About the Contributors

Dr. Tiong-T. Goh holds a BSc and an MSc in Electrical Engineering from the Ohio State University, Columbus Ohio, USA, an MBA with distinction from Manchester Business School, UK, and a PhD in Information Systems from Massey University, New Zealand. He has worked in the polytechnics and universities, research laboratory, commercial organisation and defence organisation as research and development engineer and project engineer. He is currently a Lecturer with the school Information Management, at Victoria University, New Zealand. He has published various book chapters and Journals in e-learning. His areas of research interest include multiplatform e-learning systems, database system development, enterprise business intelligence and health informatics.

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Marc Alier (1971) received an engineering degree in computer science and a PhD in Sciences in the Politecnical University of Catalonia. The last 15 years has worked in research and development related to the e-learning industry. He has participated in the development of several LMS and authoring tools, and has been an online teacher. Since 2001, he has taught project management and computing ethics as a lecturer in the Universitat Politecnica de Catalunya (http://www.upc.edu) and other universities such as UOC (http://www.uoc.edu), in computer science studies. He is director of a master’s program in software for organization management. He is the technical advisor and teacher in the Sciences of Education Institute, UPC (http://www.ice.upc.edu) in the implantation of Moodle. Since early 2004, he has been a developer of the http://moodle.org community contributing with third part modules and core functionalities such as the Wiki module and the Webservices layer. Alier is the representant of Moodle in the IMS Common Cartridge discussion forum, and is a collaborator of the Open Knowledge initiative.

Jaime Muñoz Arteaga, is Professor in Computer Science at Universidad Autónoma de Aguascalientes.. Universidad Autónoma de Aguascalientes. He is a researcher in Human-Computer Interaction, and web technologies. He holds a PhD in Computer Science, Human-Computer Interaction (University Toulouse 1 (UT1), Toulouse, France, 2000). He has a number of collaborations with very important researches in prestigious universities around the world. He has reported his work in journals, book chapters, conference papers, and technical reports, and so far has supervised several students at the graduate and undergraduate level. His current research interests include several topics on: Human-Computer Interaction, Mobile Technologies, Software Engineering, and Artificial Intelligence.

Jonathan Bishop is a Chartered IT Professional and a director of Glamorgan Blended Learning Ltd and Chair of its Centre for Research into Online Communities and E-Learning Systems. A Town
Councillor in Wales, he is committed to finding technological solutions to social, economic and cultural problems of his community, including tackling the ‘digital divide’. Jonathan has developed and researched online communities since the 1990s and is noted for inventing the Circle of Friends social networking technology and the PARLE e-learning system for which he was a finalist in the Innovation category of the New Statesman New Media Awards in 2004. He holds a BSc(Hons) in Multimedia Studies, specialising in online communities for the Web and TV, an MSc in E-Learning, specialising in persuasive technology and an LLM in European Union Law, specialising in the e-learning industry. In his spare time Jonathan enjoys taking part in debating competitions, swimming, listening to music, spending time in his garden, and playing video games.

Peter Byrne is a PhD research student in the Centre for Research in IT in Education (CRITE), at the School of Computer Science & Statistics, Trinity College. His research concerns the use of mobile technology to support collaborative and constructionist applications to for digital narrative and animation production. He has studied for a B.A. (Mod) in Information and Communications Technology (1998-2002) and for an M.Sc in Networks and Distributed Systems (2003-2004) at Dublin University, Trinity College. He has worked as a research assistant in the Machine Learning Group at Trinity College investigating an application Case Based Reasoning to physiotherapy treatment.

Juan Manuel González Calleros is a Researcher assistant of the University catholic of Louvain (UCL). He is member of the Belgian Lab of Human Computer Interaction and of the UsiXML consortium. Having received a scholarship award, he came to Belgium and completed his DEA in computer Science from UCL. He received a master degree in Computer Sciences at National Institute of Astrophysics, Optics and Electronic (Mexico). Juan Manuel Gonzalez Calleros is pursuing a PhD in Computer Sciences with the thesis model Driven engineering of 3D User Interfaces at UCL, Louvain School of Management (IAG-LSM). Her research interests include workflow models, Model-Driven engineering for developing User Interfaces, in general, and 3D User Interfaces, in particular.

