

**Prof. LICIA SBATTELLA, PhD**  
**DEIB - Politecnico di Milano**  
**Piazza Leonardo da Vinci 32 - 20133 MILANO**  
**mob: +39.3348109755**  
[licia.sbattella@polimi.it](mailto:licia.sbattella@polimi.it)

## SYNTHETIC PROFILE

LICIA SBATTELLA – Master Degree in Bioengineering, Master Degree in Clinical Psychology, PhD in Computer Science and Specialization as Cognitive Psychotherapist - is Associate Professor of “Natural Language Processing” and of “Personality Team Building and Leadership” at the Dipartimento di Elettronica, Informazione e Bioingegneria of Politecnico di Milano. Since 1985 she has been involved in national and international research activities at Politecnico di Milano, at the Department of Computer Science University of Toronto (Canada), at the Faculty of Communication of Università della Svizzera Italiana (Lugano, Switzerland), at the Art Faculty of Charles De Gaulle University (Lille, France), at UNESCO (France) dealing with computational linguistics, interaction analysis and conversational agents for psychology and psychotherapy, cognitive science, inclusive education and assistive technology, multimedia accessible arts, music psychology.

From 2003 to 2019 she has been the Delegate of the Rector of Politecnico di Milano for persons with disability, Specific Learning Difficulties (SpLD / DSA). As a delegate, in 2003 she founded and since then coordinated the *MultiChancePoliTeam*, the group of specialists who uses innovative technologies and supports cooperative networks: - to assure the complete accessibility of courses and initiatives which involves students with disabilities, either congenital or acquired, and DSA, - to support the employment of students with disability who obtained their degree.

Since 2020 she is the Delegate of the Rector of Politecnico di Milano for Psychological Diseases. In 2017 she founded *PoliPsi* the service that offers psychotherapeutic pathways and experiential psychological courses to students and PhD who need them.

Since 2007 she is member of the Steering Committee of UN-G3ict (the Global Initiative for Inclusive ICTs: a Flagship Advocacy Initiative of the United Nations Global Alliance, ICT and Development) and works internationally with projects for the dissemination and implementation around the world of the principles outlined by the Declaration on the Rights of Persons with Disabilities adopted by the UN in 2007. Since 2015 she represents Politecnico di Milano at the International Association of Universities (IAU). In 2017 she has been invited by the Holy Father to be Corresponding Member of the Pontifical Academy for Life.

She is Ordinary Member of SITCC (Società Italiana di Terapia Cognitiva e Comportamentale), professor and lecturer of highly specialized courses in private and public organizations as the Psychotherapy School “Centro di Terapia Cognitiva” in Como. From 2010 to 2013 she has been Visiting Professor of “Psychology of Music” and “Multimedia Accessible Arts” for the Master on Art et Existence at the Charles De Gaulle University in Lille (France). In Milano she is teaching in Italian and in English and in Lille she has been teaching in French.

She published 11 books and more than 130 articles in international journals and conference proceedings. She is author of the books: - *La mente orchestra. Elaborazione della risonanza e autismo*, Vita e Pensiero, 2006, - *Ti penso dunque suono. Costrutti cognitivi e relazionali del comportamento musicale*, Vita e Pensiero, 2013; co-editor of the book *Le Jeu D’Orchestre. Recherche-action en art dans les lieux de privation de liberté*, Septentrion, 2013; co-author of the books *The Art and Science of Computing*, Addison Wesley, 1997; *Informatica: arte e mestiere*, Mc Graw Hill, 2014<sup>4</sup>, 2008<sup>3</sup>, 2004<sup>2</sup>, 1999<sup>1</sup>; *Istituzioni di Informatica*, Mc Graw Hill, 1995<sup>3</sup>, 1994<sup>2</sup>, 1993<sup>1</sup>.

She is currently involved in international and national projects related to the analysis of verbal and nonverbal interaction, speech and text analysis, empathetic conversational agents for clinics and education, affective computing, multichannel and multimodal communication, multimedia accessible arts (with IAU, EU, and MIUR).

She is currently President of Fondazione Sequeri Esagramma Onlus. Since 1983 she is Scientific Director of Esagramma (a clinic and research center in Milano), where she works with children and adults with autism, cognitive, mental and relational disorders and with their families (using original and innovative methodologies based on music, multimedia technologies and psychotherapy). She is founder and conductor of the Esagramma Symphonic Orchestra, the group which involves persons with special needs and professional musicians and which played in many European countries, in more than 150 theatres, churches, festivals and locations as the Vatican Giubilee in 2000, the European Parliament in Brussels in 2003, the Georgetown University in Washington DC in 2017. She created and validated the Esagramma® Methodologies of Inclusive Orchestral Education, Inclusive Vocal Drama, Orchestral Music Therapy, and Orchestral Team Building.

## CURRICULUM VITAE ET STUDIORUM

- **1958:** Born in Milan on April 19, 1958.

### A. EDUCATIONAL QUALIFICATION

- **1977: High School Scientific Diploma at VIII Liceo Scientifico di Milano:** final mark 60/60.
- **1983: Master Degree in Electronic Engineering / Bioengineering at Politecnico di Milano :** final mark 100/100 *cum laude*.
- **1983: State examination and license to practice as an Electronic Engineer**
- **1970-1985: Studies of classical guitar and choral conducting at Civica Scuola di Musica di Milano** and at *Conservatorio G. Verdi di Milano*.
- **1991: PhD in Computer Science at Politecnico di Milano.**
- **2002: Master Degree in Clinical Psychology at Università degli Studi di Torino:** final mark 102/110.
- **2005: State Examination and license to practice as a Clinical Psychologist** with enrollment on the professional register.
- **2009: Specialization on Cognitive Psychotherapy at SITCC in Como:** final mark 70/70 *cum laude and suggestion to publish the final dissertation*.
- **2009: License to practice as a Clinical Psychotherapist** with enrollment on the professional register.

