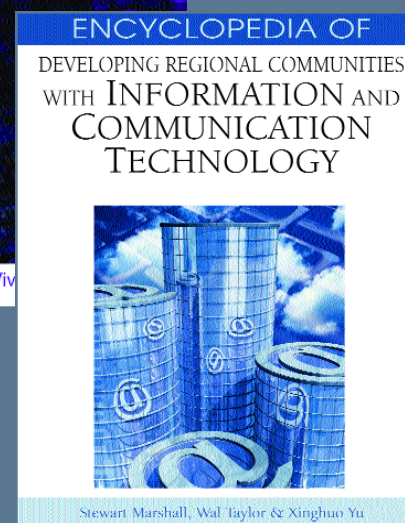
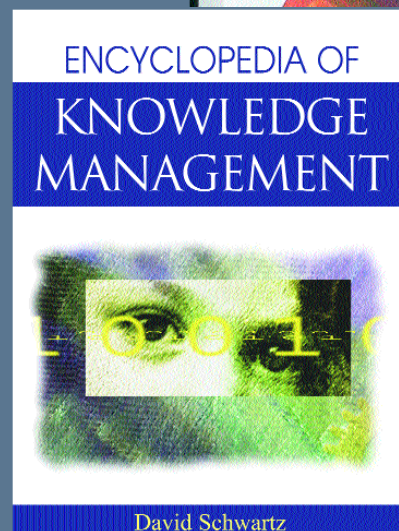
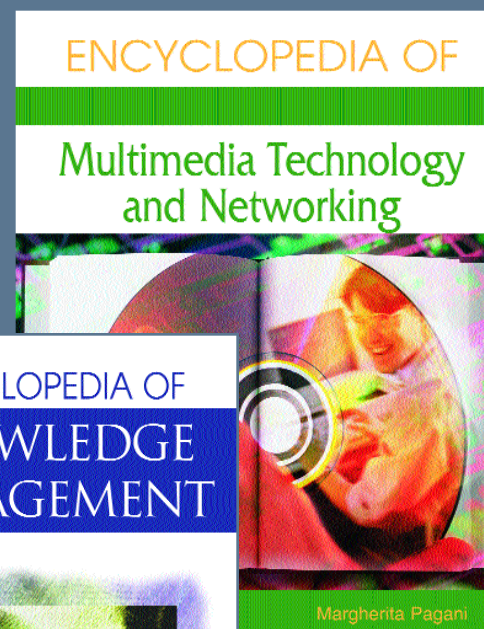


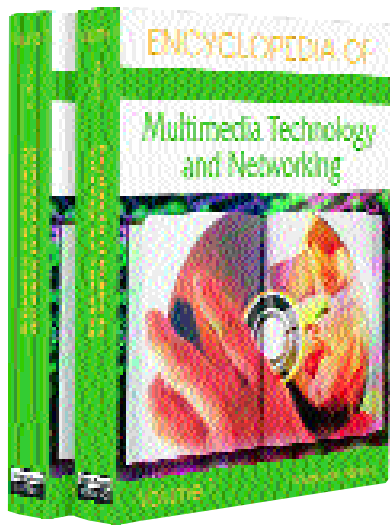
AUTHORITATIVE • INNOVATIVE • COMPREHENSIVE

NEW ENCYCLOPEDIAS FROM IDEA GROUP REFERENCE



**Idea Group
REFERENCE**

THE PREMIER REFERENCE SOURCE FOR INFORMATION SCIENCE AND TECHNOLOGY RESEARCH



ENCYCLOPEDIA OF Multimedia Technology and Networking (2 volumes)

Margherita Pagani
Bocconi University, Italy

Multimedia technology, networks and online interactive multimedia services are taking advantage of a series of radical innovations in converging fields, such as the digitization of signals, satellite and fiber optic based transmission systems, algorithms for signal compression and control, switching and storage devices, and others whose combination has a supra-additive synergistic effect. In such an ever-evolving environment, teachers, researchers and professionals of the discipline need access to the most current information about the concepts, issues, trends and technologies in this emerging field.