Maria Jose Casany (1973) received an engineering degree in computer science in the Politecnical University of Catalonia. She has participated in the development of several LMS and authoring tools, and has been an online teacher. Since 2003, she has taught software development, and databases design and administration as a lecturer in the Universitat Politecnica de Catalunya (http://www.upc.edu) and other universities such as UOC (http://www.uoc.edu). Maria Jose has developed several Open source projects such as the J2MEMicroDB (a database engine for Mobile devices) and a migration of the authoring software JClic to the OLPC X0 platform (http://laptop.org). She is writing her phd dissertation about Ubiquitous learning for sustainable development. Her current main project is the development of an open source mobile client for Moodle.

Dr. Alan Chamberlain is an internationally published research fellow, working in the Mixed Reality Lab at the University of Nottingham. He currently sits on the editorial board of five international journals and has reviewed for numerous conferences and workshops in the field of Human Computer Interaction. His interests are mobile/wearable human computer interaction, pervasive computing, art and user evaluation and critical interpretations of new technologies/HCI-based frameworks. The Mixed Reality Laboratory (MRL) is an interdisciplinary research laboratory at the University of Nottingham. It brings together leading researchers from the Schools of Computer Science, Engineering and Psychology to research mixed reality - new technologies that merge the physical and digital worlds.
About the Contributors

Dr. Edward V. Chapel has focused his professional efforts for most of his career on the strategic uses of technology in higher education environments. Currently the CIO and Vice President for Information Technology at Montclair State University in Northern New Jersey, where he has been for the past eight years, Ed has pursued a particular interest in the living and learning benefits of mobile computing, and broadband cellular services in particular, for contemporary college students. Prior to working in the information technology arena, he utilized his doctoral preparation in sociology to support his activities as an Institutional Research professional and a faculty member, teaching a broad range of courses in the discipline with a special focus on quantitative research methods and sampling design.

Simona Colucci (s.colucci@poliba.it) received the laurea “cum laude” degree in Management Engineering in 2002 and the Ph.D. degree in 2006 from Technical University of Bari. She is currently a Post Doc research student at Technical University of Bari. Her research interests include Knowledge Representation, Description Logics and their applications to Knowledge management. She is involved in various research projects and has authored various papers on journals and conferences on these topics.

David Crellin was educated at Rugby, Bristol, and Cambridge. He joined PA’s, Technology division where he was responsible for managing a number of major projects. From 1982 David has run his own business (Abington Partners). Abington originated data-logging for schools. The company has won three SMART awards from the DTI. In 2002 we introduced the ScienceScope Datalogging products. Over the last 4 years the range has grown to be the most innovative and comprehensive available. These products are being used extensively in innovative developments in science teaching including: ‘Participate’, A £3 million collaborative research and development project which aims to demonstrate and evaluate how technologies can help people create and share digital content. Participate is supported through the Technology programme with grant funding from the Technology Strategy Board and the EPSRC. David lives with his wife and four children in Bath. He is 55.

Dr. Teresa Dillon is an artist-researcher and director of the intermedia company Polar Produce. Through Polar Produce she creates and produces location-based intermedia work, which combines performance, visual and sound arts, interactive design, new and old media. Alongside her work in Polar Produce, Teresa also creates her own installations and performances, and works with Kathy Hinde in the sound art duo BOP. Her work has shown internationally at various festivals and conferences and she publishes on creative collaboration, music technology, new media design, open source technology and educational media. In 2007, she set up New Interfaces for Performance, a distributed research and touring network of artists from across Europe. She also directs the UM Intermedia Festival, Lisbon, Portugal and the OFFLOAD-Systems for Survival art-research programme. Teresa also works as a freelance producer and researcher, (including for the BBC) and teaches on the Arts, Culture and Education MA at Cambridge University.

Daniel C. Doolan, is a lecturer in the School of Computing, Robert Gordon University, Aberdeen. His main research interest is on Mobile and Parallel Computing. He has published over 40 articles in the areas of mobile multimedia, computer graphics and parallel processing.
Dr. Danaë Stanton Fraser is a Reader in Psychology at the University of Bath where she leads the CREATE group evaluating novel technologies and studying their effects on collaborative learning. Dr. Stanton Fraser has led a number of technology enhanced learning projects including the JISC-funded SENSE project exploring children’s use of pollution monitoring sensors for understanding environmental impact and ‘the mobile phones in schools’ project. She is currently an investigator on the EPSRC Cityware programme, evaluating collaborative impacts of mobile technologies on children and adults across heritage environments and an investigator on the TSB/EPSRC Participate project exploring pervasive computing for mass participation in environmental monitoring. Working in an interdisciplinary environment, she has published over 65 papers in peer-reviewed journals and conferences.

