

*SECTION IV:
ABOUT THE
AUTHORS*

AUTHORS' BIOGRAPHICAL NOTES

Rigoletto Bartoli is staff member of CNUCE - Consiglio Nazionale delle Ricerche, where has the responsibility of maintaining DBMS and Information Retrieval systems. As senior system analyst his interests cover Graphical user Interfaces, Hypertext and Hypermedia. He contributed to many papers published in the proceedings of national and international conferences.

Howard Besser is Visiting Associate Professor at UC Berkeley's School of Information Management & Systems, where he teaches, does research, and supervises a grant examining a multi-institution digital library project. He also holds an appointment at the Berkeley Multimedia Research Center. From 1994-96 he was on the faculty of the University of Michigan's School of Information where he headed a committee developing a curriculum in multimedia and digital publishing. He still holds an Adjunct Associate Professor position there. He has also been an Assistant Professor at the University of Pittsburgh. Dr. Besser's three main interest areas are Multimedia Databases (particularly in cultural institutions), the social effects of information technology, and the development of new ways to teach with technology. He is currently working on a book on Image Databases as part of the ASIS Monograph series, as well as a book on the social effects of information technology. Under a grant from the Kellogg Foundation to the University of Michigan to revamp curriculum, Howard chaired a subcommittee that examined the creation and design of digital documents, and another committee that was designing a new Information Studies Media Lab

Jonathan Broadbent is a Cognitive Engineer in CB&J, a consultancy firm in Human Machine Interaction. He is in charge of the development of user interface prototypes and is currently developing applications for hand held devices. He obtained a Master of Science at the Department of Cognitive Science Edinburgh University in 1990.

Chris Dobbyn worked for 10 years as a lecturer in English Literature in Further and Higher Education colleges in the United Kingdom. In 1985, he obtained a Masters degree in Computation from the University of Manchester Institute of Science and

Technology and then worked for five years in the computer industry, as a consultant and eventually as a project manager, applying Artificial Intelligence techniques to commercial problems. In 1990 he joined the School of Computing and Mathematical Sciences as a Lecturer in Computation. His research interests include the modelling of biological neural networks, complex systems and expert systems.

Maria Economou is Assistant Curator responsible for Information Technology at the Pitt Rivers Museum of the University of Oxford. She has completed a DPhil at the University of Oxford on the use of interactive multimedia in museums and archaeological presentations. She has a degree in Archaeology from the University of Thessaloniki, Greece and an MA in Museum Studies from the University of Leicester. From September 1997 she will be Lecturer in New Technologies for the Humanities at the University of Glasgow.

Giuseppe Fresta is staff member of Consiglio Nazionale delle Ricerche, working initially at the Laboratory of Cosmic Physics and Related Technologies (LFCTR) in Milan, and afterwards at CNUCE. In the LFCTR he worked to graphical and statistical image processing, and also in the areas pertinent to Information Retrieval Systems, DBMS and Information Systems. Presently, as senior system analyst at CNUCE, his interests cover Graphical user Interfaces, Hypertext and Hypermedia. He contributed to many papers published in the proceedings of national and international conferences.

Franca Garzotto is Research Associate at the Department of Electronics and Information, Politecnico di Milano. She has a Degree in Mathematics from the University of Padova (Italy) and a Ph.D. in Computer Science from Politecnico di Milano. She has been active in the hypertext and hypermedia field since 1988. Her main research interests in these areas are: design models and methodologies, authoring tools, usability evaluation. She has been involved in various European research projects in the above fields. Franca Garzotto was tutorial chair of ECHT'90 and ECHT'92, and member of the program committee of the ACM Hypertext conference in 1991, '92, '93, '94, '96, '97, of the ACM Multi-

media Conference in 1995 and 1996, of ICHIM in 1995 and 1997. She served as Program Chair of the International Workshop on "Hypermedia Design", held in Montpellier - France in June 1995 (in cooperation with ACM SIGLINK, INRIA, CWI, and GMD). She served as Co-Chair of the International Workshop on "Evaluation and Quality Criteria for Multimedia Applications", held at the ACM conference on multimedia - MM'95 - in San Francisco - CA, November 1995.

