About the Contributors

Zhongyu (Joan) Lu is Professor in the Department of Informatics at the University of Huddersfield (UK). Her extensive research covers information access, retrieval and visualization, XML technology, object oriented technologies, agent technology, data management system, security issues and Internet computing. Specifically for these areas, she has been an invited speaker for industrial-oriented events and published two books and more than 140 papers. Professor Lu has acted as the founder and a program chair for the International XML Technology workshop and XMLTech (USA) for 11 years (2003-2011). She also serves as 5 international conference chairs, is a regular paper reviewer for international journals and a committee member for fourteen international conferences in her subject area. Professor Lu is involved in both internal and external research projects. Her EU projects are Edumecca, DO-IT and DONE-IT, collaborating with partners from 5 EU countries. She is specializing in XML technology and mobile computing with image retrieval through the latest wireless devices. Professor Lu serves as a member of the British Computer Society (BCS), BCS examiner of Advanced Database Management Systems and fellow of the Higher Education Academy (UK).

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Priya A pursued a Ph.D. in the School of Computing & Engineering at Huddersfield University. She always fancied herself with Computers right from childhood days. Her long and enjoyable interaction with computer science goes back one and a half decades, to the moment when she first learned to program. A career in Computers seemed the most challenging and logical extension of her abilities. The extraordinary developments in this field, both in the hardware and software, have further stimulated interest and have encouraged her to choose Computer Science as the main field of university study. In the final year of undergraduate study in Computer Applications, she did a graduate study to refine her knowledge and skills in areas of interest. It served to give direction to a goal of a career as a research professional at an academic or commercial, research-oriented organization. She completed her Master’s degree in Computer Applications from one of the best educational institutions from South India (Madras). Her current research revolves around the concept of mobile exam systems for university students to attend exams on their handheld devices and send their feedback immediately to teacher or staff involved. Her main ambition is to utilize research skills and knowledge to bring the welfare to society and to her country. She would like to wrestle with real-world problems in this field and transfer the result of researches to industry. Her educational background, ability to apply and translate relevant concepts to diverse settings, personal interests, passion and motivation for further study and research all support her decision and drives to believe that she will be successful both as a Ph.D. student and later as a researcher in an academic milieu.
Baydaa Al-Hamadani is a PhD holder in Computer Science. She has got her last degree from the University of Huddersfield, UK at 2011 in Retrieving Information from Compressed XML Documents. Before that she was a lecturer in Philadelphia University, Jordan for 5 years upon finishing her second degree (MSc) in Computer Science from the University of Technology, Iraq. She has got her first (Bachelor) degree from the same University and in the same field. Now she is an assistant professor in Zarqa University in Jordan.

Rene Alimisi has a rich engineering background and thorough knowledge of the field of Information Communication Technology in Education with more than 2 years experience within the area of Lifelong Learning European Projects and with training experience in well known Greek Institutions (University of Thessaly, ASPETE and IDEKE). Rene holds a diploma in Computer Engineering and a MA in ICT in Education with modules involving Research Methods and Development in ICT in Education, Computer Mediated communication, Key issues in ICT in Education, Instructional designing, Digital video production, User Experience Research and Evaluation of technological interventions.

Mohamed Alseddiqi graduated with a degree in Electronic Engineering with distinction from Glasgow Caledonian University in 2001, followed by a M.Sc. in Engineering Management from The University of Sunderland in 2005. He has worked as a Quality Consultant at The Quality and Productivity Centre from 2006-2008. During this period, he has completed number of projects in developing quality management systems for various organisations in Bahrain and gained a Professional Development Award in Quality from The Scottish Qualification Authority, Scotland. Furthermore, he has worked as a specialist in Technical and Vocational Education Directorate in Bahrain for about six years which included him being the project adviser for the Technical and Vocational Education Development Project. Currently Mohamed Alseddiqi is a full time PhD student in the field of performance improvement in Engineering Education at the University of Huddersfield.

Taimoor Asim graduated with a degree in Mechanical Engineering from NUST (Pakistan) in 2007, followed by a M.Sc. in Automotive Engineering from University of Huddersfield with distinction in 2008. Afterwards he joined the University of Lahore as a lecturer in the Department of Technology where he worked for two years. During this period, he has completed number of projects in the development of course structure and curriculum. He headed the industrial training and placement bureau from 2009-2010. He was the group leader for the development of engineering laboratories at the University of Lahore. Currently Taimoor Asim is a full time Ph.D. student in the field of Computational Fluid Dynamics at the University of Huddersfield.

