

Curriculum Vitae of  
**OLIVIERO STOCK**

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## 1. PERSONAL DATA

Born: May 5, 1950, Trieste, Italy

Work address:: FBK-IRST, 38100 Povo (Trento). Tel. +39-0461-314313

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Citizenship: Italian

## 2. PRESENT POSITION

FBK-irst (formerly called ITC-irst) Senior Fellow; former director of ITC-irst, Center for Scientific and Technological Research, Trento, Italy.

*ITC-irst is a research institute active in fundamental and applied research. At the time of OS's directorship, it was structured in five Divisions: Cognitive Technologies and Communication, Interactive Sensory Systems, Automated Reasoning, Microsystems, Physical-Chemical Properties of Surfaces. Human resources included about one hundred scientists, twenty technicians, eight secretaries; additionally, about fifty young researchers were collaborating on specific project money.*

*Beside scientific results, under OS's directorship in the European competition in the Fifth Framework Program ITC-irst had 26 projects (acceptance rate of almost 50% of the proposals). ITC-irst total cost (expressed in euro) were: in 1998 and 1999 around 9 mill, in 2000 around 11 mill, and in 2001 around 14 mill. Besides "institutional" funds granted by the Autonomous Province of Trento, income coming through competition -European projects (normally covering 50% of the total costs) , industrial projects, special projects, grew from less than 2 mill in 1997 to over 3 mill. in 1998, to 3.5 mill 1999, over 5 mill. in 2000 and over 7 mill. in 2001. A number of spin- off companies were also established in the Trento area.*

Currently, director of the PER TE Project, sponsored by Trento RISE and concerned with Intelligent Persuasive Interfaces, and advisor to FBK-irst CIT director.

## 3. EDUCATION

"Laurea" degree in Mathematics, Università di Firenze, obtained in 1973-74 with thesis: Recursive Aspects of Linguistics

"Specialization" degree in Computer Science (at that time there was no PhD program in the Italian system and this was the most similar program), Università di Pisa, with research conducted at the Istituto per l'Elaborazione dell'Informazione of the CNR, Pisa. Thesis, December 1976: "ATNSYS: un sistema per l'analisi grammaticale automatica delle lingue naturali" (ATNSYS: a system for automatic grammatical analysis of natural languages), printed as report NI-B76-29 of Istituto per l'Elaborazione dell'Informazione.

Native speaker of Italian

Fluent in English and French

Some knowledge of German and Spanish

Basic knowledge of Dutch and Hebrew

## 4. RESEARCH THEMES

Oliviero Stock has developed his activity with a specific view of artificial intelligence. His goal has been to contribute to the development of a vision of computational technology that helps humans, both directly and indirectly, to improve the quality of their lives: the computational system has to make the effort to understand humans and not viceversa. Starting from a background in mathematics and computer science he has taken an interdisciplinary approach, studying in particular linguistics, cognitive science, and other humanities areas. With this prospect his research can be divided in four main themes.

A first theme, followed mainly from the specialisation thesis (1976) to the beginning of the Nineties, in which he worked mainly on strict natural language processing issues. He developed the first ATN parser for Italian, with a good coverage of the language, then worked on an original lexically based view of chart parsing. He then introduced the concept of bidirectional chart parsing, preserving the positive complexity characteristics of charts, but adding substantial flexibility to the algorithm.

A second theme, from the end of the Eighties on, was multimodal natural language processing. The idea was to develop a full paradigm of language based interaction, including syntactic, semantic, pragmatic processing integrated with visual aspects and direct manipulation. The concept was also to integrate in access to information goal-oriented behavior, typical of language, with a navigational modality. It was a concept well ahead of time, as these issues are becoming popular nowadays with the web. Important in this context was also the work on natural language generation, essential for providing personalised answers to the user. All this was possible, working with a substantial team that he could recruit at IRST in Trento. The realisation of the system *AlFresco* was the main context of development in this connection.

A third theme, with an applied orientation, started in the Nineties, linked to the above theme. The idea was that cultural heritage is potentially the greatest resource of Italy and will need the support of technology and at the same time it is a privileged field for exploring advanced intelligent user interfaces. With this in mind the focus of research went into mobile adaptive guides, with many innovative aspects, including presentation adaptation based on user modeling, automated cinematography, visit report generation. In recent time the emphasis was put on visitors coming in a small group, so very innovative aspects such as dramatic coordinated mobile presentations with feedback derived by sensors' data about visitors behavior, and a technological table designed for influencing the group behavior at the museum café after the visit, so that they discuss the cultural experience was introduced. The most complex realization were conducted in the *PEACH* project and in collaboration project with University of Haifa, including realisation at the Hecht archeological museum in Israel.

The fourth theme, started around 2000, and is concerned with novel aspects of interfaces. The idea is to go away from interfaces for operating machinery or interfaces fro services, but instead conceive a proactive role for them, such as influencing people attitude, mood, behavior. Basically this theme of research focuses on two topics: a) computational humor, meaning the automated production of some simple forms of wit and irony; and b) flexible persuasion technology, including, language based persuasion, group oriented persuasion (like the café table setting referred to above) and also investigation of the very important ethical issues involved. The first European project ever on humor *HAHA*Acronym was indicative of this effort, and the establishment of the new project *PER TE* (in the context of the activity of Trento *RISE*, partner of *EIT*), comprising language persuasion and defense from inappropriate persuasion, group oriented persuasion, interfaces for favoring sharing narratives in a situation of conflict, and computational ethics of persuasion is the basic reference for this theme.

## 5. AWARDS

*ECCAI (European Coordinating Committee for Artificial Intelligence) Fellow*, elected in the first series of *ECCAI* Fellows – 1999, "in recognition for pioneering work in the field of Artificial Intelligence and outstanding service for the European Artificial Intelligence community".

*AAAI (American Association for Artificial Intelligence) Fellow*, since 2006, "in recognition of his wide-ranging, significant contributions to research in computational linguistics and intelligent interfaces, serious work on computational humor, and dedicated service and leadership in support of the European AI community".

*James Chen Award for the Best Paper published in 2007 in UMUAI.*

O. Stock, M. Zancanaro, P. Busetta, C. Callaway, A. Krüger, M. Kruppa, T. Kuflik, E. Not and C. Rocchi ‘Adaptive, Intelligent Presentation of Information for the Museum Visitor in PEACH’ User Modelling and User-Adapted Interaction, Vol 17, n.3, pp. 257-304, 2007.

CHI “Best Paper Honorable Mention”

O. Stock, M. Zancanaro, C. Koren, C. Rocchi, Z. Eisikovits, D. Goren-bar, T. Weiss, ‘A Co-Located Interface for Narration to Support Reconciliation in a Conflict: Initial Results from Jewish and Palestinian Youth’ Proceedings of CHI 2008, 26th Computer-Human Interaction Conference, Firenze, 2008.

## 6. EMPLOYMENT HISTORY

Jan - Jun 1977: Università di Pisa.

May 1977 - Aug 1979: Olivetti Direzione Centrale della Ricerca. In the framework of the agreement between Consiglio Nazionale delle Ricerche (CNR)- Olivetti Pisa

Jul 1979- Dec 1980 Consiglio Nazionale delle Ricerche (CNR) in Pisa and Roma.

Jan 1981- Jan 1988 enrolled with tenure at CNR Institute of Psychology, Rome.

During 1982-1983 stage at University of California a Berkeley, Department of Computer Science, and at Xerox Palo Alto Research Center.

Since 1988 at Istituto per la Ricerca Scientifica e Tecnologica of Trento, with responsibility of research line in Natural Language Processing (10-11 researchers) and research line on Expert Systems (5-6 researchers).

Since 1994 head of the Symbolic AI Division, from 1995 called Cognitive Technologies and Communication Division.

September 1997 to end 2001 IRST Director (keeping the responsibility of the Cognitive Technologies and Communication Division). One year before finishing OS announced he would not be available for another mandate but accepted the request to go on for one year.

In 2002 he decided to pass the responsibility of the Division to his deputy.

Since April 1, 2002 Senior Fellow at ITC-irst (now FBk-irst) Direction.

## 7. EUROPEAN PROGRAMS

### a) National expert for the European Union VII FP (2007-2013) ICT Committee

Member of the group of four experts for the ICT Committee in Bruxelles (the others being Prof. G. Ausiello, Prof. M. Ajmone Marsan, Dr. A. Mascioli) appointed by the Italian Minister for University and Research.

*The ITC Committee role is to collaborate to the definition and monitoring and adjusting of the operations of the WorkProgramme for Information and Communication Technologies in the Seventh Framework Programme.*

### b) Consultant for European Union

“Expert” involved in the definition of the workplans for the IV and V and VI Framework Programmes, European Commission, General Directorate XIII, and selection of proposals, Cognitive Systems, Framework VI Program.

### c) Projects

The following European Projects have been proposed with his contribution and have become operative in the IRST Division of his direct competence, with a European net funding for IRST of several million euro.

