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Advancements in Distributed Computing and Internet Technologies: Trends and Issues

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The benefits of distributed computing are evidenced by the increased functionality, retrieval capability, and reliability it provides for a number of networked applications. The growth of the Internet into a critical part of daily life has encouraged further study on how data can better be transferred, managed, and evaluated in an ever-changing online environment.

Advancements in Distributed Computing and Internet Technologies: Trends and Issues compiles recent research trends and practical issues in the fields of distributed computing and Internet technologies. The book provides advancements on emerging technologies that aim to support the effective design and implementation of service-oriented networks, future Internet environments, and building management frameworks. Research on Internet-based systems design, wireless sensor networks and their application, and next generation distributed systems will inform graduate students, researchers, academics, and industry practitioners of new trends and vital research in this evolving discipline.

Topics Covered:

- Cloud-Based Applications
- Indoor Sensor Networks
- IPTV Challenges and Solutions
- Multiple Source, Multiple Destination Network Tomography
- Next Generation Mobile Networks
- Publish/Subscribe Techniques for P2P Networks
- Service Provision Evolution
- Time-Critical Wireless Sensor Networks
- Ubiquitous Sensor Networks

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Al-Sakib Khan Pathan received Ph.D. degree in Computer Engineering in 2009 from Kyung Hee University, South Korea. He received B.Sc. degree in Computer Science and Information Technology from Islamic University of Technology (IUT), Bangladesh in 2003. He is currently an Assistant Professor at Computer Science department in International Islamic University Malaysia (IIUM), Malaysia. Till June 2010, he served as an Assistant Professor at Computer Science and Engineering department in BRAC University, Bangladesh. Prior to holding this position, he worked as a Researcher at Networking Lab, Kyung Hee University, South Korea till August 2009. His research interest includes wireless sensor networks, network security, and e-services technologies. He is a recipient of several awards/best paper awards and has several publications in these areas. He has served as a Chair, Organizing Committee Member, and Technical Program Committee member in numerous international conferences/workshops like HPCS, ICA3PP, WiMob, HPCC, IDCS, et cetera. He is currently serving as the Editor-in-Chief of *IJIDCS*, an Area Editor of *IJCNIS*, Associate Editor of *IASTED/ACTA Press IJCA*, Guest Editor of some special issues of Elsevier's and Springer's journals, and Editor of two books. He also serves as a referee of a few renowned journals such as *IEEE Transactions on Dependable and Secure Computing* (IEEE TDSC), *IEEE Transactions on Vehicular Technology* (IEEE TVT), *IEEE Communications Letters, Journal of Communications and Networks* (JCN), *Elsevier's Computer Communications, Computer Standards and Interfaces*, *IOS Press JHSN, EURASIP JWCN*, etc. He is a member of Institute of Electrical and Electronics Engineers (IEEE), IEEE Communications Society (IEEE ComSoc), IEEE ComSoc Bangladesh Chapter, and several other international organizations.

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Chapter 1
Analysis and Modeling of QoS Parameters in VoIP Traffic
Toral-Cruz Homero (University of Quintana Roo, Mexico)
Torres-Román Deni (Center of Research and Advanced Studies, Mexico)
Estrada-Vargas Leopoldo (Center of Research and Advanced Studies, Mexico)

Chapter 2
End-to-End Dataflow Parallelism for Transfer Throughput Optimization
Yildirim Esma (Louisiana State University,, USA)
Kosar Tevfik (University at Buffalo (SUNY), USA)

Chapter 3
IPTV Challenges and Solutions in Metro Networks
Zare Sajjad (Sahand University of Technology, Iran)
Ghaffarpour Rahbar Akbar (Sahand University of Technology, Iran)

Chapter 4
Utilization of Latency Measurements for Network-Based Applications
Jubaer Arif Mohammed (The University of Melbourne, Australia)

Chapter 5
MINTCar:
Bobelin Laurent (CNRS, France)

Chapter 6
Service Provision Evolution in Self-Managed Future Internet Environments
Kousaridas Apostolos (University of Athens, Greece)
Madgalinos Panagis (University of Athens, Greece)
Alonistioti Nancy (University of Athens, Greece)

