



Guide to Voice and Video over IP: For Fixed and Mobile Networks (Computer Communications and Networks)

By Lingfen Sun, Is-Haka Mkwawa, Emmanuel Jammeh, Emmanuel Ifeachor



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This book presents a review of the latest advances in speech and video compression, computer networking protocols, the assessment and monitoring of VoIP quality, and next generation network architectures for multimedia services. The book also concludes with three case studies, each presenting easy-to-follow step-by-step instructions together with challenging hands-on exercises. Features: provides illustrative worked examples and end-of-chapter problems; examines speech and video compression techniques, together with speech and video compression standards; describes the media transport protocols RTP and RTCP, as well as the VoIP signalling protocols SIP and SDP; discusses the concepts of VoIP quality of service and quality of experience; reviews next-generation networks based on the IP multimedia subsystem and mobile VoIP; presents case studies on building a VoIP system based on Asterisk, setting up a mobile VoIP system based on Open IMS and Android mobile, and analysing VoIP protocols and quality.

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Editorial Review

Review

From the reviews:

“This book guides readers through the technologies and applications of voice and video over Internet protocol (VoIP). It is a comprehensive work based on the teaching and research experiences of the authors, and an excellent resource for understanding and practicing key techniques and tools for VoIP. ... This book could serve as a textbook for students or a reference for practitioners.” (Hari Vishwakarma, Computing Reviews, July, 2013)

From the Back Cover

Since the release of the first internet phone in 1995, the use of voice over internet protocol (VoIP) has grown exponentially, so that today it is an established and popular technology for real-time communications in both business and daily life.

This *Guide to Voice and Video over IP* introduces the fundamental techniques underpinning the huge success and global penetration of VoIP. After highlighting the benefits and growing importance of VoIP, the text presents a review of the latest advances in speech and video compression, computer networking protocols, the assessment and monitoring of VoIP quality, and next generation network architectures for multimedia services. Numerous practical examples, complete with real trace data, illustrate and explain the concepts. The book also concludes with three case studies, each presenting easy-to-follow step-by-step instructions together with challenging hands-on exercises.

Topics and features:

- Provides illustrative worked examples and end-of-chapter problems, enabling readers to check their understanding and stretch their knowledge
- Examines speech and video compression techniques, together with speech and video compression standards
- Describes the media transport protocols RTP and RTCP, as well as the VoIP signalling protocols SIP and SDP
- Discusses the concepts of VoIP quality of service and quality of experience
- Reviews next-generation networks based on the IP multimedia subsystem and mobile VoIP
- Presents case studies on building a VoIP system based on Asterisk, setting up a mobile VoIP system based on Open IMS and Android mobile, and analysing VoIP protocols and quality

This teaching lab and classroom-tested textbook/guide is ideal for final-year undergraduate and first-year postgraduate courses in computer science and electronic engineering. Engineers in industry, and others with a general interest in VoIP, will also find this an invaluable practical reference.

Dr. Lingfen Sun is Associate Professor (Reader) in Multimedia Communications and Networks at the School of Computing and Mathematics, University of Plymouth, UK. **Dr. Emmanuel C. Ifeachor** is Professor of Intelligent Electronic Systems and Head of the Signal Processing and Multimedia

Communication research group at the University of Plymouth. **Dr. Is-Haka Mkwawa** and **Dr. Emmanuel Jammeh** are Research Fellows at the same institution.

Users Review

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Lonnie Fazio:

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