



Autonomic Road Transport Support Systems: 2016

By Apostolos Kotsialos, J.P. Muller, Rene Schumann, Lee McCluskey, Omer F. Rana

Birkhauser Verlag AG. Paperback. Book Condition: new. BRAND NEW, Autonomic Road Transport Support Systems: 2016, Apostolos Kotsialos, J.P. Muller, Rene Schumann, Lee McCluskey, Omer F. Rana, The work on Autonomic Road Transport Support (ARTS) presented here aims at meeting the challenge of engineering autonomic behavior in Intelligent Transportation Systems (ITS) by fusing research from the disciplines of traffic engineering and autonomic computing. Ideas and techniques from leading edge artificial intelligence research have been adapted for ITS over the last 30 years. Examples include adaptive control embedded in real time traffic control systems, heuristic algorithms (e.g. in SAT-NAV systems), image processing and computer vision (e.g. in automated surveillance interpretation). Autonomic computing which is inspired from the biological example of the body's autonomic nervous system is a more recent development. It allows for a more efficient management of heterogeneous distributed computing systems. In the area of computing, autonomic systems are endowed with a number of properties that are generally referred to as self-X properties, including self-configuration, self-healing, self-optimization, self-protection and more generally self-management. Some isolated examples of autonomic properties such as self-adaptation have found their way into ITS technology and have already proved beneficial. This edited volume provides a comprehensive introduction to...

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