Alba Fuertes graduated in Industrial Engineering at the UPC Technical University of Catalonia (Spain), School of Industrial and Aeronautical Engineering of Terrassa (ETSEIAT), in 2007. Since then, she has been working in the research group “Group of Research and Innovation for Construction - GRIC” at UPC. Currently, she is a PhD student in Construction Engineering and her research interests are Innovative Information and Computing Technology applications for knowledge management, decision-making, and processes improvement in construction projects. She has also been working at UPC as an assistant lecturer since 2007. Currently, she is involved in different research projects focusing on “collaborative e-learning systems” and “knowledge management in construction research projects”, one of them the European eContentplus project MACE.

Maxine Glancy is a Behavioural Scientist and User Experience Designer at the BBC (Research and Innovation) in London, England. Her research explores behavioural and design factors that shape the design and use of broadcast content and technologies. This includes subjects such as location-based computing, targeted help & accessibility, public displays, mobile collaborative ‘learning-games’, user generated content, pervasive media, broadcast entertainment services, and broadcast system design. She has degrees in Psychology, Computing, Design, and Environmental Science.

Amanda Gower is a principal researcher in the Media Interfaces Group in the Broadband Applications Research Centre, BT Innovate. Amanda trained as an animator, and received a BA (Hons) degree in Design from Edinburgh College of Art and a Masters degree in Computer Graphics and Animation from the National Centre for Computer Animation, Bournemouth University. Since joining BT in 1994, Amanda has developed virtual reality and pervasive media prototypes and applications, for learning, collaborative working, the arts and entertainment. Amanda has worked on collaborative research projects for some time, as a designer for eRENA (Tools for the Art of Tomorrow), and as the BT project lead for TOWER (Theatre of Work Enabling Relationships) and E-drama (an interactive role-play tool combining drama, ICT and education). She is the project manager for the Participate project, which explores how convergence in pervasive, online and broadcast media can support mass-participatory campaigns.

Andy Gower leads the Media Interfaces Group in the Broadband Applications Research Centre, BT Innovate. Andy’s team is focused on creating new ways for consumers to access, interact, create and share media using Broadband enabled services and devices. Considering how emerging interfaces and technologies can enable people to break free from the desktop PC and gain new experiences supported by both fixed and wireless Broadband. Andy received a BA (Hons) degree in Three Dimensional Design from Leicester Polytechnic. Since joining BT in 1990, Andy has worked on the design of consumer and
capital plant products and a variety of vision setting research projects. Andy’s current research work is focused on ‘located’ media, leveraging User Generated Content and Character Mediated Communications.

**Josefina Guerrero García** is doing her PhD research in the domain of Management Sciences, Option “Information Systems” at Université catholique de Louvain (Belgium), Louvain School of Management (IAG-LSM). She received a DEA (Diplôme d’Etudes Approfondies) in Management Sciences from the same university in 2006 and a Master’s Degree in Management at Instituto de Estudios Universitarios (Mexico) in 2001. She is a member of the Belgian Laboratory of Computer Human Interaction (BCHI) and the UsiXML Consortium. Her research interests include workflow models, computer supported cooperative work, and information systems.

**Lester Gilbert** is a Lecturer in Information Technology at the University of Southampton. He has published a textbook, Principles of e Learning Systems Engineering, co-authored with Veronica Gale, integrating his business-oriented practical experience of Systems development with Multimedia and Computer Aided Instruction to form the basis of his focus on e learning and the use of technology in learning and teaching. Lester is the Principal Investigator on the JISC-funded REAQ and EFSCE projects, and a Co-Investigator on a number of other JISC-funded projects including mPLAT, Remora, AsDel, FREMA, CORE, and EASiHE. He has published a number of papers on e-learning and e-assessment. Lester has a background in experimental and cognitive psychology, in particular learning theory and the statistical analysis of data and psychometric measures of test quality.

**Paul Hayes** is a Lecturer and Researcher with the School of Computing at National College of Ireland. He graduated in 1990 with an honours degree in Electronic Engineering from the University of Limerick. He subsequently completed a Master’s degree by full-time research in the area of wireless networks. He was then employed by Queen’s University Belfast as a Research Associate to work on a collaborative research project in telecommunications between the University and Nortel. After working in the telecommunications industry as a senior engineer for a number of years in 2000 he joined the National College of Ireland as a lecturer in telecommunications. His research interests include mobile learning, data communications and multimedia.