#### Third Framework Program:

Language Research and Engineering: GIST. IRST was prime contractor. Automatic Generation of multilingual instructional texts for the citizen. OS is scientific advisor. 1993-1996.

Language Research and Engineering: TRANSTERM. Terminology and relation between lexicon and knowledge bases. 1993-1994

MLAP: TAMIC. Interaction in Natural Language for the access to Public Administration information. Preliminary project with prototype in Trento at National Pension Institute 1994-1995

ESPRIT: CHARADE. Intervention planning in case of environmental crisis (woodland fires) 1993-1995.

#### Fourth Framework Program:

ESPRIT: CARICA. Experimentation with firemen of case-based reasoning techniques 1995-1996.

Language Engineering: FACILE. Information classification and extraction from texts through deep linguistic analysis combined with shallow methods. 1996-1998.

Language Engineering: TAMIC-P. Development of TAMIC for the welfare sector. The National Pension System was the prime contractor with the direct support of its General Director. OS is the scientific advisor for the project coordinator. 1997-1998

ESPRIT Intelligent Interactive Interfaces: HIPS. An interactive tool for visit of a physical space and an information space. The system is based on audio hypertexts, user modelling and automatic user position localisation. 1997-2000

In the Fifth Framework Program ITC-irst participated to 26 projects as coordinator or partner (acceptance rate of almost 50% of the proposals).

OS participated directly to the development of these projects:

Human Language Technologies: CLASS. The project is composed of four clusters based on reference Institutes in Europe. IRST is reference for Intelligent and Interactive Information Presentation. OS is cluster coordinator.

Future Emerging Technologies: HAHAAcronym. The first European project ever dedicated to Computational Humor. It includes the development of a prototype for realizing ironic acronyms. OS is project coordinator

RENAISSANCE. Project dedicated to the development of cultural games with intelligent components.

#### Sixth Framework Program:

HUMAINE. Network of Excellence on emotions and computing. OS is member of steering board and coordinates WP 8 on Emotions in Communication and Persuasion.

### d) European Institute of Technology

Member of the Executive Steering Board of EIT ICT Labs, the Knowledge Centre for ICT of the European Institute for Innovation and Technology (2012-)

One of founders of Trento-RISE and the Trento node of EIT ICT\_Labs

## 8. NATIONAL AND OTHER PROJECTS BASED ON PUBLIC FUNDS

### a) Coordinator

Co-coordinator of the National CNR Strategic Project “Artificial Intelligence”, 1985.

Coordinator of the National CNR Strategic Project “Artificial Intelligence”, 1986 and 1987.

*The Strategic Project “Artificial Intelligence” was the first systematic initiative of CNR in Artificial Intelligence. It was part of the area Information Technology and was organized in 9 operational units in various CNR Institutes. The development fields were: knowledge representation, NL dialog systems , planning for robotics, expert systems development methodology.*

Member of the Coordinating Committee of the National Project TAL -Trattamento Automatico of the Lingua – (Automated Natural Language Processing), 1999-2001

### b) Head of CNR operational units

CNR Strategic Project “Man-Machine Interaction” 1985, CNR Strategic Project “Expert Systems in Medicine” 1985, CNR Strategic Project “Artificial Intelligence” 1986, CNR Strategic Project “Expert Systems in Medicine” 1986, CNR Strategic Project “Artificial Intelligence” 1986, Progetto Finalizzato Trasporti of the CNR, 1984-1986, CNR Finalized Project “Preventive and rehabilitating Medicine” 1984-1985, CNR Special Project “Planning” 1992-1993, CNR Finalized Project “Computer Systems and Parallel Processing” 1992-1994

### c) Coordinator of other large, specifically funded projects

Coordinator of the PEACH (Personal Experience with Active Cultural Heritage) Project , with a budget of 5.248 million euro, aimed at building technology for cultural heritage appreciation. The project involves four ITC-irst Divisions and DFKI, Saarbruecken, 2001-2005.

Coordinator of the TICCA (Technologies for Intelligent Communicating and Cooperating Agents) Project, funded by the Autonomous Province of Trento and CNR with a total budget of around 800,000 euro. Partners were ITC-irst and Istituto di Scienze e Tecnologie della Cognizione, CNR, 2001-2004.

Coordinator of the Collaboration Project between University of Haifa, Caesarea Rothschild Institute for Interdisciplinary Applications of Computer Science and ITC-irst, aimed at building AI Technologies for Human Development, with a total budget of 1,200,000 euro, 2003-2006.

Coordinator of the FIRB Italian-Israeli Project “Intelligent Technologies for cultural visits and mobile education”, funded by MIUR for the Italian side. Total budget 3.541 million euro. Partners: ITC-irst, University of Trento, University of Haifa, Bar-Ilan University, 2006-2009.

## 9. SERVICE IN ASSOCIATIONS AND INSTITUTIONS

### a) Service in scientific associations

President of the Association for Computational Linguistics, 1996

President of the Associazione Italiana per l'Intelligenza Artificiale (AI\*IA), 1992-1993 and 1994-1995

Chairman of the European Coordinating Committee for Artificial Intelligence (ECCAI), 1992-1994

Vicepresident of the Association for Computational Linguistics, 1995

Chair of the Nominating Committee of the Association for Computational Linguistics, 1999 (Member of Committee, 1997-1999)

Vicepresident of the European Coordinating Committee for Artificial Intelligence (ECCAI), 1990-1992.

Secretary of the European Coordinating Committee for Artificial Intelligence (ECCAI), 1984-1986 and 1986-1988.

Member of the Board of Directors of the Associazione Italiana per l'Intelligenza Artificiale elected for 1988-1989, 1990-1991, 1992-1993, 1994-1995, 1996-1997, 1998-1999 and co-opted in 2000-2001.

Member of the Scientific Advisory Committee of ACL Dialogue Special Interest Group, SIGDIAL, 1998-1999.

Member of board of the Working Group for AI of the AICA (Italian Computer Science Association), 1985-1987.

Representative of the Working Group for AI of the AICA at ECCAI, 1985-1987.

Representative of the Associazione Italiana per l'Intelligenza Artificiale at ECCAI, 1988-2003.

Representative of the Associazione Italiana per l'Intelligenza Artificiale at the Computer-Human Interaction Group of the Association for Computer Machinery.

President of the Committee for the “Intelligenza Artificiale” Prize for young researchers (L. 10.000.000) by AI\*IA, 1997

Member of the Committee for the “Intelligenza Artificiale” Prize for young researchers (L. 10.000.000) by AI\*IA, 1998

President of the Committee for the “Marco Somalvico” Prize for young researchers by AI\*IA, 2008

Member of the Committee for the Best European Artificial Intelligence Dissertation Award, established by ECCAI, 2008, 2009, 2010, 2011, 2012, 2013, 2014,

## **b) Board member of scientific institutes**

Member of the Board of Governors of the University of Haifa, 2004-2007, 2007-2010, 2010-2013

Member of the Scientific Advisory Board of DFKI, the German Institute for Artificial Intelligence, Saarbruecken, 2004-2006, 2007-2009, 2010-2012, 2013-2015.

Member of the International Advisory Board of COLLATE, the German Competence Center in Language Technologies, Saarbruecken, since 2001.

Member of the International Scientific Advisory Board of CATCH, the Dutch initiative for Research in Technologies for Cultural Heritage (2005-2014)

Member of the Scientific Advisory Board of the Caesarea Rothschild Institute for Interdisciplinary Applications of Computer Science, University of Haifa (2005-2008)

Member of the Advisory Board of the Research Institute for Computer Science of the Bar-Ilan University of Tel Aviv, 1993-1995.

Appointed member of the Scientific Council of the Istituto per l'Ingegneria Biomedica of the CNR for 2002-2005.

Appointed member of the Scientific Council of the Istituto per le Scienze e Tecnologie della Cognizione of the CNR., for 2002-2005.

Member of the Scientific Council of the Istituto per Ricerche di Dinamica dei Sistemi e Bioingegneria (LADSEB) of the CNR of Padova, 1987-1991, 1992-1996, 1997-2001.

Member of the Committee for the promotion of scientific relations between CNR - National Council for Research and IBM, 1987.

### **c) Other functions**

Reviewer of scientific projects for the National Science Foundation (USA)

Reviewer of NATO workshop proposals

Reviewer for the Association for Computing Machinery Doctoral Dissertation Award

Member of the Technical-Scientific Committee of the Project for the Italian translation of the Babylonian Talmud. 2014-

Member of the Scientific Advisory Board of Prosecco., FET, 2013-

Member of the Italian delegation to the bilateral Italian-German meeting for the development of scientific relations between Italy and Germany, Banz Abbey, 1998.

Reviewer for the Italian Ministry of Research and University (MURST and MIUR) of projects of national interest

Member of steering group of the Commissione "Informatica scienze sociali and decisioni of governo" of the Consiglio Italiano per le Scienze Sociali nel 1984-1985.

Member of Working Group per la promozione delle Scienze Cognitive. Comitato Tecnologico of the CNR 1983.

Member of gruppo di studio per i Sistemi Esperti in Medicina, Comitato Tecnologico of the CNR 1984.

