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As the complexity of today's networked computer systems grows, they become increasingly difficult to understand, predict, and control. Addressing these challenges requires new approaches to building these systems. **Adaptive, Dynamic, and Resilient Systems** supplies readers with various perspectives of the critical infrastructure that systems of networked computers rely on. It introduces the key issues, describes their interrelationships, and presents new research in support of these areas.

The book presents the insights of a different group of international experts in each chapter. Reporting on recent developments in adaptive systems, it begins with a survey of application fields. It explains the requirements of such fields in terms of adaptation and resilience. It also provides some abstract relationship graphs that illustrate the key attributes of distributed systems to supply you with a better understanding of these factors and their dependencies.

The text examines resilient adaptive systems from the perspectives of mobile, infrastructure, and enterprise systems and protecting critical infrastructure. It details various approaches for building adaptive, dynamic, and resilient systems?including agile, grid, and autonomic computing; multi-agent-based and biologically inspired approaches; and self-organizing systems.

The book includes many stories of successful applications that illustrate a diversified range of cutting-edge approaches. It concludes by covering related topics and techniques that can help to boost adaptation and resilience in your systems.

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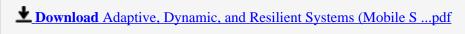- Sales Rank: #3177602 in Books
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Editorial Review

About the Author

Niranjan Suri is a research scientist at the Florida Institute for Human & Machine Cognition (IHMC) and also a visiting scientist at the U.S. Army Research Laboratory, Adelphi, Maryland. He received his Ph.D. in computer science from Lancaster University, England, and his M.Sc. and B.Sc. in computer science from the University of West Florida, Pensacola. His current research activity is focused on the notion of agile computing, which supports the opportunistic discovery and exploitation of resources in highly dynamic networked environments. His other research interests include coordination algorithms, distributed systems, networking, communication protocols, virtual machines, and software agents.

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- Agents: base models and coordination protocols
- Autonomic computing
- Web applications
- Mobile computing

In these areas, he has published around 140 papers in international and national journals and in international and national proceedings and he has received six best paper awards. He is (and has been) involved in international and national projects. He is member of several program committees of international conferences; he is and has been chair of several international workshops; and he has been general chair of IEEE WETICE 2004, of ACM PPPJ 2008, and of IEEE WETICE 2014. For more information, see the web page: http://www.agentgroup.unimo.it/

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