Martin Charlesworth teaches Physics and ICT at the University of Huddersfield. He has developed and leads training courses on a wide range of educational technology and has completed extensive research on the use of Classroom Response Systems. He has worked with publishers developing multimedia and blended learning and his current research is focusing on using classroom response systems for marking and assessment.
**About the Contributors**

**Isabel de la Torre Díez** was born in Zamora, Spain, in 1979. She received her M.S. and Ph.D. degrees in telecommunication engineering from the University of Valladolid, Spain, in 2003 and 2010, respectively. Currently, she is an assistant professor in the Department of Signal Theory and Communications at the University of Valladolid. Her teaching and research interests include development of Telemedicine applications, EHRs (Electronic Health Records), EHR standards, biosensors, e-learning and e-commerce applications.

**Wei Guo** is a postgraduate of Software School in Yunnan University (P.R. China). Guo’s research mainly focuses on Distributed Computing (Cloud Computing). Talking about the time when Guo was studying in Yunnan University, he used to be a part-time computer programmer. Guo has programmed some projects and been the key computer programmer. In terms of research, he has published six papers during the same time and he is the first author of two of them. One of the two papers he has written as the first author, has been accepted by IEEE, indexed by EI and included in the IEEE Xplore database.

**Gabrielle Hansen-Nygård** has a Master’s degree in social psychology (2008) from The Norwegian University of Sciences and Technology (NTNU), the subject of which was Student Response Systems (SRS). The main focus of the master’s thesis was learning methods, especially how to use such a system in a training setting and students’ experiences and learning outcomes. She was a part of a research team at NTNU who implemented one of the first student response systems in Scandinavia. She has been a research assistant at Sør-Trøndelag University College since August 2009, and has been participating in 5 ongoing European-funded projects. She has during the last 2 years given several presentations about student response systems for modern mobile devices at many international conferences, and published 10 articles on mobile learning. She was in charge of coordinating the use of the system at a large national conference. She has also been responsible for two workshops regarding Mobile Learning; “Mobile Learning for Everybody” at online Educa in Berlin, and “Mobile learning; promote active learning with student response system for modern mobile devices,” at the International Conference on Education & Learning in Mobile Age (CELMA), in Lake District, England. In addition she has been responsible for several training courses in Norway, Sweden, Slovenia, Slovakia and England, where she has been training teachers on how to use modern mobile devices in different training settings and environments. She has participated in the planning and testing of SRS in classrooms, in addition to evaluation and methods development. She has performed several surveys, mainly focus group interviews and questionnaires, and evaluated the testing of the SRS that has been done so far at Sør-Trøndelag University College. She has also contributed to the technical development, but from a learning point of view. The feedback she has received from the students, combined with her background from psychology, has had a big impact on the technical development of the system.

**Olivier Heidmann** is the lead developer of the cMinds project, responsible for designing and creating the virtual experiment demonstrator. He has a Master’s degree in Parallel Computing from the Louis Pasteur University of Strasbourg, France. He also taught computer science, mathematics and management to students ranging from 14 years old to adults for 7 years. Since 2004, he participated in more than a dozen different EC-funded projects, using ICT and web-based solutions to enhance the teaching and learning methodologies and tools. He has published several papers at international conferences over the past 6 years.
Jinyan Li is a postgraduate of Software School in Yunnan University (P.R. China). Li’s research mainly focuses on Distributed Computing (Cloud Computing) and Data Mining in distributed databases. Li is good at programming software and can cope with difficult and complicated issues in the project. During the time when she was a postgraduate, Li participated in many groups to program software and to design software system. As for her research, she has published four papers and she is the first author of two of them. One of the two papers she has written as the first author is indexed by ISTP.

Moldovan Liviu holds a position of professor at “Petru Maior” University of Tirgu-Mures in Romania, teaching currently quality management at license and master degree level. He has funded and developed distance learning programs in Romania since 2001, in the framework of national programs founded by the World Bank, but also in the framework of European founded programs: Leonardo da Vinci and European Economic Area financial mechanism. A very recent program coordinated by him is “Innovative Tools and Models for Vocational Education and Training in Central and Western Romania” (MoVE-IT). He has currently got support from the European Lifelong Learning program to introduce use of state of the art open web-based student response services for iPod and iPhone to students Romania. He has published over 100 articles, 5 books, 14 universitary manuals and has attended at more than 30 international conferences with presentations.

Gehao Lu is associate professor of Software School in Yunnan University (P.R. China) and Ph.D. candidate of University of Huddersfield (UK). Lu’s research mainly focuses on Multi-agent Systems, Service Computing and Distributed Computing (Cloud Computing). Lu is also the team leader of Advanced Network group in Provincial Key Laboratory of Software Engineering in Yunnan.

Zhaozong Meng received his bachelor’s degree in measurement and control technology and instrument in Sichuan University, China, in 2006. And he received his Master’s degree in measurement control information technologies in Beihang University, China, in 2009. He is now a Ph.D. research student in department of informatics, university of Huddersfield, UK. His research interests refer to context aware mobile information retrieval and service provisioning, complex digital circuits, and embedded hardware and software system.

