



Autonomic and Trusted Computing

By Juergen Branke

Springer-Verlag GmbH Nov 2010, 2010. Taschenbuch. Book Condition: Neu. 243x156x29 mm. Neuware - Computing systems including hardware, software, communication, and networks are becoming increasingly large and heterogeneous. In short, they have become increasingly complex. Such complexity is getting even more critical with the ubiquitous permeation of embedded devices and other pervasive systems. To cope with the growing and ubiquitous complexity, autonomic computing (AC) focuses on self-manageable computing and communication systems that exhibit self-awareness, self-configuration, self-optimization, self-healing, self-protection and other self-properties to the maximum extent possible without human intervention or guidance. Organic computing (OC) additionally addresses adaptability, robustness, and controlled emergence as well as nature-inspired concepts for self-organization. Any autonomic or organic system must be trustworthy to avoid the risk of losing control and retain confidence that the system will not fail. Trust and/or distrust relationships in the Internet and in pervasive infrastructures are key factors to enable dynamic interaction and cooperation of various users, systems, and services. Trusted/trustworthy computing (TC) aims at making computing and communication systems--as well as services--available, predictable, traceable, controllable, assessable, sustainable, dependable, persistent, security/privacy protectable, etc. A series of grand challenges exists to achieve practical autonomic or organic systems with...



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