Charlie Gere was originally trained as a fine artist. After finishing a master's degree in computing in design, from the Centre for Electronic Arts at Middlesex University, he joined the team working on the London National Gallery's Micro Gallery. He then worked on a number of multimedia projects as a designer and consultant, including British Telecom's prototype Video on Demand. In 1992 he was awarded a research studentship from the Centre for Electronic Arts at Middlesex University to study for a PhD looking at 'The Virtual Museum; Applications of Multimedia to Museums and Galleries'. His submission took the form of a thesis 'The Computer as an Irrational Cabinet' and the design of software developed for the representation of material and visual culture, as part of the 'Virtual Teaching Collection' Project at the University of Cambridge. He was awarded his PhD in February 1997. Since then he has worked as a consultant, writer and teacher, concerned with the relation between new technology, representation and material culture.

Guenther Görz is Professor of Computer Science (Artificial Intelligence) since 1989 at the University of Hamburg, since 1991 at the University of Erlangen-Nuremberg and member of FORWISS (Bavarian Research Center on Knowledge-Based Systems). Research stays at UCLA, Los Angeles and at CSLI, Stanford University. 1987—1989 visiting scientist at the LILOG project (Linguistic and Logical Methods) of IBM Germany in Stuttgart. Organizer of several workshops and conferences on AI and Computational Linguistics.

Cynthia J. Goodman is the Former Director of the IBM Gallery of Science and Art, New York, and Acting Director and Chief Curator of the Contemporary Arts Center, Cincinnati, Ohio. Goodman was most recently co-director with Nam June Paik of

the InfoART Pavilion at the Kwangju Biennale in Korea. She participated in the John Paul Getty Trust Museum Prototype Project in the mid-nineteen-eighties as a Research Associate at the Solomon R. Guggenheim Museum, New York. In 1990, she was appointed Fellow at the Center for Advanced Visual Studies at MIT, where she was Director of ArtTransition '90. She has served as juror for the annual SIGGRAPH Art Show and was one of the directors of Artec '91, the first international biennale of art and technology. Her publications include *Hans Hofmann*, Abbeville Press, 1986; *Digital Visions: Computers and Art* (Harry N. Abrams, New York, 1987); *InfoART*, Rutt Video Interactive, 1996, CD-ROM for Macintosh and PC; and *InfoART*, Rutt Video Interactive, 1997, videotape. She is currently Guest Curator at the Museum of Fine Arts, Houston.

Susan Hazan is Head of the Multimedia Education Unit, of the Ruth Youth Wing of the Israel Museum in Jerusalem. She has created museum multimedia applications and teaches hands-on multimedia workshops for artists, teachers, children and museum staff. She was responsible in 1995 for establishing the Israel Museum web site, serves as the webmistress and is currently developing educational interactive activities for the web site.

Deborah Seid Howes is an Associate Museum Educator at The Metropolitan Museum of Art in New York City, where she explores the educational potential of the electronic environment for the Museum and its public. In the decade of her involvement in electronic education she has participated in the creation of eight interactive computer programs for four different museums, including "With Open Eyes: Images from the Art Institute of Chicago," the interactive videodisc that preceded the popular CD-ROM, both produced by The Art Institute of Chicago and The Voyager Company. Her production and management of educational information for The Metropolitan Museum of Art's Web site (<http://www.metmuseum.org>) and her experience as an electronic classroom teacher inspired and informed her ICHIM '97 contribution.

James Johnson is the Natural History Museum's New Media Developer. He designs multimedia, web and virtual reality systems for the museum, and advises the museum about new media issues.

Chris Jones is Professor of Geographical Information Systems at the University of Glamorgan. He took up this position in 1994 from a Lecturership in the Department of Geography at the University of Cambridge, having lectured previously in computer graphics at the University of Glamorgan. Prior to that he was employed on geological computing applications at BP Exploration and at the British Geological Survey. He graduated in geology, from Bristol University, and received a PhD, from the University of Newcastle upon Tyne, for research on periodicities in fossil growth rhythms and the history of the Earth's rotation. Current research interests include the use of geographical information in hypermedia for public information access; multiscale spatial databases; the computer reconstruction and visualisation of fossils; and automated cartographic design with regard to map generalisation and automated text placement.