**Shinichi Hisamatsu** is a researcher of interfaculty initiative in information studies, the university of Tokyo in Japan. He received Master of Media and Governance from Keio university. His specialty is Educational technology and media art. He is interested in how to construct user interface in education context. He belongs to Japan society for educational technology, Human Interface Society, Information Processing Society of Japan, the institute of electronics, information and communication engineers(IECE),Association for the Advancement of Computing in Education(AACE).

**Lars Erik Holmquist** is a senior researcher at the Swedish Institute of Computer Science in Kista, Sweden, a research leader in the Mobile Life Center at Stockholm University, and leader of the Future Applications Lab at the Viktoria Institute in Göteborg, Sweden. He previously founded and led the PLAY research group at the Interactive Institute. He received his master’s degree in Computer Science in 1996 and his PhD in Informatics in 2000, both at the Göteborg University, and became an associate professor at the Göteborg IT University in 2004. His research interests include human-computer interac-
About the Contributors

Dr. Yvonne Howard is a Senior Research Fellow within the Learning Societies Lab at the University of Southampton. She holds an Honours degree in Computer Science and a PhD in modelling software development processes. Her initial research lay in process models for software development, particularly investigating dynamic processes where evolution is driven by feedback in the domain. More recently this has focused on Agile and social methods of user participation in the development process. She has been involved in many UK projects: the EPSRC funded ABCD project, the Open Middleware Infrastructure Institute (OMII), and JISC funded FREMA, r2q2, CiLaReT, mPLaT, Remora, FAROES and InnovationBase projects. In all of these projects, a particular interest has been how information systems can provide social, knowledge and organisational capabilities to encourage emergent innovation in practice.

Tim de Jong is a PhD student at the Open University of the Netherlands. He received his Master’s degree in Knowledge Engineering from the University of Maastricht in 2005. Since 2006, he has been working at the CELSTEC institute of the Open University of the Netherlands mainly researching mobile learning, contextualized computing, and knowledge engineering. The topic of his PhD focuses at the support of authentic learning processes with mobile technology using mobile media delivery, mobile media creation, and contextualised notifications. Moreover, he is currently working in the European eContentplus project MACE, which focuses on the metadata enrichment of architectural content.

Dr. Patricia Kahn has been employed at Montclair for eight years supporting faculty and providing leadership in developing a community around teaching and learning using technology. Through her leadership as Director of Technology Training and Integration, faculty are able to explore innovative teaching methodologies that promote a learning environment that encourages collaboration, critical thinking, and exploration in response to a diverse community of learners. Patty completed her doctoral degree in Education, where her research focused on learning styles and instructional design and has recently applied her research with academic uses of mobile technology in higher education.

Dr. Siu Cheung Kong is an Associate Professor in the Department of Mathematics, Science, Social Sciences and Technology at the Hong Kong Institute of Education. Dr. Kong received a Doctor of Philosophy from the Department of Computer Science of the City University of Hong Kong. Dr. Kong publishes in the fields of information technology in education, information literacy education, collaboration in mobile learning and cognition and technology in mathematics education. He is currently a member of the Steering Committee on the Strategic Development of Information Technology in Education that was set up by the Government of the Hong Kong SAR.

Professor Dr. Rob Koper is the dean of the Centre for Learning Sciences and Technologies (celstec.org), a Research centre of the Open University of the Netherlands (formerly OTEC) that aims to research, develop, test and provide sustainable and evidence-based solutions for the advancement of education,
training, professional development and learning experiences at work, at school, at home and on the move. His personal research concentrates on professional development in self-organised distributed learning networks. In the past, he developed the Educational Modelling Language (the predecessor of IMS Learning Design) and led the OUNL’s contribution to the IMS LD specification activities. He is furthermore coordinating the European Integrated Project TENCompetence that aims to develop an infrastructure for lifelong competence development.

**John Lenarcic** is a Physicist and Applied Mathematician by training, an IT academic by fortunate accident and an Armchair Philosopher by conscious choice. He is currently a Lecturer in the School of Business Information Technology at RMIT University in Melbourne, Australia.

