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   Titolo   VoIP Technology: Applications and Challenges [[electronic resource] /] / by Tamal Chakraborty, Iti Saha Misra, Ramjee Prasad

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   Descrizione fisica   1 online resource (XXXVI, 239 p. 140 illus., 89 illus. in color.)

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   Disciplina   621.385

   Soggetti   Electrical engineering
                        Computer organization
                        Computers
                        Wireless communication systems
                        Mobile communication systems
                        Communications Engineering, Networks
                        Computer Systems Organization and Communication Networks
                        Information Systems and Communication Service
                        Wireless and Mobile Communication

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di bibliografia   Includes bibliographical references.

   Nota di contenuto   Overview of VoIP Technology -- VoIP Protocol Fundamentals -- Quality of Service Management - Design Issues -- VoIP Over Wireless LANs - Prospects and Challenges -- Technique For Improving VoIP Performance Over Wireless LANs -- Optimizing VoIP in WLANs Using State-Space Search -- Optimization of Codec Parameters To Reduce Packet Loss Over WLAN -- QOS Enhancement using an adaptive jitter buffer algorithm with variable window size -- Adaptive Packetization Algorithm to support VoIP over Congested WLANS -- VoIP over Emerging Networks: Case Study with Cognitive Radio Networks.

   Sommario/riassunto   This book offers an accessible introduction and practical guide to Voice over Internet Protocol (VoIP) technology, providing readers with the know-how to solve the problems encountered in applying VoIP technology across all types of network. It incorporates the latest research findings and brings readers up to date with the challenges

that are faced by researchers developing novel applications of VoIP. The authors discuss the general architecture of VoIP technology, along with its application and relevance in conventional and emerging wireless communication networks, including Wireless Local Area Networks (WLANs), Worldwide Interoperability for Microwave Access (WiMAX), Long Term Evolution (LTE) and Cognitive Radio Networks. The book also includes Quality of service (QoS) studies under dynamic and unpredictable network conditions, which examine the reliability of both legacy systems And the upcoming pervasive computing systems. Further, it explains how the heuristic-based learning algorithms that are used in VoIP communications may help develop today's technology in the area of autonomous systems. This book is a valuable source of information for academics and researchers, as it provides state-of-theart research in VoIP technology. It is also of interest to network designers, application architects, and service providers looking for a coherent understanding of VoIP across a wide range of devices, network applications and user categories.