Prof. George Tsihrintzis  
Department of Informatics  
University of Piraeus  
80, Karaoli & Dimitriou St.  
Piraeus 18534  
Greece  
E-mail: geoatsi@unipi.gr

Prof. Maria Virvou  
Department of Informatics  
University of Piraeus  
80, Karaoli & Dimitriou St.  
Piraeus 18534  
Greece  
E-mail: mvirvou@unipi.gr

Prof. Robert Howlett  
University of Brighton  
School of Engineering Research Centre  
Moulsecoomb, Brighton, BN2 4GJ  
UK  
E-mail: rjhowlett@kesinternational.org

Prof. Lakhmi C. Jain  
KES Centre  
School of Electrical and Information Engineering, University of South Australia  
Adelaide, Mawson Lakes Campus  
South Australia SA 5095  
Australia  
E-mail: Lakhmi.jain@unisa.edu.au

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Preface to: New Directions in Intelligent Interactive Multimedia

George A. Tsihrintzis\textsuperscript{1}, Maria Virvou\textsuperscript{1}, Robert J. Howlett\textsuperscript{2}, and Lakhmi C. Jain\textsuperscript{3}

\textsuperscript{1} Department of Informatics
University of Piraeus
\textsuperscript{2} Center for Smart Systems
University of Brighton
\textsuperscript{3} School of Electrical & Information Engineering
University of South Australia

\textit{Multimedia systems} is the term chosen to refer to the coordinated and secure storage, processing, transmission and retrieval of multiple forms of information, such as audio, image, video, animation, graphics, and text. During the last decade, multimedia systems has become a vibrant field of research and development worldwide. As a result, multimedia services based on multimedia systems have made significant progress in recent times. Multimedia systems and services have been developed to address needs in various areas including, but not limited to, advertisement, art, business, education, entertainment, engineering, medicine, mathematics, scientific research and spatio-temporal applications. The growth rate of multimedia services has become explosive, as technological progress only attempts to match consumers for content.

In our times, computers are more widespread than ever and computer users range from highly qualified scientists to non-computer-expert professionals and may include people with special needs. Thus, \textit{interactivity}, \textit{personalization} and \textit{adaptivity} have become a necessity in modern multimedia systems and services. Modern intelligent multimedia systems need to be interactive not only through classical modes of interaction where the user inputs information through a keyboard or mouse. They must also support other modes of interaction, such as visual or lingual computer-user interfaces, which render them more attractive, user friendlier, more human-like and more informative.

On the other hand, solution in which “one-fits-all” are no longer applicable to wide ranges of users of various backgrounds and needs. Therefore, one important goal of many intelligent multimedia systems is their ability to provide \textit{personalized service} and \textit{adapt dynamically} to their users.

To achieve these goals, \textit{intelligent interactive multimedia systems and services (IIIMSS)} need to evolve at all levels of processing. Specific sub-areas of required further research include:

1. Advances in Multimedia Data Analysis
2. New Reasoning Approaches
3. More efficient Infrastructure for Intelligent Interactive Multimedia Systems and Services
4. Development of innovative Multimedia Application Areas
5. Improvement of the Quality of Interactive Multimedia Services
This book summarizes the works and new research results presented at the First International Symposium on Intelligent Interactive Multimedia Systems and Services (KES-IIMSS 2008), organized by the University of Piraeus and its Department of Informatics in conjunction with KES International (Piraeus, Greece, July 9–11, 2008). The aim of the symposium was to provide an internationally respected forum for scientific research into the technologies and applications of intelligent interactive multimedia systems and services.

Besides the Preface, the book contains sixty four (64) chapters. The first four (4) chapters in the book are printed versions of the keynote addresses of the invited speakers of KES-IIMSS 2008. Besides the invited speaker chapters, the book contains fifteen (15) chapters on recent Advances in Multimedia Data Analysis, eleven (11) chapters on Reasoning Approaches, nine (9) chapters on Infrastructure of Intelligent Interactive Multimedia Systems and Services, fourteen (14) chapters on Multimedia Applications, and eleven (11) chapters on Quality of Interactive Multimedia Services.

More specifically, Chapter 1 by Germano Resconi is on “Morphic Computing.” Chapter 2 by Mike Christel is on “Amplifying Video Information-Seeking Success through Rich, Exploratory Interfaces.” Chapter 3 by Alfred Kobsa is on “Privacy-Enhanced Personalization.” Chapter 4 by Paul Brna is on “Narrative Interactive Multimedia Learning Environments: Achievements and Challenges.”

Chapters 5, 6, 7, and 8 cover various aspects of Image and Video Analysis, while Chapters 9, 10, 11, and 12 are devoted to Fast Methods for Intelligent Image Recognition. Chapters 13, 14, 15, and 16 are devoted to Audio Analysis and Chapters 17, 18, and 19 present new results in Time Series Analysis in Financial Services.

Chapters 20, 21, and 22 present new results in Multimedia Information Clustering and Retrieval, while Chapters 23, 24, and 25 are devoted to Decision Support Services. Additionally, Chapters 26, 27, 28, 29, and 30 are devoted to Reasoning–based Intelligent Information Systems.

Chapters 31, 32, 33, and 34 are devoted to Wireless and Web-based Multimedia and Chapters 35, 36, 37, 38, and 39 present Techniques and Applications for Multimedia Security.

Chapters 40, 41, 42, 43, and 44 are devoted to Tutoring Systems, while Chapters 45, 46, and 47 are devoted to Geographical Multimedia Services. Chapters 48 and 49 present multimedia applications in Interactive TV and Chapters 50, 51, 52, and 53 are devoted to Intelligent and Interactive multimedia in Bioinformatics and Medical Informatics.

Chapters 54, 55, and 56 present new results in Affective Multimedia, while Chapters 57, 58, 59, 60, and 61 present Multimedia Techniques for Ambient Intelligence. Finally, Chapters 62, 63, and 64 are devoted to approaches for Evaluation of Multimedia Services.

We wish to express our gratitude to the authors of the various chapters and reviewers for their wonderful contributions. For their help with organizational issues of KES-IIMSS 2008, we express our thanks to Ms. Paraskevi Lampropoulou, Ms. Lina Stamati, Mr. Efthimios Alepis and Mr. Konstantinos Patsakis, doctoral students at the
University of Piraeus, and Mr. Peter Cushion of KES International. Thanks are due to Springer-Verlag for their editorial support. We would also like to express our sincere thanks to Mr. Thomas Ditzinger for his wonderful editorial support.

We believe that this book would help in creating interest among researchers and practitioners towards realizing human-like interactive multimedia services. This book would prove useful to the researchers, professors, research students and practitioners as it reports novel research work on challenging topics in the area of intelligent interactive multimedia systems and services. Moreover, special emphasis has been put on highlighting issues concerning the development process of such complex systems and services, thus revisiting the difficult issue of knowledge engineering of such systems. In this way, the book aims at providing the readers with a better understanding of how intelligent interactive multimedia systems and services can be successfully implemented to incorporate recent trends and advances in theory and applications of intelligent systems.

George A. Tsihrintzis
Maria Virvou
Robert J. Howlett
Lakhmi C. Jain
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