Responsible of Osservatorio Internazionale of AI\*IA Notizie, Periodico della Associazione Italiana per l'Intelligenza Artificiale, 1988-1990.

Member of Committee for the definition of the International Center for High Technology and New Materials, Miramare, Trieste, 1988.

Member of many Committees for public selections at CNR, l'Istituto Trentino of Cultura, for R1, R2 and R3 positions.

President of Committee for public selections for R2 positions (Primo Ricercatore) at IRST, 2000.

Member of the Committee for public selections for Dirigente di Ricerca of the CNR, Istituto of Psicologia of the CNR, Roma, 2002.

Evaluator for assigning the title of Research Fellow DFKI, Saarbruecken, Germany, 1998, 2003.

## **10. CONSULTANT TO CORPORATIONS**

Scientific advisor to Finmeccanica for Human-Machine Interaction (in the 1980's)

Consultant, among other companies, for Olivetti, Tecsiel (in the 1980's)

IRST coordinator for industrial contract with FINSIEL about automatic generation of texts starting from diagrams, (in the 1990's)



## 11. UNIVERSITY ACTIVITY

### a) Courses taught

*Complements of Formal Systems* Specialization Course in Systems Engineering and Computer Science, University of Rome. Academic Years 1983-84 and 1984-1985

*Techniques of knowledge representation, logical-deductive mechanisms* University of Pavia, “Corso di Laurea” in Electronic Engineering, Academic Year 1984-1985

*Knowledge Representation*. Research Doctorate in Informatic Engineering and Systemistics at the Department of Computer Science and Systemistics, University of Rome, Academic Year 1985-1986.

*Artificial Intelligence and Natural Language Processing* (in English) Specialized Course at the International School of Advanced High Studies (SISSA), Ministry of Education, Trieste, Academic Year 1987-1988.

*SISSA is an institution of excellence of the Ministry of Education, similar to the Scuola Normale Superiore of Pisa and devoted to Physical Sciences. Its graduate students, from all over the world, receive, after 4 years, a Ph.D title recognized at an international level..*

*Natural Language Processing* integrative of the course on Artificial Intelligence, University of Rome La Sapienza, Corso di laurea in Engineering, Academic Year 1992-1993.

*Natural Language Processing* Module for “Corso di Laurea” in Communication Sciences, University of Siena, Academic Years 1996-1997, 1997-1998, 1998-1999.

*Chart parsing and flexible directionality* Lecturer at the Wilem Mathesius Course of the Charles University of Praha, 1997.

*Topics in intelligent interactive information presentation* Lecturer at the Wilem Mathesius Course of the Charles University of Praha, 2001

*These courses are addressed to Doctorate students and researchers from East Europe on themes of natural language processing, with lecturers from excellence centers in Europe and in the United States.*

*Natural Language Processing* Module at Doctorate in Computer Science University of Pisa, Academic Year 2000-2001.

*Natural Language Processing* (in English) International Graduate School in Information and Communication Technologies, University of Trento Academic Years 2001-2002, 2002-2003, 2004-2005.

Lecturer at *Fundamentals of Human Language Technology* (in English) International Graduate School in Information and Communication Technologies, University of Trento, Academic Year 2006-2007

Lecturer at the Master in Communication and institutional organization by means of advanced technologies. Superior School for Economics and Finances, Roma, Academic Year 2002-2003.

*Intelligenza Artificiale*, Corso di Laurea in Tecnologie della comunicazione e interfacce, University of Trento, Academic Year 2010-2011

*Intelligent User Interfaces for Ubiquitous Cultural Heritage Exploration*. Course at the Doctorate on ICT, University of Trento Academic Year 2013-2014.

Also:

Visiting Professor at University of Haifa, 2009-2011

Member of the Executive Board of the Committee on Graduate Studies of the International Graduate School in Information and Communication Technologies, University of Trento, 2001-2005.

Member of the selection committee, first round of candidates International Graduate School in Information and Communication Technologies, University of Trento 2001

### **b) Thesis advisor and evaluator**

Thesis advisor for “laurea” degree (mainly in Computer Science, also in Engineering, Physics, and Communication) at various Universities: Pisa, Milano, Trieste, Udine, Siena, Bologna, Napoli. M.Sc. thesis advisor at University of Haifa.

Member of Committee for doctoral thesis (introduced in the Italian University System in the Eighties) at: Roma La Sapienza, Roma Tor Vergata

"Opponent" of doctoral thesis of Arne Jonsson, Dept. of Computer and Information Science, Univ. of Linköping, Sweden, 1993.

Vocal de Tribunal Para el Doctorato of Francisco Ribas. Università de Catalunya, Barcelona, 1995.

Member of doctoral thesis committee of Sabine Geldof, University of Antwerpen, Belgium, 2000.

Doctoral Thesis Advisor of Marco Guerini and of Silvia Rossi, Information and Communication Technologies, Università di Trento, 2006 and of Shlomo Berkovsky, University of Haifa, 2007, Co-advisor for the thesis of Alessandro Valitutti, Università di Trento, 2009.

### **c) Evaluator of candidates to academic positions**

Evaluator for the hiring of an “Associate Professor with tenure”, Dept. of Computer Science, University of Colorado at Boulder, 1994

Evaluator for a "permanent faculty member in computer science in the Division of Applied Sciences" Harvard University, 1996.

Evaluator for “possible promotion of Professor X to the rank of Full Professor”, Department of Computer Science of the Columbia University, 1997.

Evaluator for “promotion of Professor X to Associate Professor”. Ben Gurion University of the Negev, 1999.

Evaluator for the hiring of a Professor of Communication Studies. NorthWestern University, 2002

Evaluator for the hiring of a full Professor, University of Aberdeen, 2003

Evaluator for the hiring of a senior lecturer, University of Haifa, 2003

Evaluator for the hiring of a senior lecturer, Bar Ilan University, 2003

Evaluator for the reappointment of an Associate Research Professor at Carnegie Mellon University, 2005.

Evaluator for the hiring of a Full Professor at the University of Kaiserslautern, associated with a director position at DFKI, 2007.

### **d) Other courses**

Various courses at CRAI of Cosenza, CNR, Fondazione Bordoni, Scuola Superiore Reiss Romoli etc.

**e) Direction of schools**

Scientific Director of 'Summer School on Temporal Reasoning', Istituto Mitteleuropeo of Cultura, Bolzano 1992.

Scientific Director of 'School on Natural Language Processing and Multilingualism', Istituto Mitteleuropeo of Cultura, Bolzano 1993.

Scientific Director of 'School on Spatial Reasoning', Istituto Mitteleuropeo of Cultura, Bolzano 1995.

Lecture Series in Cognitive Science: Metaphor and Analogy, Trento 1997. Organizer with Douglas Hofstadter and Achille Varzi.

**f) People who worked in his group that got an official academic position**

Fabio Ciravegna, Professor University of Sheffield

Alessandra Giorgi Professore Ordinario Univ. di Venezia

Alfonso Gerevini Professore Ordinario Univ. di Brescia

Giorgio Satta Professore Ordinario Univ. di Padova

Achille Varzi Professor, Columbia University

Cristina Conati Associate Professor University of British Columbia

Giuseppe Carenini Associate Professor University of British Columbia

Vieri Samek Reader University College London

Lucia Tovenà Professeur Université de Paris VII

Daniela Petrelli Associate Professor University of Sheffield

Enrico Franconi Professore Associato Univ. di Bolzano

Francesco Ricci Professore Associato Univ. di Bolzano

Alessandro Artale Professore Associato Univ. di Bolzano

## 12. EDITORIAL BOARD MEMBER

### a) International journals and book series

Editor in Chief of Intelligenza Artificiale, the international journal of the AI\*IA, IOS Press. (2010-)

Associate Editor of ACM Transactions on Interactive Intelligent Systems, Association for Computing Machinery (2012-)

Associate Editor of Applied Artificial Intelligence: An International Journal, Taylor and Francis. (1993-)

Editorial Board member of Computational Linguistics . MIT Press. (1991- 1993)

Editorial Board member of Journal of Artificial Intelligence, Elsevier (1996-2006)

Editorial Board member of AI Communications (1990-2000), IOS Press. Area editor for Natural Language Processing since 1996.

