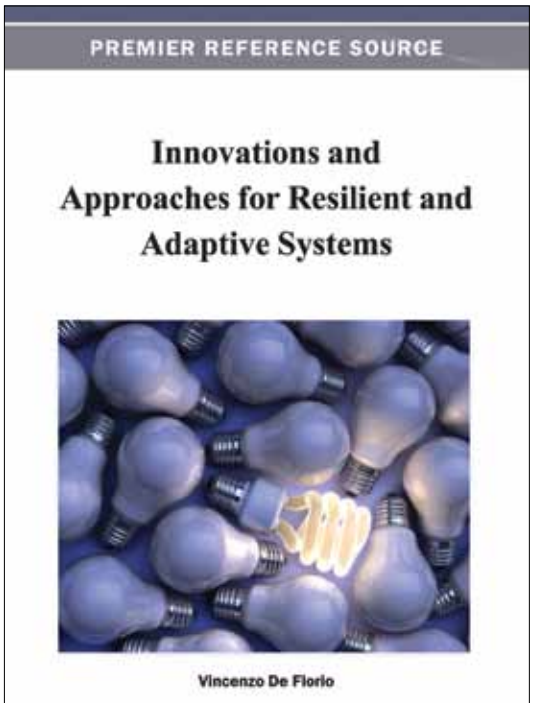
Innovations and Approaches for Resilient and Adaptive Systems



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Vincenzo De Florio (University of Antwerp and IBBT, Belgium)

Our society continues to depend upon systems that are built in a way that they end up being inflexible and intolerant to change. Therefore there is an urgent need to investigate innovations and approaches to the management of adaptive and dependable systems. These studies are usually implemented through design, development, and the evaluation of techniques and models to structure computer systems as adaptive systems.

Innovations and Approaches for Resilient and Adaptive Systems is a comprehensive collection of knowledge on increasing the notions and models in adaptive and dependable systems. This book aims to enhance the awareness of the role of adaptability and resilience in system environments for researchers, practitioners, educators, and professionals alike.

Topics Covered:

- Adaptive and Context-Aware Multimedia
- Adaptive Fault Models
- Adaptive Fault-Masking
- Methods Focusing on Optimizing Quality of Experience
- Methods, Models, and Architectures to Manage and Express Strategies and Provisions for Cross-Layer Adaptation
- Personalization
- Recovery-Oriented Computing
- Resilience Engineering

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Vincenzo De Florio received his "Laurea in Scienze dell'Informazione" (MSc, computer science) from the University of Bari (Italy, 1987) and his PhD in engineering from the University of Leuven (Belgium, 2000). He was a researcher for six years in Tecnopolis, formerly an Italian research consortium where he was responsible for the design, testing, and verification of parallel computing techniques for robotic vision and advanced image processing. Within Tecnopolis, Vincenzo was also part of SASIAM, the School for Advanced Studies in Industrial and Applied Mathematics, where he served as a researcher, lecturer, and tutor. He took part in several projects on parallel computing and computer vision funded by the Italian National Research Council. Vincenzo was then researcher for eight years with the Catholic University of Leuven (Belgium) in their ACCA division where he participated in several international projects on dependable computing (EFTOS, TIRAN, and DePauDE) He is currently a researcher with the Performance Analysis of Telecommunication Systems (PATS) research group at the University of Antwerp, where he is responsible for PATS' branch on adaptive and dependable systems under the guidance of Professor Chris Blondia. He is also a researcher with IBBT, the Flemish Interdisciplinary Institute for Broad-Band Technology. Vincenzo De Florio published about seventy reviewed research papers, fourteen which were for international research journals. He is member of various conference program committees. He is a local team leader for IST-NMP Project ARFLEX (Adaptive Robots for Flexible Manufacturing Systems). He is an editorial reviewer for several international conferences and journals. He also served as expert reviewer for the Austrian FFF. In the last few years, he has been teaching courses on computer architectures, advanced C language programming, and a course of seminars in computer science. He is co-chair of workshop ADAMUS (the Second IEEE WoWMoM Workshop on Adaptive and DependAble Mission- and bUsiness-critical mobile Systems, http://www.adamus.ua.ac.be). Vincenzo's interests include resilient computing, dependability, adaptive systems, embedded systems, distributed and parallel computing, linguistic support to non-functional services, complex dynamic systems modelling and simulation, autonomic computing, and more recently service orientation.