

Autonomic Computing

*Concepts, Infrastructure,
and Applications*

Edited by
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Salim Hariri



CRC Press
Taylor & Francis Group

Autonomic Computing Concepts Infrastructure And Applications

Phan Cong-Vinh



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McCann, Ada Diaconescu, 2013-05-13 This textbook provides a practical perspective on autonomic computing Through the combined use of examples and hands on projects the book enables the reader to rapidly gain an understanding of the theories models design principles and challenges of this subject while building upon their current knowledge Features provides a structured and comprehensive introduction to autonomic computing with a software engineering perspective supported by a downloadable learning environment and source code that allows students to develop execute and test autonomic applications at an associated website presents the latest information on techniques implementing self monitoring self knowledge decision making and self adaptation discusses the challenges to evaluating an autonomic system aiding the reader in designing tests and metrics that can be used to compare systems reviews the most relevant sources of inspiration for autonomic computing with pointers towards more extensive specialty literature *Nature-Inspired Networking* Phan Cong-Vinh, 2018-02-13 Nature inspired includes roughly speaking bio inspired physical inspired social inspired and so on This book contains highly original contributions about how nature is going to shape networking systems of the future Hence it focuses on rigorous approaches and cutting edge solutions which encompass three classes of major methods 1 Those that take inspiration from nature for the development of novel problem solving techniques 2 Those that are based on the use of networks to synthesize natural phenomena and 3 Those that employ natural materials to compute or communicate

Computational Intelligence and Decision Making Ana Madureira, Cecilia Reis, Viriato Marques, 2012-11-08 This book provides a general overview and original analysis of new developments and applications in several areas of Computational Intelligence and Information Systems Computational Intelligence has become an important tool for engineers to develop and analyze novel techniques to solve problems in basic sciences such as physics chemistry biology engineering environment and social sciences The material contained in this book addresses the foundations and applications of Artificial Intelligence and Decision Support Systems Complex and Biological Inspired Systems Simulation and Evolution of Real and Artificial Life Forms Intelligent Models and Control Systems Knowledge and Learning Technologies Web Semantics and Ontologies Intelligent Tutoring Systems Intelligent Power Systems Self Organized and Distributed Systems Intelligent Manufacturing Systems and Affective Computing The contributions have all been written by international experts who provide current views

on the topics discussed and present recent original insights from their own experience in these fields Ubiquitous Computing Stefan Poslad, 2011-08-10 This book provides an introduction to the complex field of ubiquitous computing Ubiquitous Computing also commonly referred to as Pervasive Computing describes the ways in which current technological models based upon three base designs smart mobile wireless service devices smart environments of embedded system devices and smart interaction between devices relate to and support a computing vision for a greater range of computer devices used in a greater range of human ICT and physical environments and activities The author details the rich potential of ubiquitous computing the challenges involved in making it a reality and the prerequisite technological infrastructure Additionally the book discusses the application and convergence of several current major and future computing trends Key Features Provides an introduction to the complex field of ubiquitous computing Describes how current technology models based upon six different technology form factors which have varying degrees of mobility wireless connectivity and service volatility tabs pads boards dust skins and clay enable the vision of ubiquitous computing Describes and explores how the three core designs smart devices environments and interaction based upon current technology models can be applied to and can evolve to support a vision of ubiquitous computing and computing for the future Covers the principles of the following current technology models including mobile wireless networks service oriented computing human computer interaction artificial intelligence context awareness autonomous systems micro electromechanical systems sensors embedded controllers and robots Covers a range of interactions between two or more UbiCom devices between devices and people HCI between devices and the physical world Includes an accompanying website with PowerPoint slides problems and solutions exercises bibliography and further reading Graduate students in computer science electrical engineering and telecommunications courses will find this a fascinating and useful introduction to the subject It will also be of interest to ICT professionals software and network developers and others interested in future trends and models of computing and interaction over the next decades Computational Intelligence for Engineering Systems Ana Madureira, Judite Ferreira, Zita Vale, 2010-11-23 Computational Intelligence for Engineering Systems provides an overview and original analysis of new developments and advances in several areas of computational intelligence Computational Intelligence have become the road map for engineers to develop and analyze novel techniques to solve problems in basic sciences such as physics chemistry and biology and engineering environmental life and social sciences The contributions are written by international experts who provide up to date aspects of the topics discussed and present recent original insights into their own experience in these fields The authors also include methods that apply to diverse fields such as manufacturing tourism power systems computer science robotics chemistry and biology Topics include Simulation and evolution of real and artificial life forms Self organization Models of communication and social behaviors Emergent collective behaviors and swarm intelligence Adaptive complex and biologically inspired systems Power Systems Web based Applications Knowledge discovery Intelligent Tutoring Systems Decision support

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