About the Contributors

Dale Holt, Associate Professor, is Associate Director of the Institute of Teaching and Learning at Deakin University, Australia, with active participation in Educational Design, Professional Development and Research. Dale has coordinated major academic professional development programs and his responsibilities see him heavily involved in supporting staff applying for University and national teaching awards and development grants. He was awarded a national Carrick Citation for Outstanding Contributions to Student Learning in 2007, ‘For longstanding leadership and support for the professional development of teaching staff to advance student learning in the field of flexible, online and distance education’. Dale was Project Leader of the 2007 Australian Learning and Teaching Council (ALTC) funded project, ‘Strategic Leadership for Institutional Teaching and Learning Centres: Developing a Model for the 21st century’, and a project member of the recently completed 2008 ALTC Competitive Grants project, ‘Building academic staff capacity for using eSimulations in professional education for experience transfer’ and a 2008 ALTC Leadership project, ‘Coalface subject co-ordinators – the missing link to building leadership capacities in the academic supply chain’ nearing completion. He has recently secured an ALTC grant for a project titled, ‘Building distributed leadership in designing and implementing a quality management framework for Online Learning Environments’.

Stephen Segrave is an Academic Education Designer for the Institute of Teaching and Learning, Deakin University, Australia. Having lectured in Instructional Design and Educational Technologies, he now consults with academic staff to improve teaching and learning through innovative designs. Stephen is recognised for design excellence through Vice-Chancellor’s awards in 2000 and 2002 for ‘Excellence in Teaching’ and in 2008 for ‘Outstanding Achievement in Teaching and Learning’. In 2002 the award for the suite of simulations: ‘<HOTcopy®>; a virtual newsroom’ (Allen & Unwin, 2003) also won the Aschilete award for Best Software Project demonstrating ‘Exemplary use of electronic technologies in teaching and learning in tertiary education’ and the Australian Institute of Training and Development (AITD) award for ‘Innovation in Learning’. In 2004, Stephen received a Deakin Teaching Explorer Grant culminating in the strategic project: ‘Experiential Learning Through Simulations: Enhancing education in the professions through interactive computer simulations online’ creating five simulations in different disciplines. During 2008-2010 he was a member of the leadership team for the Australian Learning and Teaching Council competitive grants project: ‘Building academic staff capacity for using eSimulations in professional education for experience transfer’. Stephen has published on eSimulations, eLearning environments and academic professional development in several national and international journals.
Jacob L. Cybulski, Associate Professor, is a member of the School of Information Systems at Deakin University, Australia. His research interests include Information Systems theory and research methodology, Information Systems strategy, as well as ICT education. Jacob also works as a consultant to organisations willing to investigate their business processes, develop their technology strategies or align their IT and business practices. Jacob’s past projects range from engineering and telecommunications applications to developing software productivity environments and toolkits. His recently commissioned work includes work on e-commerce, Web development and contents management, educational video and simulation. In his free time Jacob engages in competitive fencing and fine arts.

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Theo Bastiaens is Professor of Educational Technology, Director of the Institute of Educational Science and Media Research and dean of the Faculty of Humanities and Social Sciences at the Fernuniversität in Hagen (Germany). He also holds a Professorship for Educational Technology at the Open University of the Netherlands. His research interest includes instructional design, authentic learning and new technology. He has published extensively in this field and is a frequent invited speaker at conferences and seminars. For the Association for the Advancement of Computing in Education (AACE) he Co-Chaired E-learn 2007 and E-learn 2009. In 2011 he will be the Co-Chair of the Ed-Media Conference in Lisbon, Portugal. He is an Executive Committee Member of the World Conference on E-learning and Executive Committee Member & Founder of Global Learn Asia Pacific.

Scott Brunero is a Clinical Nurse Consultant in mental health liaison nursing, at Prince of Wales Hospital Sydney, Australia and has been in mental health nursing for over 20 years. Scott is a PhD student at Sydney University researching the provision of mental health education programmes for ‘non’ mental health professionals. Other research interests include, stress management in nursing, emergency department mental health and metabolic syndrome in people with a mental illness.