The **Encyclopedia of Multimedia Technology and Networks** provides in-depth coverage of the most important concepts, issues, trends and technologies in the multimedia discipline. This 2-volume set is a valuable collection of articles that presents perspectives from over 220 researchers from 32 countries, providing a thorough explanation of emerging multimedia technologies and applications. This contemporary encyclopedia offers, in detail, an understanding of many topics related to multimedia evolution, design, communications, e-commerce, education, security, and virtual communities. In addition, it offers over 1,350 terms and definitions and more than 3,200 references, making it a valuable reference source for all libraries.

Key Features

- Numerous contributions providing coverage of the most important issues, concepts, trends and technologies in multimedia technology each written by scholars throughout the world with notable research portfolios and expertise
- A compendium of over 1,350 terms, definitions and explanations of concepts, processes and acronyms written by eminent internal experts
- More than 3,200 comprehensive references on existing literature and research on multimedia technologies and networks
- Organized by titles and indexed by authors and topics, making it a convenient method of reference for readers
- Cross-referencing of key terms, figures and information related to multimedia technologies and applications

Topics Covered

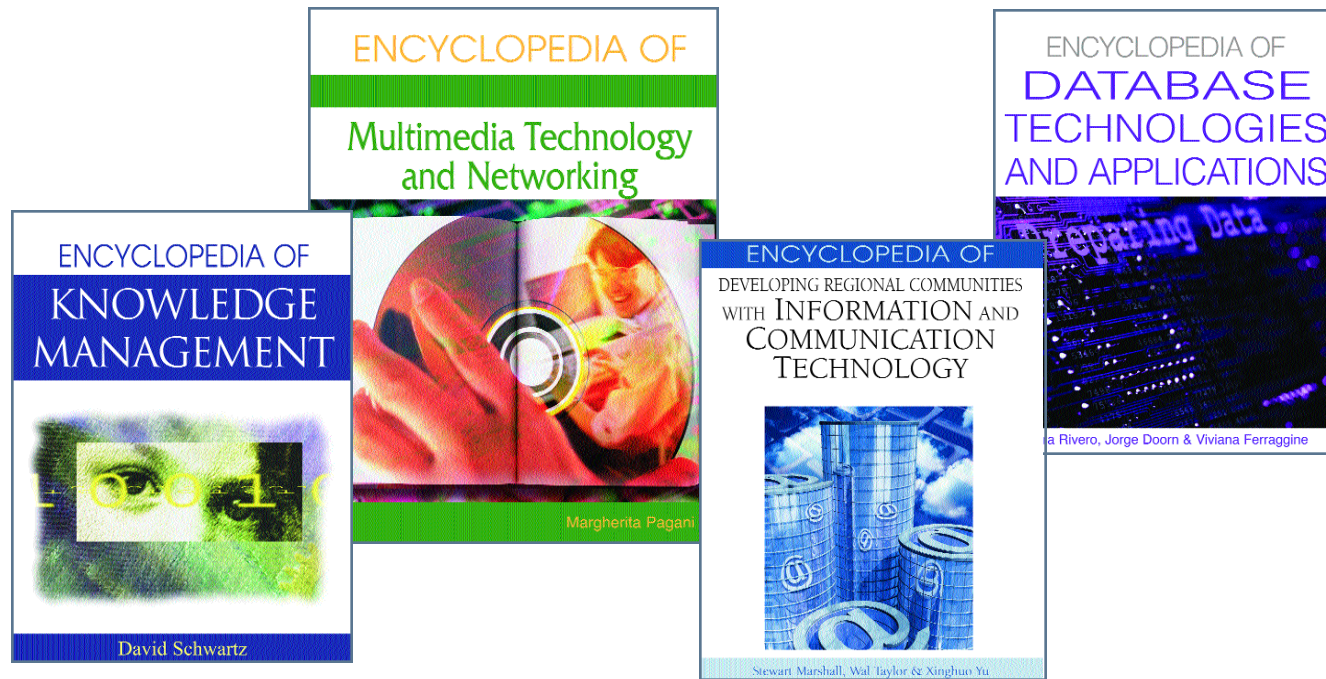
- Advanced broadband infrastructures and applications
- Broadband solution for the last mile to the residential customers
- Copper solutions
- Distance education technologies
- Electronic commerce technologies management
- End user computing
- From circuit switched to IP-based networks
- Information security management
- Information systems in small firms
- IT and virtual communities
- Multimedia digital television
- Multimedia information management
- Multimedia interactive digital television
- Mobile computing and commerce
- Network evolution
- Network optimization
- Open source technologies and systems
- Psychology of multimedia technologies
- Telecommunications and networking technologies