Section 2: Wireless Sensor Networks and Applications

Chapter 7
Evaluating the Performance of the IEEE 802.15.4 Standard in Supporting Time-Critical Wireless Sensor Networks
Lino Carlos (Universidad Politécnica de Valencia, Spain)
Calafate Carlos T. (Universidad Politécnica de Valencia, Spain)
Manzoni Pietro (Universidad Politécnica de Valencia, Spain)
Cano Juan-Carlos (Universidad Politécnica de Valencia, Spain)
Díaz Arnoldo (Instituto Tecnológico de Mexicali, México)

Chapter 8
Data Gathering with Multi-Attribute Fusion in Wireless Sensor Networks
Lin Kai (Dalian University of Technology, China)
Wang Lei (Dalian University of Technology, China)
Shu Lei (Osaka University, Japan)
Khan Pathan Al-Sakib (International Islamic University, Malaysia)

Chapter 9
Security Issues on Outlier Detection and Countermeasure for Distributed Hierarchical Wireless Sensor Networks
Zhang Yiying (Shenyang Institute of Engineering, China)
He Lin (Korea University, South Korea)
Shu Lei (Osaka University, Japan)
Hara Takahiro (Osaka University, Japan)
Nishio Shojiro (Osaka University, Japan)

Chapter 10
Computationally Efficient Cooperative Public Key Authentication Protocols in Ubiquitous Sensor Network
Mohaisen Abedelaziz (University of Minnesota Twin Cities, USA)
AbuHmed Tamer (Inha University,South Korea)
Nyang DaeHun (Inha University, South Korea)

Chapter 11
RNST:
Han Guangjie (Hohai University, China)
Shen Wen (Hohai University, China)
Zhu Chuan (Hohai University, China)
Shu Lei (Osaka University, Japan)
Rodrigues Joel (University of Beira Interior, Portugal)

Chapter 12
A WSN-Based Building Management Framework to Support Energy-Saving Applications in Buildings
Guerrieri Antonio (University of Calabria, Italy)
Fortino Giancarlo (University of Calabria, Italy)
Ruzzelli Antonio (University College Dublin, Ireland)
O'Hare Gregory (University College Dublin, Ireland)

Section 3: Next Generation Distributed Systems

Chapter 13
Publish/Subscribe Techniques For P2P Networks
Pham Cuong (University of Massachusetts, USA)
Tran Duc A. (University of Massachusetts, USA)

Chapter 14
A P2P-Based Strongly Distributed Network Polling Solution
Melchiors Cristina (Federal University of Rio Grande do Sul, Brazil)
Teixeira Mattjie Dionatan (Federal University of Rio Grande do Sul, Brazil)
Paula dos Santos Carlos Raniery (Federal University of Rio Grande do Sul, Brazil)
Panisson André (Federal University of Rio Grande do Sul, Brazil)
Zambenedetti Granville Lisandro (Federal University of Rio Grande do Sul, Brazil)
Margarida Rockenbach Tarouco Liane (Federal University of Rio Grande do Sul, Brazil)

Chapter 15
Service-Oriented Networking for the Next Generation Distributed Computing
Duan Qiang (Pennsylvania State University, U.S.A.)

Chapter 16
Long-Term Evolution (LTE):
He Bing (Aviat Networks Inc., USA)
Xie Bin (InfoBeyond Technology LLC, USA)
Agrawal Sanjuli (InfoBeyond Technology LLC, USA)
Zhao David (CERDEC, USA)
Reddy Ranga (CERDEC, USA)

Chapter 17
Service Level Provisioning for Cloud-Based Applications Service Level Provisioning for Cloud-Based Applications
Cardellini Valeria (University of Roma, Italy)
Casalicchio Emiliano (University of Roma, Italy)
Silvestri Luca (University of Roma, Italy)

Chapter 18
Decentralization in Distributed Systems:
Rahman Mustafizur (The University of Melbourne, Australia)
Ranjan Rajiv (The University of New South Wales, Australia)
Buyya Rajkumar (The University of Melbourne, Australia)

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