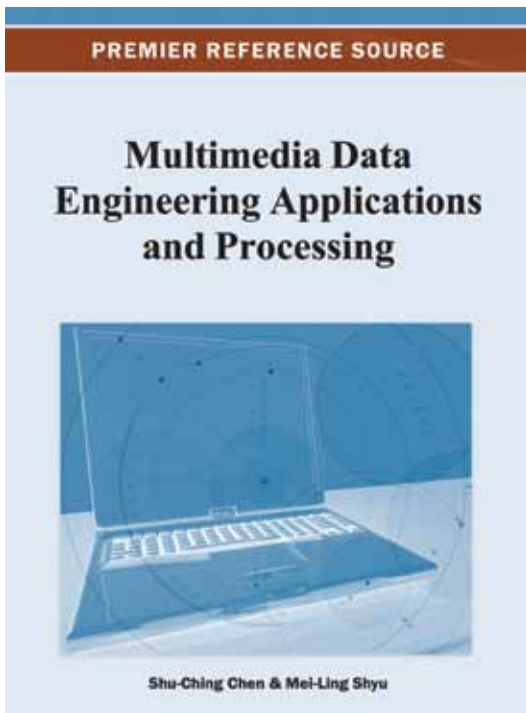


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Multimedia Data Engineering Applications and Processing

Shu-Ching Chen (Florida International University, USA) and Mei-Ling Shyu (University of Miami, USA)

With a variety of media types, multimedia data engineering has emerged as a new opportunity to create techniques and tools that empower the development of the next generation of multimedia databases and information systems.

Multimedia Data Engineering Applications and Processing presents different aspects of multimedia data engineering and management research. This collection of recent theories, technologies, and algorithms brings together a detailed understanding of multimedia engineering and its applications. This reference source will be of essential use for researchers, scientists, professionals, and software engineers in the field of multimedia.

Topics Covered:

- Content-Based Retrieval
- Multimedia Date Management
- Multimodal Information Integration
- Network Support for Multimedia Data
- Relevance Feedback
- Security Support
- Technologies and Applications

ISBN: 9781466629400; © 2013; 328 pp.

Print: US \$190.00 | Perpetual: US \$285.00 | Print + Perpetual: US \$380.00

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Shu-Ching Chen is a Full Professor in the School of Computing and Information Sciences (SCIS), Florida International University (FIU), Miami since August 2009. Prior to that, he was an Assistant/Associate Professor in SCIS at FIU from 1999 to 2009. He received a Master's degrees in Computer Science, Electrical Engineering, and Civil Engineering in 1992, 1995, and 1996, respectively, and a Ph.D. degree in Electrical and Computer Engineering in 1998, from Purdue University, West Lafayette, IN, USA. He is the Director of Distributed Multimedia Information Systems Laboratory and Associate Director of The Center for Advanced Distributed System Engineering at SCIS. His main research interests include content-based image/video retrieval, distributed multimedia database management systems, multimedia data mining, multimedia systems, and Disaster Information Management. Dr. Chen has authored and coauthored more than 240 research papers in journals, refereed conference/symposium/workshop proceedings, book chapters, and one book. Dr. Chen received the best paper award from 2006 IEEE International Symposium on Multimedia. He was awarded the IEEE Systems, Man, and Cybernetics (SMC) Society's Outstanding Contribution Award in 2005, and was the co-recipient of the IEEE Most Active SMC Technical Committee Award in 2006. He was also awarded the Inaugural Excellence in Graduate Mentorship Award from FIU in 2006, the University Outstanding Faculty Research Award from FIU in 2004, the Excellence in Mentorship Award from SCIS in 2010, the Outstanding Faculty Service Award from SCIS in 2004, and the Outstanding Faculty Research Award from SCIS in 2002. He has been a General Chair and Program Chair for more than 35 conferences, symposiums, and workshops. He is the founding Editor-in-Chief of *International Journal of Multimedia Data Engineering and Management* and Associate Editors/Editorial Board for other 13 journals. He is the Chair of IEEE Computer Society Technical Committee on Multimedia Computing and Co-Chair of IEEE Systems, Man, and Cybernetics Society's Technical Committee on Knowledge Acquisition in Intelligent Systems. Dr. Chen also has been a guest editor for more than ten journal special issues. He is a steering committee member of IEEE Transactions on Multimedia. He also serves/served as a member of technical program committee for more than 200 professional meetings. He is a fellow of SIRI



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