Chris Bushell is a Senior Lecturer and the Year 2 Course Coordinator for the Associate Degree in Policing Practice (ADPP) at Charles Sturt University (CSU), NSW, Australia. Before joining CSU in 2000, Chris was a Chief Inspector serving in the NSW Police Force for 28 years. Chris spent the majority of his policing career at the Redfern Command in Sydney commanding and controlling large police operations and major incidents; developing and implementing standard rostering practices and ‘Standard Operating Procedures’ for the duties of: Aboriginal Liaison Officers; handling of riot incidents in the Redfern Community and handling of prisoners within the Police Station. Chris has lectured on policing & crime prevention as well as society and law subjects and has been the Subject Coordinator for PPP251: Session 5 Police Practicum for over eight years. He has recently re-written components of PPP251 and has been the driving force for a major distance education re-design/development project moving from paper based subject delivery to a more innovative, cutting edge multimedia approach to learning and teaching within the School.

Andrew Cram is completing a PhD with the Department of Education at Macquarie University, exploring innovative applications of ICT in education and research. He is currently focusing on virtual worlds, particularly their use as a space for modeling and refining design ideas that may be implemented in the ‘real’ world, and as a contextualised setting for role-based problem-solving scenarios.
About the Contributors

Kristin Demetrious is a Senior Lecturer in the School of Communication and Creative Arts, Deakin University, Australia. She is an experienced media and communication practitioner who at various times worked in house as a Publicist, Video Producer and Public Relations Administrator. She also has a background in community work and in 2003 received the Centenary of Federation Medal. Kristin’s PhD investigated communication in sub-political movements and in public relations. She has published widely in Australia and in the UK.

Gregory Duncan is a Senior Health Services Research Fellow at Monash University, Australia and teaches into several programs. He works as an Independent Health Services Consultant. Greg has taught widely at undergraduate, graduate and professional development level in Communication, Wound Management, Pharmaco-epidemiology, Evidence-Based Practice and Public Health. He has worked with Asian regional groups and the World Health Organisation (WHO), developing and conducting training workshops for community pharmacists in the region. Greg is of the Journal of Wound Practice and Research and Pharmacy World and Science. He is a member of the editorial board and a peer reviewer for several international journals.

Sally Firmin is a Lecturer in Information Systems in the Graduate School of Information Technology and Mathematical Sciences at the University of Ballarat, Australia, and a Doctoral Candidate in Computer Science Education in the School of Information Technology at Monash University, Australia. Sally is a member of the Virtual Reality and Simulation Laboratory and the Computing Education Research Group and has published in the area of educational technology.

Michael Garrett is a PhD student currently studying at Edith Cowan University in Australia. His PhD studies focus on the application of three-dimensional gaming technologies within a problem-based learning framework for the purpose of providing training for real world scenarios. Michael has also conducted previous research in conjunction with the Royal Australian Navy to assess the viability of gaming technology for spatial awareness training with Collins class submarines.

Jenny Grenfell is an Art Educator at Deakin University. Her ongoing research involves the scholarship of teaching and learning and explores the concept of ‘mixed reality’ to inform and facilitate authentic constructivist learning in the arts by exploiting the interactive and immersive character of blended real and Multiuser Virtual Environments (MUVES). She believes that through shared experiences, collaborative student participation in learning is heightened through linking the digital infrastructure of e-learning technologies, mobile devises, games based apps and real world experiences.

Belinda Guadagno, a Lecturer in the School of Psychology at Deakin University, Australia, is an early-career researcher who, having completed her doctorate in the area of children’s eyewitness testimony, also specialises in the area of investigative interviewing of children. Dr. Guadagno plays a major role in the education and training of professional investigative interviewers (e.g., police, social workers) throughout Australia. In particular, she has established, in conjunction with Dr. Martine Powell, the first ever fully online course in this field, entitled Advanced Practice in Forensic Interviewing of Children, which includes the eSimulation UnReal Interviewing.
John G. Hedberg is Millennium Innovations Chair in ICT and Education, Head of the Department of Education, and Director of the Macquarie ICT Innovations Centre at Macquarie University. He is known for the ICT-based constructivist learning environments he has designed culminating in a British Academy award for an interactive theatre CD-ROM entitled *StageStruck*. His research has focused upon the role of technologies in engaging students in Mathematics, Science, History and Geography classrooms. In particular, how ICT can support disruptive pedagogies, where the digital nature of the tools enable outcomes to be achieved in ways not possible with other tools. This has resulted in the rethinking of learning tasks to provide both an engaging challenge for students and to support students creating artifacts demonstrating effective performance.