Rakesh Mishra is Reader in Fluid Dynamics at the School of Computing and Engineering of the University of Huddersfield. Dr. Mishra’s main teaching and research area is thermo-fluids which includes aerodynamics, thermodynamics, engine systems and computational fluid dynamics. Dr. Mishra is also an active researcher on pedagogical issues and has a number of publications in the above research areas. Dr. Mishra has supervised a number of PGR students in the above research area and currently a number of PGR students are enrolled with him for research degree. Dr. Mishra has presented papers to a number of conferences and has been invited to give several seminars. Dr. Mishra has also chaired a number of conference sessions dealing with green issues.

Kjetil L. Nielsen received his Master’s degree in theoretical physics in 2008 from the Norwegian University of Science and Technology (NTNU), where he did his thesis on computational calculations of adsorption on surfaces. He started on his PhD at Sør-Trøndelag University College the same year with the focus on the use of multimedia and technology in physics education. During his Ph.D. work he has
developed large amounts of multimedia content for physics lectures, including video and animations. He has also participated in developing a Student Response System (SRS) where he had a central part in testing and evaluating the system as well as performing research about different methodical uses of SRS in physics classrooms.

Raoul Pascal Pein works as Associate Prof. at Sør-Trøndelag University College, Faculty of technology. He received a Ph.D. in computing sciences (2010) from the University of Huddersfield in the UK. He has been working in the field of content-based image retrieval for several years. The aim was to simplify the user interface for retrieving pixel-based images from large repositories. The key methods employed were feature vector extraction, analysis of distinct feature vector characteristics, query languages and decision tree based machine learning. He currently works as software engineer in the development of innovative software solutions for various European R&D projects within the Lifelong Learning sector. The main area is to coordinate the design and implementation of cooperating software modules required in the projects. His research interests include efficient information retrieval, the use of platform independent communication standards as well as mobile computing.

Yousef E. Rabadi received his B.S. degrees in Computer Science and Finance at Yarmouk University - Jordan in 1994. He also received M.S. degree in Computer Information Systems from Concordia University - Canada / Arab Academy for Banking and Financial Sciences in 2003. He later joined the PhD program in Huddersfield University - United Kingdom. His research interests include XML Security, Cloud Computing, XML Architecture and Data Communication Management. He is a founder and a managing director of Global Host Technology Trading, offering state of the art IT Solutions to its clients, which are spread over a variety of industries including Financial Sector, Oil & Gas Industry, Education Sector and various Governmental projects.

Joel J. P. C. Rodrigues (S’01 - M’06 - SM’06), is a Professor in the Department of Informatics of the University of Beira Interior, Covilhã, Portugal, and a Researcher at the Instituto de Telecomunicações, Portugal. He received a five-year B.S. degree (licentiate) in Informatics Engineering from the University of Coimbra, Portugal and the M.Sc. degree and Ph.D. degree in Informatics Engineering from the University of Beira Interior, Portugal. His main research interests include delay-tolerant networks, sensor networks, high-speed networks, e-Learning, e-Health, and mobile and ubiquitous computing. He is the leader of the NetGNA Research Group (http://netgna.it.ubi.pt) and the founder and leader of the IEEE ComSoc CSIM Special Interest Group on modeling and simulation tools (http://mst.it.ubi.pt). He is the Secretary of the IEEE ComSoc Technical Committee on eHealth and the Vice-Chair of the IEEE ComSoc Technical Committee on Communications Software. He has authored or coauthored over 170 technical papers in refereed international journals and conferences, book chapters, a book, and a patent. He is the editor-in-chief of the International Journal on E-Health and Medical Communications and the Recent Patents on telecommunications Journal, and served several Special Issues as a Guest Editor (IEEE Transactions on Multimedia, Elsevier Journal of Network and Computer Applications, IET Communications, Journal of Communications, etc.). He has served as General Chair, Technical Program Committee Chair, and symposium Chair for many international conferences, including IEEE ICC/GLOBECOMs, CAMAD, MAN, ITST, ICNC, SoftCOM, among others. He participated in tens of international TPCs and several editorial review boards (including IEEE Communications Magazine, International Journal
of Communications Systems, etc.). He is a licensed professional engineer (as a senior member), and he is member of ACM SIGCOMM, a member of the Internet Society, an IARIA fellow, and a senior member of the IEEE Computer Society, IEEE Communications Society, and IEEE Education Society.

