Peer-to-Peer Computing: Applications, Architecture, Protocols, and Challenges (Chapman & Hall/CRC Computational Science)

By Yu-Kwong Ricky Kwok

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While people are now using peer-to-peer (P2P) applications for various processes, such as file sharing and video streaming, many research and engineering issues still need to be tackled in order to further advance P2P technologies. **Peer-to-Peer Computing: Applications, Architecture, Protocols, and Challenges** provides comprehensive theoretical and practical coverage of the major features of contemporary P2P systems and examines the obstacles to further success.

Setting the stage for understanding important research issues in P2P systems, the book first introduces various P2P network architectures. It then details the topology control research problem as well as existing technologies for handling topology control issues. The author describes novel and interesting incentive schemes for enticing peers to cooperate and explores recent innovations on trust issues. He also examines security problems in a P2P network. The final chapter addresses the future of the field. Throughout the text, the highly popular P2P IPTV application, PPLive, is used as a case study to illustrate the practical aspects of the concepts covered.

Addressing the unique challenges of P2P systems, this book presents practical applications of recent theoretical results in P2P computing. It also stimulates further research on critical issues, including performance and security problems.

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Editorial Review

About the Author

Yu-Kwong Ricky Kwok is a professor at the University of Hong Kong, where he is also the chairman of the Departmental Curriculum Review and Development Committee (DCRDC). A senior member of ACM and IEEE, Dr. Kwok has held positions at Colorado State University, the University of Southern California, and Purdue University. He has co-authored two books and published more than 180 technical papers. His research focuses on designing efficient communication protocols and secure resources management algorithms toward enabling large scale distributed mobile computing.

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