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Authors	Rainer Gerlich and Ralf Gerlich
Subject	Computer Science, Information Systems Applications (incl.Internet), Management of Computing and Information Systems, Information Systems and Communication Service, Database Management, Management, Technology Management and Business and Economics
Text	PDF (3,750 kb)

4. Book Add to marked items  
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Publisher	Springer New York
DOI	10.1007/0-387-29831-2
Copyright	2006
ISBN	978-0-387-25717-4 (Print) 978-0-387-29831-3 (Online)
Editor	Reuben Hersh
Subject	Mathematics, Mathematical Logic and Foundations, Mathematics, general and Mathematics and Statistics
Text	PDF (1,744 kb)

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Publisher	Springer Berlin Heidelberg
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Editors	Matthias Angermeyer and Holger Steinberg
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Mathematics and Statistics (1,500)  
Medicine (1,307)  
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2006 (3,346)  
**2005 (3,379)**  
2004 (1,023)  
2003 (706)  
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2001 (408)  
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**Publication**

Lecture Notes in Computer Science (2,586)  
Lecture Notes in Physics (112)  
Lecture Notes in Mathematics (104)  
Topics in Current Chemistry (47)

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Argumente und Entscheidungshilfen für Manager Konzepte und Anleitungen für Praktiker

Publisher Springer Berlin Heidelberg

DOI 10.1007/b138946

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ISBN 978-3-540-20910-2 (Print) 978-3-540-27344-8 (Online)

Book Series Xpert.press

Authors Rainer Gerlich and Ralf Gerlich

Subject Computer Science, Information Systems Applications (incl.Internet), Management of Computing and Information Systems, Information Systems and Communication Service, Database Management, Management, Technology Management and Business and Economics

Text PDF (3,750 kb)

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Editors Matthias Angermeyer and Holger Steinberg

Subject Medicine & Public Health, Psychiatry, History of Medicine and Medicine

Text PDF (5,656 kb)

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Italian (21)

Unspecified (4)

**Subject**

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Engineering (805)

Medicine (528)

Mathematics and Statistics (484)

Physics and Astronomy (467)

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# Sub-subject in CS: Computer Communication Networks

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A Simulation System for Modeling Groundwater Flow and Transport Processes

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DOI	10.1007/3-540-27592-4
Copyright	2005
ISBN	978-3-540-27590-9 (Print) 978-3-540-27592-3 (Online)
Author	Wen-Hsing Chiang
Subject	Geosciences, Environmental Computing/Environmental Modelling, Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution, Simulation and Modeling, Applied Geosciences, Computer Applications in Geosciences, Structural Foundations, Hydraulic Engineering and Engineering
Text	PDF (6,393 kb)

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ISBN	978-3-540-40486-6 (Print) 978-3-540-26985-4 (Online)
Book Series	Xpert.press
Author	Thomas Winkler
Subject	Computer Science, Programming Techniques, Software Engineering, Programming Languages, Compilers, Interpreters, Information Systems Applications (incl.Internet) and Database Management
Text	PDF (18,286 kb)

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- Business and Economics (82)
- Information Systems Applications (incl.Internet) (58)
- Artificial Intelligence (incl. Robotics) (56)
- Programming Techniques (55)
- Software Engineering/Programming and Operating Systems (45)
- Computer Communication Networks (36)**
- Communications Engineering, Networks (30)
- Business Information Systems (29)

**Publication**

- Lecture Notes in Computer Science

# Keyword: :Wireless

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**Active Directory Field Guide**

Publisher	Apress
DOI	10.1007/978-1-4302-0030-7
Copyright	2005
ISBN	978-1-59059-492-6 (Print) 978-1-4302-0030-7 (Online)
Author	Laura Hunter
Subject	Computer Science and Computer Communication Networks
Text	PDF (3,577 kb)

2. Book Add to marked items  
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Publisher	Springer US
DOI	10.1007/b99485

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Multuser Detection in Cross-Layer Design

Authors	Cristina Comaniciu, Narayan Mandayam and H. Poor
Copyright	2005
Text	PDF (8,986 kb)

2. Book **Emerging Location Aware Broadband Wireless Ad Hoc Networks** Add to marked items

Editors	Rajamani Ganesh, Sastri Kota, Kaveh Pahlavan and Ramón Agustí
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Text	PDF (12,066 kb)

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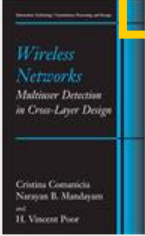
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Content Types Subjects English

**Book**

**Wireless Networks**



**Wireless Networks**  
Multiuser Detection in Cross-Layer Design  
Book Series Information Technology: Transmission, Processing, and Storage  
Publisher Springer US  
DOI 10.1007/0-387-27750-1  
Copyright 2005  
ISBN 978-0-387-23697-1 (Print) 978-0-387-27750-9 (Online)  
SpringerLink Date Wednesday, June 14, 2006  
Subject Engineering, Communications Engineering, Networks, Signal, Image and Speech Processing, Power Engineering, Engineering Design, Computer Communication Networks and Computer Science

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DOI	10.1007/0-387-27750-1_2	
Text	PDF (1,887 kb)	
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DOI	10.1007/0-387-27750-1_5	
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## 1. Introduction to Radio Resource Allocation

A common characteristic of multiple access wireless communication systems is that their capacity is limited by interference. As a result, admission of a new user into such a system results in more interference to the existing users and a consequent degradation in their signal quality. When the number of active users in the network reaches a certain value, the quality of transmission can become unacceptably low due to interference, implying that additional users cannot be admitted immediately if a certain Quality of Service (QoS) is required. Further, an inherent characteristic of wireless channels is the variation encountered in space, time and frequency due to mobility and to propagation effects encountered by radio waves. The propagation effects are usually classified into two categories: small-scale fluctuations due to scattering, and large-scale fluctuations due to shadowing. The traditional treatment of resource allocation in wireless systems is based on signal quality measurements that are averaged over time scales where small-scale fluctuations become insignificant. As a result, most approaches to understanding and designing resource allocation strategies take into consideration primarily path loss models and occasionally slowly varying large-scale fading effects due to shadowing.

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