Free online access for libraries for life of the edition with purchase of print copy, a value of \$396

CONTRIBUTORS

A. Lee Gilbert Nanyang Business School	Chris Tan University of South Australia	Ioannis P. Chochliouros Hellenic Telecommunications Organization	Kokou Yetongnon University of Bourgogne	Michael Gibbert Bocconi University	Rui C. Cardoso University of Beira Interior
A. Nur Zincir-Heywood Dalhousie University	Chris Joslin University of Geneva	Isola Aijferuke University of Western Ontario	Kuanchin Chen Western Michigan University	Michael Lang National University of Ireland, Galway	Rui G. Pereira University of Beira Interior
A.K. Kaushik Electronics Niketan	Chris Madsen Brigham Young University	J. Antonio Portilla University of Cantabria	L. E. Moser University of California	Michael O'Dea University of Hull	Sean Wilson Brigham Young University
Aaron Moyes Brigham Young University	Christian Kaspar Georg-August-University of Goettingen	Jackson Stephens Brigham Young University	Lalita Rajasingham Victoria University of Wellington	Michael Minako O'Hagan Dublin City University	Shafiq A. Mohd Yusof Syracuse University
Abhijit Roy Loyola College	Christophe Nicolle Université de Bourgogne	Jairo A. Gutiérrez The University of Auckland	Larbi Esmahli Athabasca University	Mohamed Ally Athabasca University	Shakil Akhtar UAE University
Abtar Kaur Open University of Malaysia	Christophe Cruz Université de Bourgogne	James O. Danenberg Western Michigan University	Laura Anna Ripamonti Università Statale Milano	Mohammad M. Nur Minnesota State University	Shashidhar Panjala Gannon University
Akio Koyama Yamagata University	Christos Schizas University of Cyprus	Janusz Swierzowicz Technical University of Rzeszow	Lech J. Janczewski The University of Auckland	Mouna Kacimi University of Bourgogne	Shawren Singh University of South Africa
Akshay Grover Brigham Young University	Chung-wei Lee Auburn University	Jaya Shankar P. Institute for Infocomm Research, A*STAR	Lek Heng Ngho Institute for Infocomm Research, A*STAR	Nadia Magnenat-Thalmann University of Geneva	Sheng-Wei Guan National University of Singapore
Albert A. Angehrn Insead Center for Advanced Learning Technologies	Craig Standing Edith Cowan University	Jeanne Chen Hunghuang University	Leo Tan Wee Hin Singapore National Academy of Science	Neil C. Rowe U.S. Naval Postgraduate School	Shuvro Chakraborty Minnesota State University
Alcina Prata Higher School of Management Sciences ESCE	Darren P. Mundy Hull University	Jean-Philippe P. Labruyere DePaul University	Leonard Barolli Fukuoka Institute of Technology	Nelly Todorova University of Canterbury	Spiros Louvros COSMOTE S.A.
Alessandro Arbore Bocconi University	Dean Mohamedally City University London	Jeff Larkin Brigham Young University	Linda Knight DePaul University	Nishikant Sonwalkar MIT	Stacey L. Connaughton Rutgers University
Alexander Markus University of Western Ontario	Dellas Fabien University of Geneva	Jerald Hughes Baruch College of the City University of New York	Loren Marie Butcher-Powell Bloomsburg University of Pennsylvania	Nobuyoshi Terashima Waseda University	Stavros A. Kotsopoulos University of Patras
Ali R. Hurson The Pennsylvania State University	Diana J. Wong-Mingli Eastern Michigan University	Jeremy Dunning Indiana University	Louis K. Falk Youngstown State University	Norhayati Zakaria Syracuse University	Stefano Pace Università Commerciale Luigi Bocconi
Anastasia S. Spiliopoulou-Chochliouros Hellenic Telecommunications Organization S.A. (OTE)	Dilvan de Abreu Moreira University of São Paulo	Jeremy C. Cannel Gannon University	Luigi Proserpio Bocconi University	Oleksandr Otenko University of Salford	Stewart T. Fleming University of Otago
Anastasios Kourtis Institute of Informatics and Telecommunications NCSR	Dimitrios Karaboulas University of Patras	Jill Stepherd Simon Fraser University at Harbour Centre	Luis García Carlos III Technical University of Madrid	Omar El-Gayar Dakota State University	Subhankar Dhar San Jose State University
Anastasio Sofokleous Brunel University	Drakoulis Martakos University of Athens	Joanna Lumsden National Research Council of Canada IIT e-Business	Luis A. Esteban Carlos III Technical University of Madrid	P. Gupta Indian Institute of Technology Kanpur	Sunand Bhattacharya ITT Educational Services Inc.
Andjelka Kelic MIT Massachusetts Institute of Technology	Elaine Quintino da Silva University of São Paulo	Joanne Chia Yi Lin The University of New South Wales	Mahbubur R. Syed Minnesota State University	P. M. Melliar-Smith University of California	Svenja Hagenhoff Georg-August-University of Goettingen
Andrea Cavallaro Queen Mary, University of London	Eric TT Wong The Hong Kong Polytechnic University	Joel J. P. C. Rodrigues University of Beira Interior	Maresh S. Raisinghani University of Dallas	P.K. Raju Auburn University	Tanko Ishaya The University of Hull, Scarborough Campus
Anna Szabados Mission College	Erik Benrud American University	John Tiffin Victoria University of Wellington	Maja Pantic Delft University of Technology	Panagiotis Kanellis National and Kapodistrian University of Athens	Teodora Erika Uberti Università Cattolica di Milano