Paul Kahn is President and a co-founder of Dynamic Diagrams, Inc., an information design studio in Providence, Rhode Island whose clients include West Publishing, Wellington Management Group, Mystic Seaport Museum, Merrill Lynch, Encyclopaedia Britannica, and IBM. He worked at Brown University's Institute for Research in Information and Scholarship (IRIS) from 1985 to 1994 where he served as project manager and director, developing educational hypertext applications. He has a degree in literature from Kenyon College and has published essays on Chinese poetry in translation and a modern English version of *The Secret History of the Mongols*. He has served on the program committees for the Hypertext conferences sponsored by the Association of Computing Machinery (ACM), the Interface Design Jury for Industrie Design Forum Hannover, and is a member of the American Center for Design (ACD) and the Mongolia Society. Mr. Kahn currently teaches part-time in the graphic design department of Rhode Island School of Design.

Magdalena Kasman is analyst and business manager of Dynamic Diagrams, Inc. She studied art history at Brandeis University and received an MA in art history / arts administration from Temple University. She has worked in the Sales and Marketing Department at Jack Lenor Larsen, Inc., a textile and furniture design company, and had internships at the American Federation of Arts, New

York, and the Museum of Art at the Rhode Island School of Design.

Alistair Knott graduated in Psychology and Philosophy from Oxford University in 1989. He received a Masters degree in Knowledge-Based Systems from the department of Artificial Intelligence at Edinburgh University in 1991, and obtained his PhD from the same department in 1995, with a thesis on the classification of conjunctive phrases (phrases such as 'and', 'but' and 'because'). Since then, he has been working at Edinburgh University's Human Communication Research Centre. His current research interests are at the interface between computational linguistics and discourse linguistics.

Krzysztof Lenk is Director of Design and a co-founder of Dynamic Diagrams, Inc.. He has been presenting seminars and tutorials on visual aspects of design for the computer environment at a number of international conferences and for corporate clients. Since 1982 Mr. Lenk has been a professor of graphic design at the Rhode Island School of Design, specializing in typography, information graphics, and design for the computer screen. The work of his information design students has been published in *Graphis* 238 (Switzerland), *The Penrose Annual '76* (London), and a number of other international design journals. He was an IBM fellow at the Aspen Conference in 1983. Before coming to the United States, he worked for clients in Poland, France, and Germany on a variety of publication design projects. He holds an MFA in graphic design having studied at the Academy of Fine Arts in Warsaw and Cracow, Poland. Mr. Lenk's name is included in *Contemporary Designers*, a listing of the top 600 international designers in all design fields.

Mario Loffredo is a Young Researcher at CNUCE - Consiglio Nazionale delle Ricerche, where his main interests cover the software engineering, DBMS and Information Retrieval System, especially the area of the Z39.50 standard. He has a degree in Computer Science from the University of Pisa. He contributed to several papers published in the proceedings of national and international conferences.

Andrea Marchetti is a Young Researcher at CNUCE - Consiglio Nazionale delle Ricerche, where his main activities are involved in the study

of hypertext/hypermedia systems. Previously he worked at IEI on several projects regarding Computer Vision and Scientific Visualization. He has a degree in Computer Science from the University of Pisa. His research interests include security and networking.

Patrizia Marti is a Research Fellow at the University of Siena in Italy. From 1991 to 1996 she was Research Assistant in ALENIA, Information Technology Lab., Rome, Italy where she coordinated a number of international projects in the domain of decision support systems, multimedia and user centered design.