Editorial Board member of Journal of Natural Language Engineering Cambridge University Press. (1994-2004)

Editorial Board member of Machine Translation Kluwer Academic Publishers. (1996-1998)

Editorial Board member of Informatica, An International Journal of Computing and Informatics Slovene Society Informatika. (1994-)

Member of the Advisory Board (2007-); Editorial Board member of Information Technology and Tourism Cognizant Communication Corporation (1998-)

Editorial Board member of Electronic Transactions on Artificial Intelligence (1997-)

Editorial Board member of Artificial Intelligence Review Kluwer Academic Publishers (1997-)

Editorial Board Member of Meaning Processing, an on line journal. (2008-)

Advisory Board member of Cognitive Science Quarterly Hermes Science Publications (2000-)

Scientific Committee member of In Cognito, Revue francophone internationale en Sciences Cognitives (2002-)

Advisory Board member of Israeli Journal of Humor Research. An International Journal (2011-2013)

Editorial Committee member of the “Special Issue” on Tailored Information Delivery of the Revue d'Intelligence Artificielle (2003)

Advisory Board member of the *Book Series on Cognitive Technologies*, Springer Verlag (2002-)

Editorial Board Member of *AAAI Press*, established by The American Association for AI and MIT Press (2005-2007)

International advisory board member of the book series *Topics in Humor Research*, Benjamins, Amsterdam (2012-)

Also: Editorial Review Board member of Readings in Intelligent User Interfaces, Morgan Kaufmann, Menlo Park, Ca (1997)

### b) National journals

Member of the Scientific Board of Intelligenza Artificiale, Rivista dell' Associazione Italiana per l'Intelligenza Artificiale (2004 -2010)

Member of Scientific Board of Networks, journal in philosophy of artificial intelligence and cognitive sciences (2002-)

Member of the Scientific Board of Ergonomia (2006-)

Medicina e Informatica (1986 -1990)

### **13. CONFERENCE OR WORKSHOP PROGRAM CHAIR**

Interazione Uomo - Macchina Intelligente, CNR, Roma, 1984.

Conference of the Progetto Strategico Intelligenza Artificiale of the CNR e del Progetto d'interesse nazionale Architetture Software Sistemi Intelligenti of the MPI. Politecnico of Milano, 1986 Co-chair with Luigia Carlucci Aiello

Final conference of the Progetto Strategico Intelligenza Artificiale e del Progetto d'interesse nazionale Architetture Software Sistemi Intelligenti of the MPI. CNR, Roma, 1987 Co-chair with Luigia Carlucci Aiello

ECAI-90, Ninth European Conference on Artificial Intelligence- Area Chair: natural language processing-Stockholm, 1990

Workshop NATO: Computational Theories of Communication - Castel Ivano (TN) Novembre 1990. Co-chair of the program committee with Andrew Ortony and Jon Slack

Third Conference on Applied Natural Language Processing of the Association for Computational Linguistics, Trento 1992. Co-chair of the Program Committee with Lyn Bates

Third International Workshop on Natural Language Generation, Castel Ivano 1992 Co-chair of the program committee with Robert Dale, Ed Hovy and Dietmar Roesner

Bilateral Symposium between Israel and Italy on Artificial Intelligence, promoted by CNR and by the Israeli Ministry for Science and Technology, Venezia 1996. Co-chair of the Program Committee with Marty Golumbic and Luigia Carlucci Aiello

ANLP-2000 Conference on Applied Natural Language Processing of the Association for Computational Linguistics, Seattle, 2000. Area Chair for Monolingual Text Processing.

AH-2000 First International Conference on Adaptive Hypermedia, Trento 2000. General Chair

IPNMD-2001. International Workshop on Information Presentation & Natural Multimodal Dialogue, Verona, 2001. Program co-chair with Ole Bernsen.

The April Fools' Day Workshop on Computational Humor, Trento 2002. Program Chair.

The Italian-Israeli Forum on Computer Science: Research and Applications of Artificial Intelligence, Tel Aviv 17-18 June 2003, Haifa 19 June 2003. Program co-coordinator, with Martin Golumbic.

Artificial Intelligence Research and Innovative Technologies for Human Development. Workshop of the ITC-IRST University of Haifa Collaboration, Trento, February 9-11, 2004. Program co-coordinator, with Martin Golumbic.

INTETAIN-2005 International Conference on Intelligent technologies for Interactive Entertainment, Madonna di Campiglio, November 2005. Program co-chair with Mark Maybury and Wolfgang Wahlster.

IUI-2007 International Conference on Intelligent User Interfaces, Honolulu, 2007. Associate Chair

PATCH-2007 International Workshop on Personalization Enhanced Access to Cultural Heritage, in conjunction with UM'2007, Corfu, 2007. Workshop co-coordinator, with L. Arroyo, T. Kuflik and M. Zancanaro.

PATCH-2008 Second International Workshop on Personalization Enhanced Access to Cultural Heritage, in conjunction with AH-2008, Hannover, 2008. Workshop co-coordinator, with L. Arroyo, T. Kuflik and M. Zancanaro.

IUI-2014 International Conference on Intelligent User Interfaces, Haifa 2014. General Co-Chair with Tsvi Kuflik

## 14. PROGRAM COMMITTEE MEMBER

### a) International conferences

Second Conference of the Association for Computational Linguistics, European Chapter, Geneva, 1985

Artificial Intelligence in Medicine, Pavia, 1985

Fourth Conference of the Association for Computational Linguistics, European Chapter, Manchester, 1989

ACAI 89 Advanced Course on Artificial Intelligence, sponsored by European Coordinating Committee for Artificial Intelligence, Zurich, 1989

Tutorial chair at Third Computational Intelligence Conference. Milano, 1990

Avignon -91, Subconference on Natural Language Processing, Avignon, 1991

Coordinator for the Italian side at Bilateral Israel-Italy Symposium on Artificial Intelligence promoted by CNR and MOST, Israeli Ministry for Science and Technology. Shores, Israel, 1992

Avignon -92, Subconference on Natural Language Processing, Avignon, 1992

AVI-92 International Workshop on Advanced Visual Interfaces. Roma, 1992

ACAI-93, Advanced Course on Artificial Intelligence of the European Coordinating Committee for Artificial Intelligence, Capri, 1993

Fourth European Workshop on Natural Language Generation, Pisa, 1993

KB&KS 93 International Conference on Building and Sharing Very Large-Scale Knowledge Bases, Tokyo, 1993

ENTER 94, International Conference on Information and Communications Technology in the Field of Tourism, Innsbruck, 1994

ECAI 94, Eleventh European Conference on Artificial Intelligence, Amsterdam, 1994.

Fourth Conference on Applied Natural Language Processing of the Association for Computational Linguistics, Stuttgart, 1994

Workshop on Integration of Natural Language Processing and Vision Processing. AAAI-94, Conference of the American Association for Artificial Intelligence, Seattle, 1994.

Advising Board of IJCAI-95, Fourteenth International Joint Conference on Artificial Intelligence, Montreal, 1995.

ENTER 95, International Conference on Information and Communications Technology in the Field of Tourism, Innsbruck, 1995

KB&KS 95 International Conference on Building and Sharing Very Large-Scale Knowledge Bases, Enschede, 1995

Seventh European Conference of the Association for Computational Linguistics, Dublin 1995

Bar Ilan Symposium on Foundations of Artificial Intelligence, Tel Aviv, 1995

RANLP-95 Recent Advances in Natural Language Processing, Velingrad, Bulgaria, 1995

Workshop on Intelligent Multimedia Information Retrieval, Fourteenth International Joint Conference on Artificial Intelligence, IJCAI95, Montreal, 1995.

ENTER 96 International Conference on Information and Communications Technology in the Field of Tourism, Innsbruck, 1996

International Workshop on Computational Humor: Automatic Interpretation and Generation of Verbal Humor, Enschede, 1996

Workshop on Representation and Processes between Vision and Natural Language, Twelfth European Conference on Artificial Intelligence, Budapest, 1996

IEEE International Conference on Tools with Artificial Intelligence (ICTAI-96), Toulouse, 1996

ENTER 97, International Conference on Information and Communications Technology in the Field of Tourism, Edinburgh, 1997.

CSAPC97, Sixth European Conference on Cognitive Science Approaches to Process Control - Time and Space in Process Control, Maggiore Lake, 1997

First International Workshop on Human-Computer Conversation. Bellagio, 1997

CPL '97 - Conference on Computational Psycholinguistics, Berkeley, 1997

RANLP-97 Recent Advances in Natural Language Processing, Tzigrav Chark, Bulgaria, 1997

Flexible Hypertext Workshop, held in Conjunction with the Eighth ACM International Hypertext Conference (Hypertext'97), Southampton, 1997

IUI-98 International Conference on Intelligent User Interfaces. San Francisco, 1998

ENTER 98 International Conference on Information and Communications Technology in the Field of Tourism, Istanbul, 1998

IFIP IT&KNOWS Conference (Information Technology and KNOWledge Systems). Vienna and Budapest, 1998.

Fourth World Congress on Expert System-Workshop on Intelligent Multimodal Systems. Mexico City 1998

International Workshop on Corpus-Based Terminology. Bolzano, 1998

ACL/COLING Workshop on Translingual Information Management. Current Levels and Future Abilities. Montreal, 1998

CSAPC'99, Seventh European Conference on Cognitive Science Approaches to Process Control "Human-Machine Reliability and Cooperation" Villeneuve d'Ascq, France 1999

IUI-99 International Conference on Intelligent User Interfaces. Los Angeles, 1999

ENTER-99 International Conference on Information and Communications Technology in the Field of Tourism, Innsbruck, 1999

Workshop on Stories and Humour. AISB '99 Convention, Edinburgh 1999.

