

Handbook of Research on Redesigning the Future of Internet Architectures

Part of the Advances in Web Technologies and Engineering (AWTE) Book Series

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Description:

As the volume of global Internet traffic increases, the Internet is beginning to suffer from a broad spectrum of performance-degrading infrastructural limitations that threaten to jeopardize the continued growth of new, innovative services. In answer to this challenge, computer scientists seek to maintain the original design principles of the Internet while allowing for a more dynamic approach to the manner in which networks are designed and operated.

The **Handbook of Research on Redesigning the Future of Internet Architectures** covers some of the hottest topics currently being debated by the Internet community at large, including Internet governance, privacy issues, service delivery automation, advanced networking schemes, and new approaches to Internet traffic-forwarding and path-computation mechanics.

Readers:

Targeting students, network-engineers, and technical strategists, this book seeks to provide a broad and comprehensive look at the next wave of revolutionary ideas poised to reshape the very foundation of the Internet as we know it.

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Topics Covered:

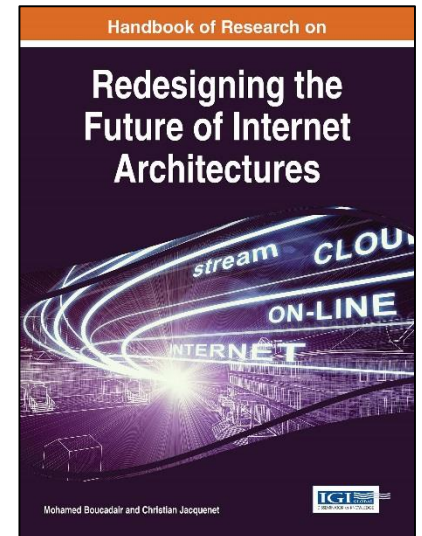
- Application-Enabled Collaborative Networking (AECN)
- Content Delivery Networks
- Healthcare Service-Delivery
- Internet Governance
- Mobile Networking
- Network Function Virtualization
- Online Anonymity
- Power-Aware Networking
- Routing Schemes
- Service-Oriented Networking
- Transport Networks

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Part I: Internet Governance, Regulatory Aspects & Privacy Considerations

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*The Future of Internet Governance – Modeling the dynamics of the Internet governance: A Bayesian Belief Network approach***Martin A Negrón, George Washington University**

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*Internet identity and the right to be forgotten: international trends and regulatory perspectives***Valentina Amenta, Institute for Informatics and Telematics - Italian National Research Council****Adriana Lazzaroni, Institute for Informatics and Telematics - Italian National Research Council****Laura Abba, Institute of Informatics and Telematics of the Italian National Research Council (CNR)**

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*Towards Privacy Awareness in Internet Technologies***Hosnieh Rafiee, Huawei Technologies Duesseldorf GmbH
Christoph Meinel, Hasso Plattner Institute****Part II: Novel Networking Approaches**

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*The whole world is going mobile***Charles E Perkins**

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