Anne Herbert works as an Assistant Professor at Aalto University, School of Economics, Helsinki. Previously she was Academic Director at Helsinki School of Economics Executive Education. Her research interests focus on management development and changes in the nature of work in all contexts but especially in academic workplaces. Recently she has published various chapters in books and recently also in the *Journal of Workplace Learning, Organisational Transformation and Social Change, Simulation and Gaming, and Thunderbird International Business Review*.

Audrey Jinks has a Bachelor of Creative Industries and has over 16 years corporate experience spanning diverse industries including education, publishing, government, investment banking, mining and mapping; successfully delivering services and solutions to a wide range of clients. Audrey majored in Communication and Interaction design and she is passionate about technologies which focus on these two elements. Audrey is an Educational Design Project Officer at The University of Queensland (UQ), actively supporting the use of Problem Based Learning and SBLi, at UQ and other Australian Universities, as a way to implement research-rich teaching and active learning.

Stephanie Johnson is a Lecturer in Social Work at Charles Sturt University, Australia. Previously, Stephanie had a lecturing position with Liverpool John Moore University, England and prior to that was a Lecturer and Student Counsellor at Charles Darwin University, Darwin, Australia for three years. Stephanie has had over 18 years experience in the field of social work and counselling in Australia and Europe. Stephanie has been working in the area of education for the last 10 years and has been practising as a counsellor since 1993. Her background is in counselling and social work. Stephanie is also recognised as a Mental Health Social Worker under the Better Health Initiatives of the Federal Government and has post graduate training in adult education. Stephanie’s area of research is in adolescent trauma, mental health and counselling. Stephanie has published and presented internationally in the area of social work and is passionate about social work education and inspiring students to be life long learners.

Peter Kandlbinder is a Senior Lecturer in the Institute for Interactive Media & Learning, University of Technology Sydney, where his main responsibility is academic staff development in assessment and evaluation. With more than 20 years of experience in the field of academic development, Peter has supported academics in developing their capabilities in digital media, assessing student learning, problem-based learning, postgraduate supervision and other forms of small group learning. Peter has extensive experience in leading interactive media projects including the development of SimAssessment, a classroom simulator designed to improve assessment practices at UTS.
About the Contributors

Piet Kommers is Associate Professor in New Media for Communication at the University of Twente, Netherlands. His PhD research addressed the need for conceptual representations in hypertext for the sake of learning. The last two decades he undertook research and development in virtual reality for medical training. European projects on multimedia design became a widespread demonstrator and motivated institutions to reconsider the balance between instruction and autonomous learning paradigms. From 2005, he accepted the position of Associate Professor in the field of societal effects of ICT. International student exchange emerged as a vivid example of socio-cognitive acculturation. Piet Kommers was elected as Chairman of the International Association for Development of the Information Society (IADIS) multiple conference with the sub strands of Web–based communities and e-society. He became Associate Editor of the International Journal of Continuous Engineering Education and Life-Long Learning and Executive Editor of the International Journal of Web-based Communities. In the period 2002-2005, he was Lector “Educational Functions of ICT” at Fontys University of Science. Through the UNESCO Institute for Learning Technology in Kiev he became Honorary Professor and received the title of Honorary Doctor by Capital University in Beijing.

Ian Larson is a Senior Lecturer in the Faculty of Pharmacy and Pharmaceutical Sciences at Monash University, Australia at which he teaches a number of undergraduate programs. Ian provides unit and course leadership and is currently the Chair of the faculty’s Quality in Learning and Teaching Committee. Ian is widely recognised for his contribution to innovations in teaching and learning in the pharmaceutical sciences. In 2010, he was the recipient of the Monash University Vice-Chancellor’s Teaching Excellence Award.