Eighth International Workshop on the Cognitive Science of Natural Language Processing (CSNLP-8) "Language, Vision and Music" National University of Ireland, Galway, 1999

TLWT-15 "Interactions in Virtual Worlds" Twente Workshop on Language Technologies, Enschede, 1999.

ECCS-99 European Conference on Cognitive Science, Siena, 1999

IWPT-00 International Workshop on Parsing Technologies, Trento 2000

ENTER-2000 International Conference on Information and Communications Technology in the Field of Tourism, Barcelona, 2000

PAIS-2000 Subconference at ECAI-2000 Prestigious Applications of Intelligent Systems, Berlin, 2000

LREC 2000 workshop: From spoken dialogue to full natural interactive dialogue. Theory, empirical analysis and evaluation, Athens, 2000

AIMSA 2000, The Ninth International Conference on Artificial Intelligence: Methodologies, Ssystems,

Applications, Varna, 2000

CSAPC'01, Eighth European Conference on Cognitive Science Approaches to Process Control "Automation and Interaction", Munich, 2001

NAACL 01. Language Technologies 2001. Second Meeting of the North American Chapter of the Association for Computational Linguistics, Carnegie Mellon University, Pittsburgh, 2001

MT 2010 -- Towards a Road Map for MT, Workshop hosted by Machine Translation Summit VIII, Santiago de Compostela, September 2001

ACL 2001 Workshop on Human Language Technology and Knowledge Management Conference, Toulouse, 2001

ACL 2001 Workshop on Evaluation for Language and Dialogue Systems, at the Conference, Toulouse, 2001

2nd ACL SIGdial Workshop on Discourse and Dialogue. Aalborg, September 1-2, 2001

IWPT 2001, 7th International Workshop on Parsing Technologies, sponsored by ACL/SIGPARSE, Beijing, 17-19 October, 2001

Euroweb-2001 The Web in Public Administration, Venice, 18-20 December 2001

IUI-2002 International Conference on Intelligent User Interfaces Conference, San Francisco, 2002

ENTER-2002 International Conference on Information and Communications Technology in the Field of Tourism, Innsbruck, 2002

PAIS-2002 Subconference at ECAI-2002 Prestigious Applications of Intelligent Systems, Lyon, 2002

AH-2002 Second International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems, Malaga, 2002

International CLASS Workshop on Natural, Intelligent and Effective Interaction in Multimodal Dialogue Systems, Copenhagen, 2002

ICMI-2002 International Conference on Multimodal Interfaces, Pittsburgh 2002

LREC-2002 Workshop on Multimodal Resources and Multimodal System Evaluation, Las Palmas, 2002

ITS-2002 Sixth International Conference on Intelligent Tutoring Systems, San Sebastian, Biarritz, 2002

ENTER-2003 International Conference on Information and Communications Technology in the Field of Tourism, Helsinki, 2003

IUI-2003 International Conference on Intelligent User Interfaces Conference, Miami Beach, 2003

CSAPC'03, 9th European Conference on Cognitive Science Approaches to Process Control "Cognition and Collaboration - Distributed Cognition in Complex Processes" Amsterdam 16-19 September 2003

First European Symposium on Ambient Intelligence, Eindhoven, 3 - 4 November 2003

ICMI-PUI'03 Fifth International Conference on Multimodal Interfaces. Vancouver, November 5-7, 2003

Co-organizer of the ACM CHI 2003 workshop on "Humor Modeling in the Interface", Fort Lauderdale, 2003

PAIS-2004 Subconference at ECAI-2004 Prestigious Applications of Intelligent Systems, Valencia, 2004

ENTER-2004 International Conference on Information and Communications Technology in the Field of Tourism, Cairo, 2004

IUI-2004 International Conference on Intelligent User Interfaces Conference, Madeira, 2004

SIGDIAL-04, Boston, 2004.



ADS-04 Tutorial and Research Workshop on Affective Dialogue Systems, Augsburg, 2004

Computational Creativity Workshop at the 7TH European Conference on Case-Based Reasoning (ECCBR'04), Madrid, 2004

ICMI'04 Sixth International Conference on Multimodal Interfaces, State College, PA, 2004

IPra-2005, 9th International Pragmatics Conference, Riva of the Garda, July 2005

IEA-AIE-05 18th International Conference on Industrial and Engineering Applications of Artificial Intelligence & Expert Systems, Bari, 2005

IUI-2005 International Conference on Intelligent User Interfaces Conference, San Diego, CA, January 2005

ACII-2005 - First International Conference on Affective Computing and Intelligent Interaction, Beijing, 2005

CONTEXT'05 –Fifth International and Interdisciplinary Conference on Modeling and Using Context, Paris, July 5-8, 2005

BISFAI-05 Biennial International Symposium on the Foundation of AI, Haifa, June 2005

Second Computational Creativity Workshop at IJCAI-2005, Edinburgh 2005

Abuse: the darker side of human-computer interaction, an INTERACT 2005 Workshop, Rome, 2005

Member of the Advisory Board for ECAI-06, Seventeenth European Conference on Artificial Intelligence, Trento, 2006

IUI-2006 International Conference on Intelligent User Interfaces Conference, Sydney, 2006

SID2006 The 5th International Workshop on Social Intelligence Design. Osaka, March 24-26, 2006

PIT06 Tutorial and Research Workshop on Perception and Interactive Technologies, Kloster Irsee, 2006

AVI 2006, Advanced Visual Interfaces, Venezia, 2006

AAAI-06 The Twenty-first National Conference on Artificial Intelligence, Nectar track, Boston, July 2006

PAIS-2006 Subconference at ECAI-2006 Prestigious Applications of Intelligent Systems, Trento, 2006

CHI-2006 Workshop on Misuse and Abuse of Interactive Technologies, Quebec, 2006

Third Joint Workshop on Computational Creativity at ECAI-06, Riva del Garda, 2006

CMNA-6 Sixth Workshop on Computational Models of Natural Argument, Riva del Garda 2006

ENTER-2007 International Conference on Information and Communications Technology in the Field of Tourism, Ljubljana, 2007

FLAIRS 2007 Workshop on AI and Ambient Entertainment, Key West, FLA, 2007

CMNA-7 Seventh International Workshop on Computational Models of Natural Argument, Hyderabad, 2007

AAAI-07 The Twenty-second National Conference on Artificial Intelligence, Nectar track, Vancouver, 2007

ACII-2007 - Second International Conference on Affective Computing and Intelligent Interaction, Lisboa, 2007

IJWCC'07 Fourth International Joint Workshop on Computational Creativity, Goldsmith University, London, 2007

EUROLAN 2007, Iasi, 2007

Innovation in Rehabilitation Technology Workshop. Hebrew University, Jerusalem, 2007

ENTER-2008 International Conference on Information and Communications Technology in the Field of Tourism,

Innsbruck, 2008

AVI 2008, Advanced Visual Interfaces, Napoli, 2008

PIT08 Tutorial and Research Workshop on Perception and Interactive Technologies, Kloster Irsee, 2008

Symposium on Affective Language in Human and Machine at AISB 2008, Aberdeen, 2008

Symposium on Persuasive Technologies at AISB 2008, Aberdeen, 2008

CICLING, 9th International Conference on Intelligent Text Processing and Computational Linguistics, Haifa, 2008

PAIS 2008 Subconference at ECAI-2008 Prestigious Applications of Intelligent Systems, Patras, 2008

IJWCC'08 Fifth International Joint Workshop on Computational Creativity, Madrid, 2008

AAAI Fall Symposium on Multimedia Information Extraction, Stanford, CA, 2008

ENTER-2009 International Conference on Information and Communications Technology in the Field of Tourism, Amsterdam, 2009

IUI-2009 International Conference on Intelligent User Interfaces, Sanibel Island, Florida, 2009

Symposium on Persuasive Technology and Digital Behaviour Intervention, Edinburgh, 2009

8th Interaction Design and Children Conference, Como, 2009

UMAP-2009, First international Conference on User Modeling, Adaptation and Personalization, Trento, 2009

CMNA-8 Eighth International Workshop on Computational Models of Natural Argument, Pasadena, 2009

eINTERFACE'09 – 5th International Summer Workshop on Multimodal Interfaces, Genova, 2009

Human-computer Interaction in Natural Language Environment in KES-IIMSS 2009 (2nd KES International Symposium on Intelligent Interactive Multimedia Systems and Services), Milan, 16-17 July 2009

INTETAIN-2009 Third International Conference on Intelligent technologies for Interactive Entertainment, Amsterdam, 2009

ACII-2009 Third International Conference on Affective Computing and Intelligent Interaction, Amsterdam, 2009

ENTER-2010, International Conference on Information and Communications Technology in the Field of Tourism, Lugano, 2010

ICCC-2010 International Conference on Computational Creativity, Lisbon, 2010

ACM Multimedia 2010- Human Centered Multimedia, Firenze, 2010

User Models for Motivational Systems - the affective and the rational routes to persuasion. Workshop in conjunction with UMAP-2010, Hawaii, 2010

First International Workshop on Interactive Storytelling for Children, in conjunction with IDC 2010 the 9th ACM International Conference on Interaction Design and Children, Barcelona, 2010