Dr. **Seng W. Loke** is a Senior Lecturer at the Department of Computer Science and Computer Engineering in La Trobe University. He leads the Pervasive Computing Interest Group at La Trobe, and has authored ‘Context-Aware Pervasive Systems: Architectures for a New Breed of Applications’ published by Auerbach (CRC Press), Dec 2006. He has (co-)authored more than 180 research publications including numerous work on context-aware computing, and mobile and pervasive computing. He has been on the program committee of numerous conferences/workshops in the area, including Pervasive’08, and PerEL (Pervasive E-Learning).

**Tracey J. Mehigan** is a researcher with the IDEAS Research group at the Department of Computer Science, University College Cork, Ireland. Her principle area of research focuses on the use of mobile computing for eLearning, to facilitate the inclusion of those with disabilities and special needs, into mainstream and ubiquitous collaborative learning environments.

Dr. **David Metcalf** is the director of the Mixed Emerging Technology Integration Lab at the University of Central Florida. Specific areas of focus include learning business strategy, performance measurement, operational excellence, outsourcing, blended learning and mobile learning. Dr. Metcalf was formerly the Chief Learning Technologist at RWD Technologies. There he was responsible for the analysis, design and strategic alignment of RWD’s technology solutions for learning. He also led the development of several award-winning mobile learning innovations. Dr. Metcalf joined RWD with the sale of his NASA Kennedy Space Center laboratory spin-off company, Merrimac. He was responsible for the management and operations of the award-winning multimedia laboratory for various government contractors. Dr. Metcalf holds a B.A. in Computer Graphics from the University of Texas, an M.S. in Computer-Based Learning, and a Ph.D. in Information Systems from Nova Southeastern University and keeps current by continuing to hold appointments at several universities.

Dr. **David Millard** is Lecturer of Computer Science within the Learning Societies Lab at the University of Southampton. He holds an Honours degree in Computer Science and a PhD in Contextual Hypermedia Systems. David has been involved in Hypertext and Web research for over ten years, firstly in the area of Open, Adaptive and Contextual hypermedia and more recently in the area of Web 2.0, Semantic Web, Knowledge and Narrative interfaces, and the impact of Web Literacy on e-learning and m-learning. He has been the Principle and Co-Investigator on many projects in the UK, including the JISC funded FREMA, MPLAT, Remora, Semtech, Synote, R2Q2, PeerPigeon, Faroes and EdShare projects, and has over one hundred international publications in these areas. He is interested in the ways
that people use information systems in-the-wild, and how we can use emergent social, organisational and semantic structures to help them make sense of their world.

Dr. Kiyoshi Nakabayashi is a professor of R&D Department at National Institute of Multimedia Education. After receiving a M.Sc. degree from Tokyo Institute of Technology in 1982, he entered Electrical Communications Laboratory of Nippon Telegraph and Telephone Corp. where he was engaged in the research and development of parallel processing, character recognition system, and network-based learning support system. In 1999, he joined NTT-X Inc. where he has conducted development and operation of e-learning service system. He has also worked in the field of e-learning technology standardization serving as the ISO/IEC JTC1 SC36 (Sub-committee for Information Technology for Learning, Education and Training) Japan national body head of delegation and the vice president chairing Executive Committee of eLC (e-Learning Consortium Japan). He received 1994 JSAI (The Japanese Society for Artificial Intelligence) Research Encouragement Award and ICCE95 (International Conference on Computers in Education) Outstanding Paper Award. He received a Ph.D degree in human science from Waseda University in 2006.

Dr. Wan Ng is Senior Lecturer in the areas of science & technology education and gifted education in the Faculty of Education (Bundoora) at La Trobe University, Australia. Her major research interest lies in the use of innovative and integrated curriculum in learning, and the use of technology, including handheld and mobile technologies, in education at both school and tertiary levels.

Dr. Howard Nicholas is Senior Lecturer in Language Education. His major focus is on the relationship between interaction patterns and the development of language and thinking with handheld devices viewed as a tool to support innovative pedagogies that promote divergent thinking and open-ended educational practices.

Tommaso Di Noia (t.dinoia@poliba.it) is an assistant professor in Information Technology Engineering at Technical University of Bari (Politecnico di Bari). He got his Ph.D. from Technical University of Bari. His main scientific interests include: Description Logics - Theoretical and Practical Aspects; Resource Matchmaking; Knowledge Representation Systems for Electronic Commerce; Automatic (Web) Services Discovery and Composition; Knowledge Representation Systems and Applications for the Semantic Web. He co-authored papers which received the best paper award at conferences ICEC-2004 and IEEE CEC-EEE-2006.