Chris Mellish is a reader in the Department of Artificial Intelligence at the University of Edinburgh. He graduated as a mathematician from Oxford University in 1976 and was awarded a PhD by the University of Edinburgh in 1981. After further postdoctoral work, he moved to the University of Sussex to take up a lectureship in Computing and AI in the Cognitive Studies Programme. In 1987, he returned to Edinburgh as a lecturer in the Department of AI. From 1985 to 1990 he was supported by an SERC Advanced IT Fellowship. His main interests are logic programming and natural language processing. He is co-author of a textbook on Prolog and of three versions of a textbook on natural language processing, as well as having been on the editorial boards of the *Journal of Logic Programming*, *Natural Language Engineering* and *Computational Linguistics*. Dr Mellish was the Programme Chair for IJCAI, the major international AI conference, in 1995.

Torsten Nilsson, age 46, was born in the southern part of Sweden. He studied Informatics and philosophy of science at Umeå university where he graduated 1986. Since then he has been employed at the department of Informatics as a lecturer and researcher/doctoral student. Since 1992, he has worked part time at the regional museum, Västerbottens museum, developing museum databases. His research has been directed at geographical information systems, competence development and lately at museum computerization.

Elena Not graduated in Computer Science at the University of Udine (Italy). Since 1993 she has been working as a researcher at IRST (Trento) in

the Cognitive and Communication Technologies Division. Her main research interests focus on natural language generation, and in particular on issues of discourse structure and cohesion and on the integration of generation techniques in flexible hypermedia systems.

Jon Oberlander currently holds an EPSRC Advanced Fellowship at the University of Edinburgh. He has two university degrees: BA in Philosophy (Cambridge, 1980—83), PhD in Cognitive Science (Edinburgh, 1983—87) and was a postdoctoral fellow with the British Academy 1987—1990. He has served as principal investigator on research projects funded by the UK's EPSRC, ESRC and MRC, the USA's McDonnell Foundation, and NATO. His interests lie in the intersection of computational linguistics, and cognitive science. Oberlander is the author and co-author of around thirty academic papers published in international journals and international conference proceedings, in the areas of cognitive science, natural language generation, and discourse linguistics and has served as a reviewer for journals and conferences in cognitive science and artificial intelligence.

Mick O'Donnell is currently a research associate at the University of Edinburgh. He holds three degrees from the University of Sydney: B. Economics (1984), B. Arts (hons.) (1987), and a PhD in Linguistics (1994). His PhD thesis was on the generation and parsing of sentences using Systemic grammar. His current research ranges over various areas of discourse theory and its implementation.

Paolo Paolini is Full Professor at University of Lecce (Italy) and Technical Director of HOC-Hypermedia Open Center at Politecnico di Milano. He has a Master and Ph.D. in Computer Science from the University of California at Los Angeles (UCLA). He has been active in the following research fields: data base modelling and systems, programming languages, distributed data bases, data bases views, hypertext and hypermedia models, hypermedia authoring systems, multimedia application development tools. He has been technical responsible of various European research projects in the above fields, with research grants from the European Commission. He served as General Chair of the ACM international conference on Hypertext and Hypermedia in 1992 (ECHT'92). He has been

member of the Program Committee of various editions of VLDB'xx, ACM ECHT'xx, and ACM HT'xx conferences, and is currently Associated Editor of ACM Transactions on Information Systems (TOIS).

Fabio Paterno has been permanent researcher at CNUCE-C.N.R. since 1986, where he is head of the User-centered Design Group. He is leading groups in CNR projects on: adaptive and effective user interfaces for museum systems and design of concurrent and cooperative user interfaces. His current work on engineering task models for user design is funded by international companies. He is the coordinator of the MEFISTO European Long-Term Research. His current research interests are in Design of Tools for User Interface Development and Evaluation and their application to case studies belonging to various application domain. More specifically, he developed an approach for designing User-Interaction Software Objects which was used for driving the implementation of a semantics-based toolkit for the design of user interfaces. Now an entire environment (the Interactive System Workbench) for supporting the various phases of the design, development and evaluation of multimedia user interfaces, starting from task specifications, has been developed in Java and it is being applied to develop multimedia user interfaces for museum systems and other applications. He has been member of the Programme Committee of the main international conferences on Interactive Systems Design and Formal Methods for Human-Computer Interaction. He is a member of the IFIP Technical Committee 13 on Human Computer Interaction.

