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Overview and Goals
Wireless
communication

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technologies are undergoing rapid advancements. The past few years have experienced a steep growth in research in the area of wireless ad hoc networks. The attractiveness of ad hoc networks, in general, is attributed to their characteristics /features such as ability for

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infrastructure-less setup, minimal or no reliance on network planning and the ability of the nodes to self-organize and self-configure without the involvement of a centralized n- work manager, router, access point or a switch. These features help to set up a network fast in

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situations where there is no existing network setup or in times when setting up a fixed infrastructure network is considered infeasible, for example, in times of emergency or during relief operations. Even though ad hoc networks have emerged to be attractive and they

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hold great promises for our future, there are several challenges that need to be addressed.

Some of the well-known challenges are attributed to issues relating to scalability, quality-of-service, energy efficiency and security.

Introduction to

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Network Simulator

NS2 is a primer providing materials for NS2 beginners, whether students, professors, or researchers for understanding the architecture of Network Simulator 2 (NS2) and for incorporating simulation modules into NS2. The authors

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discuss the simulation architecture and the key components of NS2 including simulation-related objects, network objects, packet-related objects, and helper objects. The NS2 modules included within are nodes, links, SimpleLink objects, packets, agents, and

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applications. Further, the book covers three helper modules: timers, random number generators, and error models. Also included are chapters on summary of debugging, variable and packet tracing, result compilation, and examples for extending NS2. Two appendices provide

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the details of scripting language Tcl, OTcl and AWK, as well object oriented programming used extensively in NS2.

This book constitutes the refereed proceedings of the 6th International IFIP-TC6 Networking Conference, NETWORKING 2007,

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held in Atlanta, GA,
USA in May 2007.

The 99 revised full
papers and 30 poster
papers were carefully
reviewed and
selected from 440
submissions. The
papers are organized
in topical sections on
ad hoc and sensor
networks: connectivity
and coverage,
scheduling and

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resource allocation,
mobility and location
awareness, routing,
and key management;
wireless networks:
mesh networks,
mobility, TCP, MAC
performance, as well
as scheduling and
resource allocation;
next generation inte.

Simulation is a widely
used mechanism for

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validating the theoretical models of networking and communication systems. Although the claims made based on simulations are considered to be reliable, how reliable they really are is best determined with real-world implementation trials. Simulation Technologies in

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Wireless
Networking and

Communications:
Selecting the Best

Tool for the Test

addresses the

spectrum of issues

regarding the different

mechanisms related

to simulation

technologies in

networking and

communications

fields. Focusing on

the practice of

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simulation testing
instead of the theory,
it presents the work of
more than 50 experts
from around the
world. Considers
superefficient Monte
Carlo simulations
Describes how to
simulate and evaluate
multicast routing
algorithms Covers
simulation tools for
cloud computing and

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Broadband Passive
optical networks
Wireless
Networks
Reports on recent
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modeling and
simulation of vehicular
networks The book
compiles expert
perspectives about
the simulation of
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technologies. These experts review and evaluate popular simulation modeling tools and recommend the best tools for your specific tests. They also explain how to determine when theoretical modeling would be preferred over simulation. This book does not provide a verdict on the best

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Manual For
simulation. Instead, it
supplies authoritative
analyses of the
different kinds of
networks and
systems. Presenting
best practices and
insights from global
experts, the book
provides you with an
understanding of what
to simulate, where to
simulate, whether to

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simulate or not, when to simulate, and how to simulate for a wide range of issues.

With Friendly: Pre-K Fun Pad, kids can have fun mastering key concepts from anywhere. The convenient format is perfect for the car, waiting rooms, restaurants, and

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more. Plus, with dozens of colorful, game-based activities covering the alphabet, numbers, colors, shapes, and more, kids will be engaged and interested in learning. And they'll love the colorful sticker sheet!

This book constitutes
the refereed

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proceedings of the
11th International
Conference on Ad-
hoc, Mobile, and
Wireless Networks,
ADHOC-NOW 2012
held in Belgrade,
Serbia, July 9-11,
2012. The 36 revised
full papers presented
were carefully
reviewed and
selected from 76
submissions. The

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Accepted Papers

cover a wide spectrum of traditional networking topics ranging from routing to the application layer, to localization in various networking environments such as wireless sensor and ad-hoc networks, and give insights in a variety of application areas.

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This book constitutes the refereed proceedings of the 5th International Symposium on Parallel and Distributed Processing and Applications, ISPA 2007, held in Niagara Falls, Canada, in August 2007. The 83 revised full papers

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presented together with three keynote are cover algorithms and applications, architectures and systems, datamining and databases, fault tolerance and security, middleware and cooperative computing, networks, as well as software and languages.

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While wireless technologies continue to provide an array of new challenges and multi-domain applications for business processes and solutions, there still remains to be a comprehensive understanding of its various dimensions and environments.

Security, Design, and

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Architecture For Broadband and Wireless Network Technologies

provides a discussion on the latest research achievements in wireless networks and broadband technology.

Highlighting new trends, applications, developments, and standards, this book

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is essential for next generation researchers and practitioners in the ICT field.

Wireless Vehicular Networks for Car Collision Avoidance focuses on the development of the ITS (Intelligent Transportation Systems) in order to

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minimize vehicular accidents. The book presents and analyses a range of concrete accident scenarios while examining the causes of vehicular collision and proposing countermeasures based on wireless vehicular networks. The book also describes the

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vehicular network
standards and quality
of service
mechanisms focusing
on improving critical
dissemination of
safety information.

With
recommendations on
techniques and
protocols to consider
when improving road
safety policies in
order to minimize

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crashes and collision
risks.

Wireless

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This book constitutes
the thoroughly
refereed post-
conference
proceedings of the 6th
International ICST
Conference on Mobile
Multimedia
Communications
(MOBIMEDIA 2010)
held in Lisbon,

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Portugal, in
September 2010,
which was
accompanied by the
First International
Workshop on
Cognitive Radio and
Cooperative
Strategies for
POWER Saving
(C2POWER 2010),
the Workshop on
Impact of Scalable
Video Coding on

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Multimedia For
Provisioning
(SVC Vision 2010),
and the First
International
Workshop on Energy-
efficient and
Reconfigurable
Transceivers (EERT
2010). The 59 revised
full papers presented
were carefully
reviewed and
selected from

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numerous submissions and are organized in topical sections on advanced techniques for video transmission; multimedia distribution; modelling of wireless systems; cellular networks; mobility concepts for IMT-advances (MOBILIA); media independent

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applications and
services for next
generation networks
(PEACE).

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