Jordi Piguillem is a Computer Software Engineer by Universitat Politecnica de Catalunya. During last three years has been collaborating on several Moodle projects as a programmer and as a software designer. During Summer '08, he had been working in Google Summer of Code initiative, where he has been developing an IMS LTI compliant client for Moodle. Nowadays, he is working on his PhD about integration of information systems.

Agnese Pinto (agnese.pinto@doom-srl.it) received a laurea degree in Management Engineering from Technical University of Bari (Politecnico di Bari), Italy, in 2004. She is currently a project manager at D.O.O.M. s.r.l., where she leads the ontology design group. Since July 2004 she also collaborates with the Information Systems Research Group of Politecnico di Bari. Her main research interests are in
ontology design, natural language ontology mapping, ontology design pattern and in e/m-learning field. She has co-authored various research papers in these fields.

**Ian Pitt**, lectures in Usability Engineering and Multimedia at University College, Cork, Ireland. He took his D.Phil at the University of York, UK, then spent a year as a post-doctoral research fellow at Otto-von-Guericke University, Magdeburg, Germany, before moving to Cork in 1997. He is the leader of the Interaction Design, E-learning and Speech (IDEAS) Research Group at UCC, and has published over 60 articles within the areas of HCI and the use of speech and non-speech sound in human-machine interfaces.

**Dr. Joan Richardson** is a Senior Lecturer in the School of Business Information Technology at RMIT University in Melbourne, Australia. She has led University projects designed to strategically support adoption and implementation of new technologies in the higher education sector for a number of years. Collaborations with industry and consultancies have ensured that she has maintained a leading position in the application of ICT in the higher education sector, shifting effective use of technology into the mainstream and delivering state of the art courses and programs. Dr Richardson has won University awards for curriculum development and construction and incremental development of suites of resources that utilise technology innovations for delivery. Since 2001 she has been the principal author of four editions of the text Computing For Business Success published by Pearson Education Australia. Each version of the text has included ‘state-of-the-art’ digital media and resources, in the form of companion CD-ROM’s and Web sites, constructed in conjunction with Pearson Education Australia.

**David Rogers** is a researcher at the Institute for Simulation and Training. Mr. Rogers is investigating mobile learning applications in the developing world, and the use of digital repositories in education. Mr. Rogers served as a director of Aid & Development programs in East Africa for several years, where he was responsible for establishing and managing one of the only operating secondary schools in Southern Sudan during the civil war. He continues to manage a scholarship fund that sponsors promising African students to attend college and university programs. Mr. Rogers holds a B.S. in Basic Sciences from the United States Air Force Academy, and is currently a doctoral student at the University of Central Florida in the Texts and Technology program. His research areas include international development, cognitive psychology, and mobile learning.

**Mattias Rost** is a PhD student at the IT University of Gothenburg in Applied IT, and has a Masters of Science degree in Computer Science from Chalmers University of Technology. He has been a research assistant in The Future Applications Lab at the Viktoria Institute since 2005, and at the IT University of Göteborg since 2006. He is now conducting research at the Mobile Life Centre in Stockholm, Sweden, on mobile applications and services. His research domains include ubiquitous computing, human-computer interaction, as well as computer supported collaborative work technologies.

**José Rouillard** is an Associate Professor in Computer Science at the University of Lille 1 in the LIFL laboratory. The LIFL (Laboratoire d’Informatique Fondamentale de Lille) is a Research Laboratory in the Computer Science field of the University of Sciences and Technologies of Lille (USTL) linked to the CNRS, and in partnership with the INRIA Lille - Nord Europe. José Rouillard obtained his PhD in 2000 from the University of Grenoble (France) in the field of Human-Computer Interfaces. He is interested
in Human-Computer Interaction (HCI), plasticity of user interfaces, multi-modality and multi-channel interfaces. He has written one book on VoiceXML in 2004, another one on Software Oriented Architecture (SOA) in 2007 and more than 70 scientific articles. He is now engaged in research on mobility and pervasive/ubiquitous computing.

