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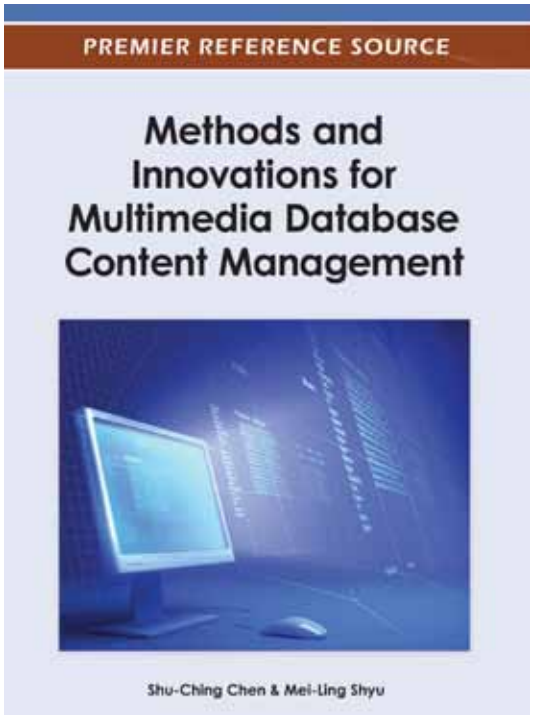

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Methods and Innovations for Multimedia Database Content Management

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Multimedia and its rich semantics are profligate in today's digital environment. Databases and content management systems serve as essential tools to ensure that the endless supply of multimedia content are indexed and remain accessible to end users.

Methods and Innovations for Multimedia Database Content Management highlights original research on new theories, algorithms, technologies, system design, and implementation in multimedia data engineering and management with an emphasis on automatic indexing, tagging, high-order ranking, and rule mining. This book is an ideal resource for university researchers, scientists, industry professionals, software engineers and graduate students.

Topics Covered:

- Multimedia Databases and Data Management
- Video Semantic Detection
- Feedback-based Retrieval Frameworks
- Automatic Indexing
- Image Classification
- High-Order Ranking and Topic Discovery
- Multimedia Tagging
- Robust Duplicate Detection
- Mobile Learning Environments
- Distance Learning

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal forclassroom use.

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. He received Master's degrees in Computer Science, Electrical Engineering, and Civil Engineering in 1992, 1995, and 1996, respectively, and the Ph.D. degree in Electrical and Computer Engineering in 1998, all 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.