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

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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, IDCSC, et cetera. He is currently serving as the Editor-in-Chief of IJIDCS, an Area Editor of IFACIS, Associate Editor of LASTED/ACTA Press IFCA, 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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