Mark McMahon is a Senior Lecturer and Program Director of Creative Industries and Contemporary Arts at Edith Cowan University where he also co-ordinates the Game Design & Culture and Digital Media courses. He has previously worked as a Multimedia Developer and Instructional Designer. His current research is in Serious Games, particularly the underlying psychology of learning and immersion as well as instructional design models to support Serious Game development.

Charlynn Miller is the Deputy Head of School with the Graduate School of Information Technology & Mathematical Sciences at the University of Ballarat, Australia. Charlynn’s research focuses on the enhancement of learning, teaching and business through the use of emerging technologies; specifically virtual worlds, social networking, and podcasting. Charlynn also conducts research in the area of Cyber-Safety. Charlynn has a number of publications and grants and regularly presents in the area of emerging technologies. Charlynn worked in the private IT sector for a number of years as a consultant, manager and business owner.

Deborah Murdoch is an Educational Technologist involved in designing practical learning experiences and resources with academics for students using educational technologies. She has worked as an Educational Designer and Educational Technologist at Charles Sturt University, Australia, and has experience as a High School Teacher with a specialisation in Information Technology. Deborah has a broad background in teaching over many years in a wide range of areas in both child and adult education and industry. She is currently working with the transition and retention of first year students in the School of Computing and Mathematics. Deborah has particular interest in simulations, serious games and
authentic work related teaching including role plays. She holds qualifications in Education majoring in Information and Educational Technology. Deb has a strong interest in creating professional development programs and resources to assist academics and educational designers improve teaching and learning using the most suitable ICTs.

Lemai Nguyen is a Senior Lecturer at the School of Information Systems, Deakin University, Australia. Her research interests include health informatics, creativity and problem solving in business requirements analysis, eLearning, and socio-technical issues in Information Systems. Lemai’s research is widely published in high quality international scholarly journals, book chapters, and conferences. Lemai is Program Chair for various academic conferences and Member of the Editorial Board of a number of international journals. She is a member of the Health Informatics Society of Australia (HISA), Special Interest Group in Aged Care Informatics, Steering Committee for Australian Workshop on Requirements Engineering, Australian Computer Society (ACS) and the Association for Information Systems (AIS).

Geoff Norton is a Professor at The University of Queensland and Associate Director of the University’s Centre for Biological Information Technology (CBIT). He spent over 20 years at Imperial College in the UK, working on economic, decision making, systems analysis and computer-based decision support systems for agricultural and natural resource management issues worldwide. After moving to Brisbane in 1992, Geoff is currently involved with helping to implement CBIT’s identification and educational software.

Diane Phillips, a Registered Nurse and Midwife, is an Associate Professor at Deakin University, Australia. Her academic responsibilities include teaching in undergraduate and postgraduate midwifery education and supervision of students enrolled in higher degree courses. Diane is the Course Coordinator for the Graduate Diploma of Midwifery/Master of Midwifery and Master of Nursing Practice (Nurse Practitioner). Her research interests include professional education, women’s health including pregnancy, labour and birth; and women who use substances (illicit drugs, alcohol and tobacco) during pregnancy. Diane is a member of the Australian College of Midwives, a national committee member of the Midwifery Education Standards Advisory Committee (MESAC), Fellow of the Royal College of Nursing Australia and member of PSANZ (Perinatal Society of Australia and New Zealand). She engages in peer reviews of articles submitted to professional journals for publication and participates in a number of committees and boards within the University.

Martine Powell, Personal Chair at the School of Psychology at Deakin University, Australia, is a leading expert in the area of eyewitness testimony and investigative interviewing. To date, she has over 130 publications related to the topic, including a book entitled A Guide to Interviewing Children (Allen and Unwin). Martine plays a major role in the education and training of professional investigative interviewers (e.g., police, social workers) throughout Australia. In particular, she has established the first ever fully online course in this field, entitled Advanced Practice in Forensic Interviewing of Children, which includes the eSimulation UnReal Interviewing.
Mary Rice has worked in the field of education for many years, and has spent the past 15 years specialising in educational evaluation, with a particular focus on evaluation of the use of various kinds of technologies in university courses, including stand-alone software, CD-ROMs, learning management systems, and e-simulations. This work has been largely project-based and has required the design and implementation of different types of evaluation processes for use across a range of disciplines during different stages of the various projects, encompassing evaluation at development, pilot, and full implementation phases of technology use. During this time, Mary has written numerous reports for funding bodies, co-authored a handbook on learner-centred technology evaluation, and published several papers in relevant journals and conference proceedings. Since 2007, Mary has worked as an Evaluation Consultant and her most recent work has been as an External Independent Evaluator for nationally-funded projects related to the use of educational technologies.