**Francisco Javier Martinez Ruiz** is a professor of computer science at the University of Zacatecas (Mexico). Most of his research centers in the field of Human Computer Interaction. He is studying how to tackle the challenges of the User Interface modeling in the Web and the integration of these technologies to e-learning. He received a Bachelor’s degree in Computer Sciences from the Institute of Technology of Zacatecas (Mexico), a Master Degree in Computer Sciences from The Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM, Mexico) and a DEA Degree from the Université catholique de Louvain (Belgium). From 2004 to 2006 he directed the Specialization in Computer Science in the University of Zacatecas. He is a researcher of the Belgian Laboratory in Computer Human Interaction (BCHI) at the Université catholique de Louvain. He is the recipient of an AlBan scholarship, the European Union Program (www.programalban.org) of High Level Scholarships for Latin America, under reference E06D101371MX.

**Michele Ruta** (m.ruta@poliba.it) received the laurea degree in Electronic Engineering from Politecnico di Bari (Technical University of Bari) in 2002 and his Ph.D. in Information Engineering from the same University in 2007. His research interests include pervasive computing and ubiquitous Web, mobile service discovery and composition, Knowledge Representation systems and applications for wireless ad-hoc contexts. On these topics he has co-authored various papers in international journals and conferences. He is involved in various research projects related to his research interests.

**Tally Schmeits** graduated in Computer Science at the Fontys Hoge school of Eindhoven (Netherlands), specialisation Technical Computer Science (TCK), in 1998. After that, he started to work for a company which provided multi-medial learning solutions for preschool and higher education as Senior Software Developer/System Architect. Currently, he is working at the Open University as a Software Developer on the European MACE project, focusing on the development of a Competence Catalog. His next challenge is starting up his own company Schmeits Websolutions which provides web-based Solutions for a wide range of clients.

**Eugenio Di Sciascio** (disciascio@poliba.it) received the “laurea” degree with honors from University of Bari, and the Ph.D. from Politecnico di Bari (Technical University of Bari). He is currently full professor of Information Technology Engineering at Technical University of Bari, and leads the research group of SisInfLab, the Information Systems Laboratory of Technical University of Bari. Formerly, he has been an assistant professor at University of Lecce and associate professor at Technical University of Bari. His research interests include multimedia information retrieval, knowledge representation and e-commerce. He is involved in several national and European research projects related to his research interests. He co-authored papers that received best paper awards at conferences ICEC-2004 and IEEE CEC-EEE-2006.

**Floriano Scioscia** (f.scioscia@poliba.it) received the Laurea Degree in Information Technology Engineering from Politecnico di Bari, Technical University of Bari in 2006. He is currently pursuing
his PhD in Information Engineering at the same University. His research interests include pervasive computing, mobile service discovery and composition, knowledge representation systems and applications for wireless ad-hoc contexts.

Boon-Chong Seet obtained his PhD in Computer Engineering from Nanyang Technological University, Singapore, in 2005. After graduation, he was recruited as a Research Fellow under the Singapore-MIT (Boston) Alliance (SMA) computer science program at the National University of Singapore, School of Computing. In 2007, he was awarded a Visiting Scholarship by ETSIT Technical University of Madrid, Spain, to pursue research under an EU co-funded project on multi-disciplinary advanced research in user-centric wireless network enabling technologies (MADRINET). Since December 2007, he is with Auckland University of Technology (AUT) as a faculty member of its Electrical and Electronic Engineering Department. His research activities are generally in the areas of mobile networking, computing, and communications. Recently, he has also an interest in the research and development of mobile applications. To date, he has about thirty technical publications in refereed journals, books and conferences.

Marcus Specht is Professor for Advanced Learning Technologies at the Open University of the Netherlands and is currently involved in several national and international research projects on competence-based lifelong learning, personalised information support and contextualised learning. He received his Diploma in Psychology in 1995 and a dissertation from the University of Trier in 1998 on adaptive information technology. From 1998 until 2001, he worked as senior researcher at the GMD research centre on HCI and mobile information technology. From 2001, he headed the department “Mobile Knowledge” at the Fraunhofer Institute for Applied Information Technology (FIT). From 2005, he was Associated Professor at the Open University of the Netherlands and working on competence-based education, learning content engineering and management, and personalisation for learning. Currently, he is working on mobile and contextualised learning technologies, learning network services, and social and immersive media for learning.

Sabin Tabirca is a lecturer in Department of Computer Science of National University of Ireland, Cork. His main research interest is on Mobile and Parallel Computing for Scientific Problems. He has published more than 100 articles in the areas of mobile multimedia, parallel computation, number theory and combinatorial optimization.

