

Autonomic Computing

*Concepts, Infrastructure,
and Applications*

Edited by
Manish Parashar
Salim Hariri



CRC Press
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Autonomic Computing Concepts Infrastructure And Applications

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Autonomic Computing and Networking Mieso Denko, Laurence Tianruo Yang, Yan Zhang, 2009-06-12 Autonomic Computing and Networking presents introductory and advanced topics on autonomic computing and networking with emphasis on architectures protocols services privacy security simulation and implementation testbeds Autonomic computing and networking are new computing and networking paradigms that allow the creation of self managing and self controlling computing and networking environments using techniques such as distributed algorithms and context awareness to dynamically control networking functions without human interventions Autonomic networking is characterized by recovery from failures and malfunctions agility to changing networking environment self optimization and self awareness The self control and management features can help to overcome the growing complexity and heterogeneity of exiting communication networks and systems The realization of fully autonomic heterogeneous networking introduces several research challenges in all aspects of computing and networking and related fields

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autonomic computing and exploring the architectures required to implement such a system The focus then shifts to the approaches and infrastructures including control based and recipe based concepts followed by enabling systems technologies and services proposed for achieving a set of self properties including self configuration self healing self optimization and self protection In the final section examples of real world implementations reflect the potential of emerging autonomic systems such as dynamic server allocation and runtime reconfiguration and repair Collecting cutting edge work and perspectives from leading experts *Autonomic Computing Concepts Infrastructure and Applications* reveals the progress made and outlines the future challenges still facing this exciting and dynamic field *Autonomic Computing* Philippe Lalanda, Julie A.

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

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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

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Systems Decision support Systems Intelligent Tutoring Systems *Parallel Programming, Models and Applications in Grid and P2P Systems* Fatos Xhafa, 2009 The demand for more computing power has been a constant trend in many fields of science engineering and business Now more than ever the need for more and more processing power is emerging in the resolution of complex problems from life sciences financial services drug discovery weather forecasting massive data processing for e science e commerce and e government etc Grid and P2P paradigms are based on the premise to deliver greater computing power at less cost thus enabling the solution of such complex problems *Parallel Programming Models and Applications in Grid and P2P Systems* presents recent advances for grid and P2P paradigms middleware programming models communication libraries as well as their application to the resolution of real life problems By approaching grid and P2P paradigms in an integrated and comprehensive way we believe that this book will serve as a reference for researchers and developers of the grid and P2P computing communities Important features of the book include an up to date survey of grid and P2P programming models middleware and communication libraries new approaches for modeling and performance analysis in grid and P2P systems novel grid and P2P middleware as well as grid and P2P enabled applications for real life problems Academics scientists software developers and engineers interested in the grid and P2P paradigms will find the comprehensive coverage of this book useful for their academic research and development activity Knowledge-Based and Intelligent Information and Engineering Systems Juan D. Velásquez, Sebastián A. Ríos, 2009-09-15 The two volume set LNAI 5711 and LNAI 5712 constitutes the refereed proceedings of the 13th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2009 held in Santiago de Chile in September 2009 The 153 revised papers presented were carefully reviewed and selected from numerous submissions The topics covered are fuzzy and neuro fuzzy systems agent systems knowledge based and expert systems miscellaneous generic intelligent systems topics intelligent vision and image processing knowledge management ontologies and data mining web intelligence text and multimedia mining and retrieval other advanced knowledge based systems innovations in chance discovery advanced knowledge based systems multi agent negotiation and coordination innovations in intelligent systems intelligent technology approach to management engineering data mining and service science for innovation knowledge based systems for e business video surveillance social networks advanced engineering design techniques for adaptive systems knowledge technology in learning support advanced information system for supporting personal activity design of intelligent society knowledge based interface systems knowledge based multi criteria decision support soft computing techniques and their applications immunity based systems The book also includes three keynote speaker plenary presentations

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