CMNA-9 Ninth International Workshop on Computational Models of Natural Argument, Lisbon, 2010

ENTER-2011, International Conference on Information and Communications Technology in the Field of Tourism, Innsbruck, 2011

ICCC-2011 2nd International Conference on Computational Creativity, Mexico City, 2011

UM4Motivation , User Models for Motivational Systems: the affective and the rational routes to persuasion. Workshop in conjunction with UMAP-2011, Girona, 2011

IJCAI-2011, International Joint Conference on Artificial Intelligence, Barcelona, 2011

ENTER-2012, International Conference on Information and Communications Technology in the Field of Tourism, Helsingbor, 2012

ICCC 2012, International Conference on Computational Creativity, Dublin, 2012

Persuasive 2013 Eighth Conference on Persuasive Technologies in Entertainment & Ecommerce, Sydney, 2013

ICCC 2013, International Conference on Computational Creativity, Sydney, 2013

Persuasive 2014, Ninth Conference on Persuasive Technologies Padova, 2014

ICCC 2014, International Conference on Computational Creativity, Ljubliana, 2014

## **b) National conferences**

Primo Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Trento 1989

Primo workshop AI\*IA su Distributed Artificial Intelligence. Roma 1991

Workshop su Interazione Uomo-Macchina Adattiva. Bari 1992

Secondo workshop AI\*IA su Distributed Artificial Intelligence. Roma 1992

Terzo Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Torino 1993

Quarto Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Firenze 1995

Quinto Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Roma, 1997

Sesto Congresso Nazionale della Società Italiana di Ergonomia "Governo delle tecnologie, efficienza e creatività", Bologna, 1997

HCI-ITALY Workshop italiano su Interazione Uomo-Computer promosso dall'ACM. CNR Roma 1999

VEXTAL Venezia per il Trattamento Automatico delle Lingue, Venezia , 1999

Settimo Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Bari, 2001

Settimo Congresso Nazionale della società italiana di ergonomia "L'Ergonomia nella Società dell' Informazione", Firenze, 2001

Workshop NLP and Web: la sfida della multimodalità tra approcci simbolici e approcci statistici. Convegno AI\*IA, Siena, 2002

Ottavo Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Pisa, 2003

HCITALY 03, convegno della sezione italiana del SIG in Computer-Human Interaction of the ACM. Torino, 2003

Convegno 'Contesti virtuali e fruizione dei beni culturali', Napoli, Certosa di San Martino, 2003

Workshop Intelligenza Artificiale per i Beni Culturali, Pisa, 2003

Comitato scientifico di AICA 2003, Trento, 2003

Workshop Intelligenza Artificiale per i Beni Culturali, Convegno AI\*IA, Perugia, 2004

Nono Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Milano, 2005

Decimo Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Roma, 2007

Undicesimo Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Reggio Emilia, 2009

Dodicesimo Congresso dell'Associazione Italiana per l'Intelligenza Artificiale, Palermo, 2011

## 15. INVITED SPEAKER

### *a) International conferences*

1988 Experimental Environments for Experimental Intelligent Systems. Invited talk at the International Summer School on Philosophical Perspectives on Artificial Intelligence. Bolzano

1989 Dialogue en langage naturel et accès à l'Information. Invited talk at Convergence des techniques vers une nouvelle dimension des systemes d'information. Centre de Hautes Etudes Internationales d'Informatique Documentaire. College de France. Paris

1989 Invited by the Bulgarian Academy of Science to deliver a talk at the Conference on Intelligent Management Systems, Varna. (could not attend)

1989 Invited by the Faculty of Electrotechnic Engineering of Prague Univeristy and by UNESCO to deliver a talk at teh Conference "The Advent of Artificial Intelligence in Higher Education", Praha (could not attend)

1989 Invited to deliver a talk at the Convegno of Studi of Italianistica, Aachen. (could not attend)

1990 Invited Summary Speech on Natural Language Processing a ECAI-90, Nineth European Conference on Artificial Intelligence, Stockholm.

1991 Panel "Language Technology - Myth or Reality" Invited talk at Workshop "Sprachtechnologie und Praxis der Maschinellen Sprachverarbeitung" Bad Homburg.

1991 Natural Language and Exploration of an Information Space: the AIFresco Interactive System. Invited talk at United Nations International Conference on Information Technology for Social Purposes. Las Palmas.

1992 Generation and Hypertexts Combined. Invited talk at the ESPRIT BRA Workshop on Task Based Explanation. Samos.

1992 A Third Modality of Natural language? Invited talk at Tenth European Conference on Artificial Intelligence (ECAI-92), Vienna

1992 Natural Language-Centered Communication and Exploration of an Information Space. Invited talk at Bilateral Israel-Italy Symposium On Artificial Intelligence. Shores, Israel.

1994 Automatic Generation of Instructions for Citizens in a Multilingual Community. Invited talk at Language Engineering Convention, Paris

1994 Intelligent Interfaces, Natural Language and Multimodality, Invited talk at Decimo Congreso of the Sociedad Espanola para el Procesamento of the Langaje Natural, Cordoba.

1994 Discorso of apertura of the Eleventh European Conference on Artificial Intelligence, Amsterdam.

1994 Perspectives for Natural Language Processing. Invited talk at Meeting on Brain and Language Acquisition, Bolzano

1994 Intelligent Interfaces, Natural Language and Multimodality. Invited talk at Awareness Symposium sponsored by the European Union, Praha

1995 The Role of Natural Language in the Exploration of an Information Space. Invited talk at IEE Colloquium on Grounding Neurons in Space: Integration of sensory perception with natural language processing, artificial intelligence

and neural networks, IEE , Savoy Place, London

1995 Human language and the computer. Invited talk at. 13th European Conference on Architectural Design in Europe, Palermo.

1996 Flexible Bidirectional Parsing. Invited talk at AMLAP-96, Conference on Architectures and Mechanisms for Language Processing Torino.

1996 Presidential Address al 34th Annual Meeting of the Association For Computational Linguistics, Santa Cruz, California.

1996 Password Swordfish. Verbal Humour in the Interface. Invited talk at International Workshop on Computational Humor: Automatic Interpretation and Generation of Verbal Humor, Enschede.

1997 Invited Discussant at the AAAI Fall Symposium on Communication in Humans and Machines, Boston.

1998 Multimodal Communication With and Without Agenthood. Invited talk at Second International Conference on Cooperative Multimodal Communication, Tilburg, the Netherlands.

1998 Multimedia Communication. Invited talk at US-National Science Foundation Workshop on Translingual Information Management: Current Level and Future Abilities. Granada, Spain

1998 Intelligent Interfaces for Cultural Heritage Fruition. Invited talk at CULTH, Vienna.

1999 Was the title of this talk generated automatically? Prospects on intelligent interfaces and language. Invited talk at IJCAI-99 Sixteenth International Joint Conference on Artificial Intelligence, Stockholm.

1999 Prospects on Intelligent Interfaces and Language. Invited talk at the Japan-Italy Binational Symposium: Advanced Research Strategies for a User-Friendly Communication in a Global Society. Tokyo

2000 Intelligent Interfaces for the Tourist. Research keynote speech at ENTER-2000, International Conference on Information and Communications Technology in the Field of Tourism, Barcelona

2001 The environment as a medium. Coordination and Fusion in Multimodal Interaction, Dagstuhl Castle

2001 Language-Based Interfaces and their Application for Cultural Tourism. Invited talk at BISFAI-2001, Bar-Ilan Symposium on Foundations of Artificial Intelligence, Bar-Ilan University, Ramat Gan.

2001 Communicating with humans in natural language: a machine's dream? HAL 2001 Universidad Internacional Menendez y Pelayo, Valencia

2002 O. Stock and M. Zancanaro 'Intelligent Interactive Information Presentation for Cultural Tourism'. Invited talk. International CLASS Workshop on Natural, Intelligent and Effective Interaction in Multimodal Dialogue Systems, Copenhagen

2002 Computational Humor ITS-2002 Invited talk. Sixth International Conference on Intelligent Tutoring Systems, San Sebastian, Biarritz

2005 Creative Intelligent Interfaces 4 2rists. ENTER-2005, Innsbruck

2006 Intelligent Interfaces for Cultural Heritage Appreciation: PEACH and other fruits. CATCH (Continuous Access to Cultural Heritage) Conference, Van Gogh Museum, Amsterdam.

2007 Language, Interaction and Computation Lab, Center For Mind / Brain Sciences (CIMEC) Inaugural Workshop - Rovereto

2007 Moving Creative Words. BVAI-2007 Brain Vision & Artificial Intelligence, Napoli

2008 Persuasive Communication. Machine's Chutzpah? Computers and Thought Conference in honor of Martin Golumbic's 60th birthday. Hadassah College, Jerusalem.