Zareena Rosli received a Degree in Computer Science in 1997 from Universiti Putra Malaysia (UPM), and Diploma in Education in 2008 from Universiti Tun Hussien Onn (UTHM). I joined Polytechnic Merlimau as a lecturer in Computer and Mathematic fields at the Department of Mathematics, Science and Computer in January 2005. Currently I am pursuing my post graduate studies in Universiti Teknikal Malaysia (UTEM). My area of studies is Interactive Media under supervision of Assoc. Prof Dr. Faaizah Shahbodin. My research interests are primarily on Mathematic Learning, Multimedia Applications, Problem Based Learning and Virtual Reality.

Ahlam F. Sawsaa is a Ph.D. student in Informatics school at Huddersfield University. I chose the topic of my research, developing domain ontologies, as I have a strong interest in the subject which I have demonstrated through my work history. I received the BA and M.Sc. in Library and Information Science from university of Garyounis, Libya, in 1999-2003 respectively. I worked at Garyounis University as a lecturer. There I taught, introduction to library and information science, databases technology, methodology and administration of libraries and information centres. I have published more than 7 papers in different conferences and one book. My research interest is about developing semantic web by using ontologies, information retrieval and mobile learning.

Diogo V. Sousa is working with ROFF in a SAP technology development centre in Covilhã, Portugal. He received the MSc and BSc degrees in Informatics Engineering from the University of Beira Interior, Portugal. His interests include mobile computing, mobile learning, and programming.

John B. Stav received a Ph.D. in theoretical physics (1994) from The Norwegian University for Sciences and Technology (NTNU). He has been Associate Prof. at Sør-Trøndelag University College since 1993, offering numerous distance learning courses within mathematics and natural sciences. He has during the last 6 years published more than 75 international papers targeting pedagogical inclusion of state of the art video, multimedia and simulator service solutions within distance training, skills upgrading processes and blended learning training solutions. Furthermore, he has given more than 40 presentations targeting effective use of video, multimedia and simulator services at international conferences during the last three years. He has during the last 8 years been promotor and coordinator of more than 20 national as well as 10 European founded projects targeting pedagogical inclusion, use and deployment of state of the art video, multimedia and simulator services, including XML/MathML technologies, within continuing engineering education, in-company based training and skills upgrading processes, e-learning, and distance training solutions.

Aswin Sundaram completed a Bachelor of Engineering in Electronics & Communications from Government College of Engineering in India and Master’s in Mobile Computer Systems in the UK and working with UK based companies like txtNation, Boilerhouse, Remploy, National Council for Graduate Entrepreneurship, as the next step along my career path, I applied for Ph.D. in Computer Science in the University of Huddersfield to get involved deeply in research and be prepared for teaching and
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research-based careers. My current research area is very broad with new techniques and applications in field of Mobile Computing. My research aims to build a framework for database model in the mobile based applications that is widely been used by students and the universities across the world. After completing, I would like to go back to home country and utilize my research skills and knowledge to bring the welfare for my society. My undergraduate studies, research projects and personal interests all support my decision and leads me to believe that I will be successful both as a Ph.D. student and later as a researcher in an academic milieu.

Trond Morten Thorseth received a Ph.D. in experimental physics (2000) from The Norwegian University for Sciences and Technology (NTNU). He has been Associate Prof. at Sør-Trøndelag University College since 2002, teaching physics, mathematics and computer sciences. He has always been fond of creating and using digital tools to enhance the learning experience in the classroom, from animations, to web simulations and calculation tools. He has during the last 6 years participated in several EC funded projects targeting pedagogical inclusion of digital tools in the classroom. He has been developing a welding simulator targeting vocational training of welders. He has also been central in developing a student response system targeting classroom response systems.

Hariklia Tsalapatas is a Computer Engineer, graduate from the University of Patras in Greece (1990). She has an M.Sc. Degree in Computer Science from Rice University in Texas (1994), an MBA from London Business School (2005), and is a Ph.D. candidate in Computer Science at the University of Thessaly. She currently works as a Project Manager at the University of Thessaly. Her interests include technology-enhanced learning, digital libraries, and networked applications. She has participated in and / or coordinated 17 projects in the above areas. Recent work includes the Comenius Action projects EnvKids: Environmental Sustainability Training for Children through on-line Simulation, Exploration, and Collaboration and cMinds: Teaching Programming as a Means for Building Analytical and Critical Thinking Skills. Past work assignments include a Software Engineer position at the Foundation for Research and Technology in Heraklion, Greece and a Senior Technical Support Analyst position at Oracle Corporation in San Francisco, California. She has published over 35 articles over the past 10 years.

Lan Wang received her Ph.D. and M.Sc. degree in the Department of Computing at the University of Bradford in 2010 and 2003, respectively; and the B.Sc. degree in Computer Science from the University of Heilongjiang, in 2001. She is currently a postdoctoral research assistant in the Department of Computing at the University of Huddersfield. Her research interests include Performance Modelling/Evaluation, Congestion control, Wireless Networks, Self-Similar Network Traffic.