Luke Rogers completed his Bachelor of Computing (Hons) in 2009 at the University of Ballarat, with research on the application of simulating clinical scenarios in virtual worlds. Luke has been involved in designing and developing a series of Second Life multi-user virtual simulations and researching how these environments can optimise learning as part of a funded research project. Luke’s areas of expertise include discrete event simulation, simulating AI behaviours and Second Life physics/software engineering. Luke currently works with Telstra as a technical specialist for Voice and Data Networks, assisting in the research and development of an enterprise IP Multimedia Subsystem.

Ian Searle, following an extensive career in secondary education and 12 years in the IT industry as a senior consultant (business analysis and system architecture) and project manager, now holds the position of lecturer in the School of Business Information Technology and Logistics at RMIT University, Australia. Ian’s teaching focuses on hardware and operating systems and in particular, on innovative approaches to teaching Project Management to postgraduate students.

Rod Sims has worked in the technology and education field for over 30 years. During that period he has seen significant change in the technology we use and has written and presented about the design of learning environments to effectively integrate that technology. Rod has worked as both a Consultant in educational technology as well as designing and implementing undergraduate and postgraduate programs at the University of Technology Sydney and Southern Cross University, Australia. Over the last six years, Rod has been working as an Adjunct Professor with the US-based Capella University, with responsibilities for online teaching, course development and PhD supervision in the field of Instructional Design for Online Learning. Currently Rod is working with academic staff at the University of New England to enhance and revitalise a range of units through the implementation of online strategies and resources.

Virpi Slotte works as Content Development Manager at AAC Global. She is responsible for pedagogic issues related to creating content, evaluating and implementing digital learning solutions. She has carried out research on educational issues, mainly in the quality of learning and training in corporate environments. She is an Author of several publications including educational articles and chapters in books, also of textbooks in study strategies. She took her PhD degree at the University of Helsinki, Finland.
Terry Stewart is a Teaching Consultant at the Teaching and Learning Centre (Manawatu Campus), Massey University. Terry Stewart has used and developed tools for scenario-based learning within his own discipline of plant protection for over 21 years, an activity which won him a New Zealand Tertiary Teaching Award for Innovation in 2003 and a Distance Education Association of New Zealand (DEANZ) award in 2008. When not teaching undergraduate students in the Institute of Natural Resources he spends time as a teaching consultant facilitating and promoting scenario-based learning at Massey University generally. He is skilled at using SBL interactive, a tool which he had some conceptual input into designing.

Matt Taylor is Director of The University of Queensland’s Centre for Biological Information Technology (CBIT). With 14 years experience in the IT industry, Matt has been involved in numerous software development and IT projects. His particular interests are in expert systems, problem based learning (PBL) and natural language processing.

Ian Warren is a Senior Lecturer in Criminology at Deakin University. Ian has received numerous University and national awards for his uses of technology to enhance learning and teaching on current issues associated with criminology, including drugs and crime, and the use of virtual worlds to simulate crime-prone urban environments. He is involved in ongoing research into the regulation of virtual worlds, the privacy implications of new technologies and the educational uses of multi-user social software platforms.

Hossein Zadeh is a Senior Lecturer and Director of the Master of Business Services Sciences degree program in the School of Business Information Technology and Logistics, RMIT University, Australia. He has researched and published in Multicrew Optimisation and Decision Support Systems. His research, linking the diverse fields of engineering, management, and IT has attracted over $1,000,000 in grants, awards, scholarships and contracts, from organisations such as the Australian Research Council and the Department of Defence. His current research focuses on educational and healthcare services as pillars of most modern economies. Hossein is a continuing Reviewer of multiple international journals and conferences, and has been a Session Organiser and Reviewer of IEEE Aerospace Conference since 2002. Hossein’s teaching focuses on eBusiness technologies and innovative approaches to teaching Project Management to postgraduate students.