2011 Persuasive Systems for Small Groups in a Museum. INTETAIN 2011, Genova.

2011 Persuasive Systems for Small Groups. BISFAI 2011, Bar Ilan University.

2011 Computational humor as a resource for persuasive systems, NEM 2011, Torino

2011 Drama in the museum. Adaptive technology for a small group of visitors New Perspectives New Technologies Convegno Internazionale di Studi, Venezia

2012 Computational humor, from language creativity to automated persuasion. Invited talk at the Symposium The Creative Web 2012 : Computational Creativity as a Web-Service. KAIST, Daejeon. Korea

2013 Persuasive technology for a small group of visitors, ENTER 2013, Innsbruck

### **b) National conferences**

1984 Aspetti dialogici e ragionamento nel rapporto utente-sistema. Relazione invitata. Intelligenza Artificiale e Archeologia. Università di Pisa

1984 Interazione uomo-macchina intelligente Relazione di apertura al convegno. CNR Sede Centrale Roma

1985 Sistemi esperti ed ambienti interattivi integrati per l'educazione Relazione invitata. Convegno su Informatica e Didattica. Bologna

1985 Ambienti per la programmazione esplorativa in intelligenza artificiale e lo sviluppo of WEDNESDAY 2: un parser su Xerox 1108. Relazione invitata. Giornata di lavoro su Intelligenza Artificiale. ENEA , Bologna

1985 Sistemi esperti in medicina. Tutorial (assieme a G. Guida, M. Stefanelli and P. Torasso) al Congresso AICA 85. Firenze

1985 Recenti sviluppi della ricerca nell'analisi del linguaggio naturale . Relazione invitata. Convegno Architetture software per sistemi intelligenti (M. P.I. 40%). Torino

1986 Intelligenza Artificiale. Relazione invitata. RATIO 6: Computer e decisione clinica. Policlinico Universitario A. Gemelli. Roma

1986 Il sistema KRAPPEN. Corso su Basi of conoscenza: Metodi e sistemi. Istituto di Analisi dei sistemi e Informatica del CNR. Roma

1986 Dal laboratorio al mercato e ritorno. Quale ricerca per l'intelligenza artificiale? Relazione invitata. Convegno col patrocinio del Ministero della Ricerca Scientifica sul tema Intelligenza Artificiale. SMAU. Milano

1987 Intelligenza artificiale e linguaggio naturale. Relazione invitata. Incontro sull'intelligenza artificiale organizzato dall'Università di Padova. Bressanone.

1988 La comprensione del linguaggio naturale per l'accesso all'informazione. Relazione invitata. Convegno su "Evoluzione delle tecniche di accesso all'informazione". Fondazione Ugo Bordoni. Roma

1988 Prospettive per la rappresentazione delle conoscenze e l'elaborazione del linguaggio naturale. Relazione invitata. Tecnologie e Strategie Competitive per gli anni 90. Levico Terme.

1988 Comunicazione e computer: una prospettiva di Intelligenza Artificiale. Relazione invitata. Convegno "La Nuova Comunicazione" Trento.

1988 Interfacce basate su linguaggio naturale. Relazione invitata. Checkpoint 88. Rassegna di Informatica Applicata. AICA. Roma.

1989 Elaborazione del linguaggio naturale. Relazione invitata. Convegno delCIDI su "Intelligenza Artificiale e Scienze Cognitive" indirizzato al personale direttivo e docente delle scuole. Treviso

1991 Interfacce in linguaggio naturale. Relazione invitata. ExpertUse 91, Ischia.

- 1992 Interfacce in Linguaggio Naturale per l'accesso all'informazione. Relazione invitata. Convegno su Tecnica del legislazione: metodologie e strumenti informatici. CIRFID, Bologna
- 1992 Verso una terza modalità di linguaggio naturale. Relazione invitata. Convegno "La semantica delle parole e delle cose" Bolzano
- 1992 Relazione invitata. Workshop sulla Percezione dell'AI\*IA. Trieste
- 1993 Elaborazione del linguaggio naturale e esplorazione dei beni culturali. Relazione invitata. Giornata di lavoro su Sistemi Intelligenti Multimediali e Beni culturali. Centro europeo per i Beni Culturali. Ravello
- 1994 Elaborazione del linguaggio naturale e prospettive per i beni culturali. Relazione invitata. Convegno Sistemi Multimediali Intelligenti, Ravello
- 1995 Relazione di apertura. Workshop su Interfacce Intelligenti, organizzato da AI\*IA e Finmeccanica, Sede Centrale Finmeccanica, Roma.
- 1995 Esplorazioni in un ambiente multimodale di accesso alle informazioni. Relazione invitata. Giornata di Studi su Principi Cognitivi e Ontologici dell'Ingegneria del Linguaggio Naturale, Aula Magna, Università di Roma 2, Tor Vergata.
- 1995 Relazione invitata. Convegno Informatica Legislativa. Gorizia.
- 1996 Interfacce Intelligenti nello studio di fattibilità del Progetto Finalizzato CNR "Sistemi di Intelligenza Artificiale" Intervento Invitato. Secondo Workshop su Interfacce Intelligenti dell'AI\*IA. CNR, Roma.
- 1996 Una terza modalità linguistica? Relazione invitata al Convegno sulle Scienze Cognitive, in memoria di Raffaello Misiti, Consiglio Nazionale delle Ricerche, Roma
- 1997 Ricerche e applicazioni dell'elaborazione del linguaggio naturale all'IRST. Relazione invitata. Conferenza su Trattamento automatico delle lingue nella società dell'informazione. Aula Magna Ministero Poste e Telecomunicazioni, Roma
- 1997 Prospettive per l'elaborazione automatica del linguaggio naturale. Relazione invitata. Simposio "Didattica e Informatica". Accademia Navale Italiana, Livorno
- 1997 Elaborazione del linguaggio naturale per la comunicazione tra pubblica amministrazione e cittadino. Relazione invitata. Quinto Congresso dell'AI\*IA, Workshop "Nuove Tecnologie, Intelligenza Artificiale e Servizi al Cittadino", Roma
- 1999 Alcune sfide applicative per le Scienze Cognitive e l'IA. Relazione invitata. Bilancio e Prospettive degli studi cognitivi - Convegno scientifico in onore di Domenico Parisi, Istituto di Psicologia del CNR, Roma.
- 2002 Presentazione intelligente interattiva dell'informazione e turismo culturale. TIPI-Tecnologie Informatiche nella promozione della lingua italiana, Roma.
- 2003 Avanzamenti nella ricerca su presentazione intelligente dell'informazione per il visitatore. Convegno Contesti virtuali e fruizione dei beni culturali Certosa e Museo di San Martino, Napoli.
- 2007 Guide intelligenti per la visita al museo. Comunicare Fisica, Trieste
- 2007 Interfacce intelligenti e scienze cognitive: un rapporto dal campo. Quarto Convegno Nazionale dell'Associazione Italiana di Scienze cognitive, Roma.
- 2011 Interfacce intelligenti persuasive e prospettive per il turismo, IFITT Italy Lab. BTO, Firenze
- 2013 Digital Humanities *ante litteram* at IRST. Convegno Digital Humanities in onore di Emanuele Pianta, Trento

## 16. PANEL COORDINATOR, INVITED PANELIST

1987 "L'Intelligenza Artificiale in Italia: realtà scientifica e realtà industriale", organized by AICA. CNR, Roma

1987 Panel Coordinator (with G. Degli Antoni): Artificial Intelligence. III Simposio sull'Intelligenza Artificiale. Fiera di Milano.

1988 Tavola Rotonda sulle prospettive industriali dell' Intelligenza Artificiale, promosso dall'ISIPA. Palazzo dei Convegni, Roma

1989 "La redazione automatica di testi legislativi" Istituto di Documentazione Giuridica del CNR e Elea, Firenze

1991 Convegno su Interazione Uomo-Macchina, CNR, Roma.

1992 Coordinator of panel: "AI Prospects" Terzo Convegno dell' AI\*IA, Genova.

1992 "Extending Language Generation to Multiple Media" Sixth International workshop on Natural Language Generation, Castel Ivano

1994 Man-Machine Communication from the User's Perspective. Awareness Symposium sponsored by the European Union, Praha.

1995 Coordinator of panel: 'Il ruolo delle tecnologie innovative per la qualità dei servizi della Pubblica Amministrazione'. Workshop su Intelligenza Artificiale per la Pubblica Amministrazione, Quarto Congresso dell' AI\*IA, Palazzo dei Congressi, Firenze.