Daniela Petrelli is a senior researcher at IRST. Since 1993 she has been working in the Cognitive and Communication Technologies Division. Her current main interests focus on human-computer interaction, and in particular on issues of multimodal, intelligent and flexible user interfaces. In the past she worked in the telecommunications field on CSCW (Computer Supporting Cooperative Work) systems.

Rosemary Phillimore has worked for twenty years in the computing industry in software development, including analysis, design and implementation of commercial and real-time systems. Companies she

has worked for include DEC, Apple and the FI Group. She is a specialist in software project management and was project manager for the system described in the paper.

Lenne Rold has an archaeology degree from Aarhus University and two years of computer science at Copenhagen University. She has been employed since 1987 as curator at the National Museum of Denmark. The central focus of her work is the analysis and design of electronic systems for documentation, research and public access to the museum's collections.

Oreste Signore is a Senior Researcher at CNUCE - Consiglio Nazionale delle Ricerche, where he has been project leader for the construction of an automated Catalog of Italian Cultural heritage. In this area, his main contribution has been the identification of a suitable and general data model. Prior that, he has worked on operating systems, information retrieval systems, database management systems, database and information systems design. He is author of many papers published in international journals and conference proceedings. His present interests cover user interface, hypertext/hypermedia and software engineering.

Oliviero Stock is head of the Cognitive and Communication Technologies Division at IRST (Trento). He has been President of the Italian Association for Artificial Intelligence (1992-1993 and 1994-1995), President of the Association for Computational Linguistics (1996) and chairman of the European Coordinating Committee for Artificial Intelligence (1992-1994). He has been on about forty program committees of international conferences, and member of the editorial board of some ten international journals. He is the author of more than hundred scientific papers, all on themes of artificial intelligence, natural language processing, intelligent interfaces, editor of six books, and an invited speaker at thirty international conferences.

Carlo Strapparava graduated in Computer Science at the University of Pisa (Italy). Since 1987 he has been working at IRST as a researcher in the Cognitive and Communication Technologies Division. He was responsible for the demonstration session at the Third Applied Natural Language Processing

of the ACL held in 1992 in Trento. His main research interests focus on the interpretation of natural language, discourse and topic structures, pragmatic modeling, multimedia, user modeling, knowledge representation, functional languages.

Kevin Sumption has worked for over six years as both a science and social history curator at a number of Australian museums. He is currently the Curator of Information Technology at the Museum of Applied Arts and Sciences (Powerhouse), and lectures in Design History and Theory and Research Methodology at the University of Technology, Sydney. Kevin has spent the last two years developing and managing a new computer-based education facility - the Information Technology Centre, and has published a number of education texts on computer aided design, computer animation and desktop publishing. He is currently working on an exhibition exploring the mystique of espionage culture and technology, and as part of his research for a Master of Letters at the University of Sydney, is examining the impact of new technologies on contemporary Australian museum practice.

Jenny Squires Wilker is Catalogue Editor at the Allen Memorial Art Museum at Oberlin College. Previously she has worked with databases in several museums, principally the Philadelphia Museum of Art. She has extensive publication experience at Print Collectors Newsletter and the Middlebury College Museum of Art. Ph. D., Institute of Fine Arts, NYU, 1996 (dissertation on Daumier's *Histoire Ancienne: French Classical Parody in the 1840s*).

Mary Zajicek has taught a range of computing subjects in Higher Education since 1987. She is leader of the Speech Project Research Group investigating the modelling of human uncertain reasoning in human computer speech dialogues and making the information in World Wide Web pages available in speech form. She holds a BSc in Mathematics from the University of Nottingham and a MSc in Computing from the University of Hertfordshire. She is a specialist in Human Computer Interaction and was involved in user requirements capture and interface design for the system described in the paper.

Massimo Zancanaro graduated in Computer Science at the University of Milano (Italy). Since 1993 he has been working as a researcher at IRST (Trento)

in the Cognitive and Communication Technologies Division. His main research interests focus on issues of multimodality and pragmatic interpretation of natural language.