Annette M. Mills University of Canterbury	Evangelia Baralou University of Strathclyde	Jo-Mae B. Maris Northern Arizona University	Malcolm I. Heywood Dalhousie University	Panayiotis Zaphiris City University London	Theekshana Suraweera University of Canterbury
Ansary Ahmed Open University of Malaysia	Feng Yu Pai Shih-Chien University	Jonathan M. Auld NovAtel Inc.	Marc Neveu Université de Bourgogne	Pascal Lorenz University of Haute Alsace, IUT	Theresa M. Vitolo Gannon University
Antonio de Amescua Carlos III Technical University of Madrid	Fiona Fui-Hoon Nah University of Nebraska Lincoln	Jonny Karlsson Arcada Polytechnic	Marcus Liehr University of Hohenheim	Patricia McManus Edith Cowan University	Thomas Di Giacomo University of Geneva
Armando Cirrincione State University, Milan	Gábor Hosszú Budapest University of Technology and Economics	José Ruela INESC Porto	Margherita Pagani Bocconi University	Paul B. Cragg University of Canterbury	Tiong-Thye Goh Victoria University Wellington
Assion Lawson-Body University of North Dakota	George Kontolemakis National and Kapodistrian University of Athens	Mari W. Buche Michigan Technological University	Mari Ruy-Yuan Lee Shih-Chien University	Paul Benjamin Lowry Brigham Young University	Tom S. Chan Southern New Hampshire University
Athanasios C. Iossifides COSMOTE S.A.	George K. Lalopoulos Hellenic Telecommunications Organization S.A. (OTE)	Maria Isabel Sánchez-Segura Carlos III Technical University of Madrid	Pauline Ratnasingham Central Missouri State University	Paula P. Monteiro SIEMENS - Information and Communication	Tung-Shou Chen National Tsinghua Institute of Technology
Bardo Fraunholz Deakin University	Geraldine Torrisi-Steele Griffith University Gold Coast Campus	Mariana Hentea University of Całumet	Percy Kwok Chinese University of Hong Kong	Peter Murphy Victoria University of Wellington	Tzizporah Stern City University of New York
Bernardino Provera Bocconi University	Glenda Rotvold University of North Dakota	Mario A. Maggioni Università Cattolica di Milano	Peter Murphy Victoria University of Wellington	Phillip Olla Brunel University	Victor Portougal The University of Auckland
Bo Yang The Pennsylvania State University	Kaj, J. Grah Arcada Polytechnic	Mário M. Freire University of Beira Interior	Pin-Hsin Wang National Tsinghua Institute of Technology	Qing Li City University of Hong Kong	Victor Mbarika Louisiana State University
Brian Still Texas Tech University	Kamel Karoui Institut National des Sciences Appliquées de Tunis	Marios C. Angelides Brunel University	Reimier Zwitserloot Delft University of Technology	R. Subramaniam Singapore National Academy of Science	Vilas D. Nandavadekar University of Pune
Calin Gurau Centre d'Études et de Recherche sur les Organisations et le Management (CEROM)	Kanchana Tandekar Dakota State University	Mark Mitchell Brigham Young University	Richard Chbeir University of Bourgogne	Rana Tassabehji University of Bradford	Vincenzo Morabito Bocconi University
Carlos Díaz University of Cantabria	Karl Reiner Lang Baruch College of the City University of New York	Markus Voeth University of Hohenheim	Richard Chbeir University of Bourgogne	Randy V. Bradley Auburn University	Waleed E. Farag Zagazig University
Carol Wright Pennsylvania State University	Keh-Jian Ma National Tsinghua Institute of Technology	Marlyn Kemper Littman Nova Southeastern University	Richard Chbeir University of Bourgogne	Reimier Zwitserloot Delft University of Technology	Wayne Ting The University of Auckland
Carrison KS Tong Tseung Kwan O Hospital	Khaled Shuaib United Arab Emirates University	Marshall Scott Poole United Arab Emirates University	Robert J. Bignall Monash University	Reimier Zwitserloot Delft University of Technology	Weidong Kou Xidian University
Chandana Unnithan Deakin University	Kinshuk Massey University	Massimo Magni Bocconi University	Richard Chbeir University of Bourgogne	Reimier Zwitserloot Delft University of Technology	Wen-Chen Hu University of North Dakota
Chang-Tsun Li University of Warwick	Kirk St.Amant Texas Tech University	Mayank Vatsa Indian Institute of Technology Kanpur	Richard Chbeir University of Bourgogne	Reimier Zwitserloot Delft University of Technology	William Robins Brigham Young University
Chelley Vician Michigan Technological University	Kirk W. Duthler The University of North Carolina at Charlotte	Melha Handzic The University of New South Wales	Richard Chbeir University of Bourgogne	Reimier Zwitserloot Delft University of Technology	Xin Luo Mississippi State University
Chetan S. Sankar Auburn University	Klaus D. Hackbarth University of Cantabria	Meng-Wen Cheng National Tsinghua Institute of Technology	Richard Chbeir University of Bourgogne	Reimier Zwitserloot Delft University of Technology	Yuan Gao Ramapo College of New Jersey
Chia-Hung Wei University of Warwick	Hy Sockel Youngstown State University	Merril Warkentin Mississippi State University	Richard Chbeir University of Bourgogne	Reimier Zwitserloot Delft University of Technology	Yueting Zhuang City University of Hong Kong
	Ina Freeman University of Birmingham		Robert J. Bignall Monash University	Reimier Zwitserloot Delft University of Technology	Zbigniew Hulicki AGH University of Science and Technology