Brendan Tangney is a Fellow of Trinity College Dublin and is a Senior Lecturer in the School of Computer Science & Statistics. He is co-director of Trinity’s Centre for Research in IT in Education (www.cs.tcd.ie/crite). His research is concerned with the innovative use of ubiquitous technology to enhance the experience of learners in a variety of formal and informal settings.

Dr. Torab Torabi is Senior Lecturer at Department of Computer Science and Computer Engineering. He is the head of Software Engineering Interest Group. He has (co)authored more than forty journal and conference papers in Software Engineering and Mobile Computing. His research interests include Software Engineering, Process Modeling, and Context-Aware Mobile Services. Dr. Torabi serves in editorial board of number of journals, and he has served in program committee and organization of number of conferences and workshops. He has supervised and coordinated more than thirty major research and industry projects.
Jean Vanderdonckt is Full Professor in Computer Science at Université catholique de Louvain (Belgium), Louvain School of Management (IAG-LSM) where he leads the Belgian Laboratory of Computer-Human Interaction (BCHI). This laboratory is conducting research, development, and consulting services in the domain of user interface engineering, a domain that is located midway between software engineering, human-computer interaction, and usability engineering. Jean Vanderdonckt is the founder and the coordinator of the UsiXML Consortium that structures activities towards the definition and the usage of UsiXML (User Interface eXtensible Markup Language) as a common User Interface Description Language. He is the coordinator of HCI activities within the Similar network of excellence (The European research taskforce creating human-machine interfaces SIMILAR to human-human communication). He is also a member of the European COST n°294 Action MAUSE on usability engineering and of the SESAMI Working Group. He is a Senior member of IEEE, ACM, and SIGCHI. He is also co-editor in chief of Springer HCI Series of books.

Stephan Weibelzahl is a Lecturer and Researcher with the School of Computing at National College of Ireland. He is programme director of the MSc in Learning Technologies. Prior to that, Stephan headed a research group in learning technologies at Fraunhofer Institute Experimental Software Engineering, Kaiserslautern, Germany. He holds a Diplom (Masters) in Psychology and received a PhD from the University of Trier, Germany. Stephan’s main areas of expertise are personalisation in e-Learning and the evaluation of learning technologies. Exploiting artificial intelligence techniques, Stephan and his team designed, developed and evaluated a number of e-Learning systems that monitor and adapt to the user in order to improve the learning process.

Dr. Gary Wills is a Senior Lecturer in Computer Science at the University of Southampton. He graduated from the University of Southampton with an Honours degree in electromechanical engineering, and then a PhD in Industrial hypermedia systems. He is a Chartered Engineer and a member of the Institute of Engineering Technology and a Fellow of the Higher Educational Academy. Gary’s main research interests are in Personal Information Environments (PIEs) and their application to industry, medicine and education. PIE systems are underpinned by Service Oriented Architectures, adaptive systems and advanced knowledge technologies. In education he researches into adaptive assessment systems and the use of mobile technology. In Medicine he researches Virtual Research Environments enabling collaboration, discussion and dissemination of results from clinical trials with large datasets. For Industry his research, allows engineers to view federate knowledge, using knowledge technologies and ontologies to present appropriate information to the engineers.

Dr. Dawn Woodgate is a Research Fellow and member of the CREATE Group in the Department of Psychology at the University of Bath, UK. She has an interdisciplinary background, with a first degree in Biology, a Masters in Research, and a PhD in Science and Technology Studies. She is a qualified and experienced former science teacher, and now researches and publishes in the areas of Education and Technology, Human Computer Interaction and Science and Technology Studies.

Kin Choong Yow obtained his B.Eng (Elect) with 1st Class Honours from the National University of Singapore in 1993 and his Ph.D. from the Cambridge University, UK in 1998. He joined the Nanyang Technological University, Singapore as a faculty member in May 1998, and he is presently an Associate Professor of Computer Engineering in the College of Engineering. His research interests include
Computer Vision, Wireless Communications and Computational Intelligence. He has published over 57 top quality international journal and conference papers and he has served as reviewer for a number of premier journals and conferences, including the IEEE Wireless Communications and the IEEE Transactions on Education. He was the winner of the NTU Excellence in Teaching Award 2005, and he also won the Most Popular SCE (School of Computer Engineering) Year 1 Lecturer, for 4 consecutive years (2004 – 2007).