1995 Discussion chairman: IJCAI-95 Workshop on Retrieval of Multimedia Information.. Montreal

1996 Coordinator of panel: "Artificial Intelligence for Tourism" ENTER 96 International Conference on Information and Communications Technology in the Field of Tourism, Innsbruck

1996 'Il linguaggio naturale nelle interfacce intelligenti' Workshop su Elaborazione del Linguaggio Naturale del Quinto Convegno Nazionale of the AI\*IA, Napoli

1996 Panel on Future Directions in Computational Humour. International Workshop on Computational Humor: Automatic Interpretation and Generation of Verbal Humor, Enschede

1998 Telematics and Perspectives in the Touristic Sector. First Mediterranean Exchange of Archeological Tourism, Paestum

1999 Language on Trial. WWW-8, Toronto

1999 Coordinator of "Il gioco delle parole" with Stefano Bartezzaghi, Douglas Hofstadter, Achille Varzi, Istituto Trentino di Cultura, Trento

1999 "Intelligenza Artificiale and applicazioni: problematiche and potenzialità" Sesto Congresso dell' AI\*IA, Bologna

2000 "Il futuro of the comunicazione nella società di the 2000" XI Giornate of Studio of the Gruppo of Fonetica Sperimentale, Università di Padova, Padova

2000 "ELSNET Roadmap meeting": HLT in 2010, Katwijk, 2000

2002 Coordinator of the Panel "Future of Multimodal Interfaces", AVI-2002, Advanced Visual Interfaces, Trento, 2002

2002 Coordinator of the Panel "Humor and Emotions", Fools' Day Workshop on Computational Humor, Trento, 2002

2003 Beni Culturali e Tecnologie della Multimedialità - un'opportunità per la ricerca, l'impresa e il territorio. Convegno Contesti virtuali e fruizione dei beni culturali. Certosa and Museo of San Martino, Napoli, 2003

2004 STAIRS Panel: AI Research in Europe – perspectives, careers and pitfalls, at ECAI'04, Valencia, 2004

2005 MEANING panel at Second MEANING Workshop, Trento, 2005



2007 Intelligenza Artificiale e Innovazione industriale in Italia: un sistema possibile? Tavola rotonda a Tenth Congress of AI\*IA, Frascati 2007

## 17. SEMINARS AND CONFERENCES

- 1977 ATNSYS, A system for automatic grammatical analysis of natural languages. Seminar at the International School of Mathematical and Computational Linguistics . Pisa
- 1978 Automatic Grammatical Analysis of Natural Languages. Colegio de Mexico. Mexico City
- 1979 ATNSYS, a System for Automatic Grammatical Analysis of Natural Languages. Algemeen Informatica Colloquium. Amsterdam University.
- 1981 Recenti sviluppi negli Stati Uniti nell'area della comunicazione uomo-macchina in linguaggio naturale. CSELT, Torino
- 1981 Strategy selection in Syntactic Parsing of Natural Languages. Hebrew University, Department of Mathematics. Jerusalem
- 1983 A distributed approach to natural language parsing. University of California at Berkeley. Cognitive Science Group.
- 1984 Parsing and comprensione automatica of the linguaggio naturale. Seminario Permanente of Informatica. Università di Roma "La Sapienza". Dipartimento of Informatica and Sistemistica, Roma
- 1984 Linguistica Computazionale. At the Corso PSLs Provveditorato Agli Studi of Roma
- 1984 Ambienti per la programmazione esplorativa in Intelligenza Artificiale. CSI, Torino
- 1985 Ambienti per la programmazione esplorativa in I.A.. Politecnico of Milano. Dipartimento di Ingegneria Elettronica.
- 1985 Elaborazione del linguaggio naturale e modellizzazione cognitiva. Centro Ricerche. Ispra
- 1985 Prospettive nell'elaborazione del linguaggio naturale. Incontri Diebold. Roma
- 1986 Un'introduzione all'intelligenza artificiale. Università di Roma "La Sapienza". Facoltà di Lettere e Filosofia.
- 1986 Prospettive nell'elaborazione del linguaggio naturale. CSELT. Torino
- 1986 Il parser WEDNESDAY 2. Istituto of Linguistica Computazionale of the CNR. Pisa
- 1986 Prospettive nell'elaborazione del linguaggio naturale. Università di Bari. Dipartimento of Matematica.
- 1986 Reti semantiche per l'analisi del linguaggio naturale. Università di Padova. Istituto di Elettrotecnica e Elettronica.
- 1986 Reti semantiche per l'analisi del linguaggio naturale. Dipartimento di Scienze dell' Informazione. Torino
- 1986 Prospettive per l'elaborazione del linguaggio naturale. IRST. Trento
- 1986 Intelligenza Artificiale: stato dell'arte e prospettive. EDP USA. Roma
- 1987 Interfacce in linguaggio naturale. Serie di seminari. TECSIEL. Roma
- 1988 Intelligenza Artificiale: prospettive di ricerca e sviluppo. Unionmeccanica. Vicenza.
- 1988 Elaborazione del linguaggio naturale. Università di Roma II. Dipartimento di Ingegneria Elettronica.
- 1988 Parsing Natural Language with Flexibility and Idioms in Mind. University of Innsbruck
- 1988 L'elaborazione del linguaggio naturale. Parte I. Università di Padova. Dipartimento di Matematica Pura ed

Applicata.

1988 L'elaborazione del linguaggio naturale. Parte II. Università di Padova. Dipartimento di Matematica Pura ed Applicata.

1988 Intelligenza artificiale e sistemi esperti. Università di Padova. Istituto di Psicologia. Seminari di ergonomia cognitiva.

1989 Intelligenza artificiale e elaborazione del linguaggio naturale. Università di Venezia. Dipartimento di Lingue.

1990 Un'introduzione all'intelligenza artificiale. ITIS Verona

1991 Chart Parsing: tema e variazioni. Istituto di Cibernetica del CNR, Napoli

1991 Dialogo in linguaggio naturale in un ambiente ipermediale. Centro Ricerche ENEL, Napoli

1991 Natural Language and Exploration of an Information Space: the AlFresco Interactive System. Istituto Dalle Molle per gli Studi sull'Intelligenza Artificiale. Lugano.

1991 Natural Language and Exploration of an Information Space: the AlFresco Interactive System. Bolt Beranek and Newman Colloquium. Cambridge, Mass.

1992 Natural Language and Exploration of an Information Space: the AlFresco Interactive System. University of Vienna

1993 Verso una terza modalità di linguaggio naturale? Centro Interdipartimentale Tecnologie della Conoscenza. Palazzo Steri. Università di Palermo

1993 Bidirectional Chart Parsing and Error Recovering . Department of Computer Science. University of Linköping

1993 Prospettive nell'elaborazione del linguaggio naturale. Dipartimento di Matematica. Università di Trento

1994 Comunicare con gli elaboratori in linguaggio naturale. Università di Bologna

1994 Comunicare con gli elaboratori in linguaggio naturale. Dipartimento di Matematica. Università di Trieste

1994 Prospettive nell'elaborazione del linguaggio naturale. Accademia Patavina delle Scienze, Padova

1995 Esplorazioni in un ambiente multimodale di accesso alle informazioni in linguaggio naturale. Istituto di Cibernetica del CNR, Napoli

1998 Prospettive per l'elaborazione automatica del linguaggio naturale. Accademia Europea, Bolzano

1998 Come potrà migliorare il rapporto tra persone ed elaboratori. Associazione Culturale Antonio Rosmini, Trento

2000 Was the title of this talk generated automatically? Prospects on Intelligent Interfaces and Language. Dept. of Computer Science, Columbia University. New York

2000 Prospects on Intelligent Interfaces and Language. Institute for the Learning Sciences, Northwestern University Chicago

2000 Verbal Humour and Human-Computer Interfaces. Art Gliner Center for Humor Studies. University of Maryland, College Park

2000 Was the title of this talk generated automatically? Prospects on Intelligent Interfaces and Language. Dipartimento di Informatica and Sistemistica. Università di Roma La Sapienza

2001 Comunicare con le macchine in linguaggio naturale. Ciclo di seminari sulla Net-economy. Università di Trieste

2001 Language-Based Interfaces and their Application for Cultural Tourism. University of Haifa

2002 Interfacce intelligenti basate su linguaggio per la fruizione dei beni culturali. Università di Napoli

2004 Computational Humor. Università di Siena

2004 Macchine come Noi. Book presentation, with Y. Castelfranchi. Incontri al Chiostro. I Libri, la Scienza . Sala del Chiostro. Università di Roma La Sapienza

2004 Natural Language Processing and Intelligent Information Presentation. Università di Bolzano

2004 Intelligenza Artificiale. Università di Trieste

2006 Intelligent Interfaces for Cultural Heritage Appreciation. University of Haifa

2006 Computational humor and HAHAcronym. University of Haifa

2006 Computational Humor. Ben Gurion University, Beer Sheva

2008 Conversation and joint narration at the (technological) table. University of Bremen

2009 Computer persuasivi, Aperitivi Neuroscientifici, Mart, Rovereto

2009 Computational humor as a resource for persuasive systems, SISSA, Trieste

2009 Café table and humour as computational persuasive systems. Tel Aviv University

2010 Computational Persuasive Systems for Small Groups in a Museum. Technische Universitaet, Wien

2010 Computational Persuasive Systems for Small Groups in a Museum. University of Haifa

2010 Piange il telefono. E il computer? Emozioni, intelligenza, diritti. Aperitivi Neuroscientifici, Facoltà di Scienze Cognitive, Rovereto

2011 Computational Humor. Università di Bolzano/Bozen, Beauty of Computers series.

2014 Tecnologia per l'influenzamento del comportamento di un piccolo gruppo di visitatori, Università di Napoli