Call toll free 1-866-342-6657 x 10 or Fax: 717-533-8661 or visit the IGR online bookstore at www.idea-group-ref.com



WORLDWIDE DISTRIBUTORS

IDEA GROUP REFERENCE
www.idea-group-ref.com

AMAZON.COM
www.amazon.com

BAKER & TAYLOR BOOKS
www.btol.com

BARNES & NOBLE
www.bn.com

BLACKWELL'S BOOK SERVICES
www.blackwell.com

COUTTS LIBRARY SERVICES
www.couttsinfo.com

CRANBURY INTERNATIONAL, LLC
www.cranburyinternational.com

DA INFORMATION SERVICES PTY. LTD.
www.dadirect.com.au

INGRAM LIBRARY SERVICES, INC.
www.ingrambook.com

NETLIBRARY
www.netlibrary.com

TAYLOR & FRANCIS
www.tandf.co.uk

THE EUROSPAN GROUP
www.eurospanonline.com

YBP LIBRARY SERVICES
www.ybp.com

EBOOKS.COM
www.ebooks.com

www.idea-group-ref.com

Please forward this brochure to your colleagues

Idea Group REFERENCE

The premier reference source for information science and technology research

701 East Chocolate Ave., Suite 200 • Hershey, PA 17033-1240, USA

PRSR STD
USPOSTAGE
PAID
Harrisburg, PA
PERMITNO 923