- Excellent proficiency of **English and French** spoken and written.

### B1. CURRENT PROFESSIONAL POSITION

- **Since 1992: Associate Professor** – subject area : 09-H *Computer Science Eng.* – at *Dipartimento di Elettronica, Informazione e Bioingegneria* at *Politecnico di Milano*.
- **Since 2004: Titular Professor at Politecnico di Milano of the course** "Natural Language Processing : text and speech analysis" (in English)
- **Since 2017: Titular Professor at Politecnico di Milano of the course** "Personalità, Team Building e Leadership" (in Italian)
- **Since 2007: Member of the Program Committee and scientific cooperation with G3ict.** *The Global Initiative for Inclusive ICTs. A Flagship Advocacy Initiative of the United Nations Global Alliance for ICT and Development* – [www.g3ict.org](http://www.g3ict.org)
- **Since 2016: Invited Member of the Expert Advisory Group and Delegate of Politecnico di Milano at IAU (International Association of Universities)**– [www.iau-aiu.net](http://www.iau-aiu.net)
- **Since 2017: Invited Expert Member of the “Pontifical Academy for Life” – Città del Vaticano** – Research group on RoboEthics.
- **Since 2017: Rector’s Delegate for Psychological Diseases at Politecnico di Milano.** Founder and director of *PoliPsi*, the team of specialists that ensures psychological supports to the students of Politecnico di Milano (<https://www.polimi.it/studenti/servizi/servizi-di-supporto-e-ascolto/polipsi-sostegno-psicologico-e-psicoterapeutico/>).
- **Since 2020: Didatta at Centro di Terapia Cognitiva di Como** (<http://centroterapiacognitiva.it>)
- **Since 2000: Director of arclab** (<https://arclab.deib.polimi.it>), the computational linguistic and accessibility research laboratory of Politecnico di Milano that studies innovative applications for intellectual, sensorial, and relational disabilities and for specific learning difficulties in the field of cognitive science, multimodal communication, interaction analysis, speech and language analysis.
- **Since 1998: Scientific Director of Esagramma** ([www.esagramma.net](http://www.esagramma.net)). Center for clinics and professional training: music and innovative technological solutions for intellectual and physical disabilities, for specific learning difficulties and for psychological and psychiatric diseases.

### B2. RECENT PAST PROFESSIONAL POSITION

- **From 2003 to 2019 : Rector’s Delegate for Disability at Politecnico di Milano.** Founder and director of *MultiChancePoliTeam*, the team of specialists that ensures the complete accessibility of academic services, courses and spaces to students with disability ([www.polimi.it/disabilita](http://www.polimi.it/disabilita)).
- **From 2003 to 2019: Member of CNUDD** (National Governmental Council that groups the Italian Rector’s Delegates for Disability) – MIUR (Ministero dell’Istruzione dell’Università e della Ricerca).
- **From 2003 to 2019: Member of CALD** (The Council that groups all the Rector’s Delegates for Disability of the Lombardia County) – **Coordinator of CALD since 2014.**

## C. RESEARCH TOPICS

- Natural Language Processing: text and speech analysis;
- Computational Linguistics for clinics and education;
- Empathetic Conversational Agents;
- Counseling and Psychotherapy
- ICT Accessibility for inclusive education and clinics;
- Multimedia Communication;
- Inclusive Artistic Innovative Methodologies;
- Artificial Intelligence and Cognitive Science: musical behavior analysis, interaction, conversation and dialogues analysis and rehabilitation;
- Psychology of Disability and Specific Learning Difficulties;
- Psychology of Music.

## D. LAST INTERNATIONAL INVITED SPEECH

**2007 – UN Headquarters - New York (USA) - First G3ict Global Forum**

**2007 - Chicago (USA) - G3ict Special Session “The Wireless Internet Opportunity for Disabled Persons: New Horizons for Assistive Technologies” – W2i Digital Cities Convention**

**2007 – Genève (Suisse) – GAID Global Forum on Youth and ICT Development**

**2007 – Milano (Italy) – organizer and speaker of the International Forum *Overcoming Disabilities: Advanced ICT solutions for Adult Life* at Politecnico di Milano.**

**2007 - Washington D.C. (USA) – G3ict Special Session – “The Role of Local Government in Establishing Accessible Wireless Emergency Services” – W2i Digital Cities Convention**

**2008 - Quito (Ecuador) – G3ict Andean Region Forum, hosted by the Ecuadorian Vice Presidency and Ministry of Social Development.**

**2008 - Lusaka (Zambia) – ITU Regional Workshop on ICT Accessibility for Persons with Disabilities in the African Region**

**2008 – Milano (Italy) – organizer and speaker of the International Workshop *POLI NO LIMITS – Integrated Strategies and Technological Planning for a Politecnico without Barriers***

**2008 – UN Headquarters - New York (USA) - Third Global Forum – Joint UNITAR-G3ict Seminar – Digital Inclusion Index Group**

**2009 - Doha (Qatar) – Fourth Annual Shafallah Center Forum on Children with Special Needs**

**2009 – Monterrey, Mexico, GAID Global Forum 2009- ICT & Innovation for Education**

**2009 – Incheon, Republic of Korea (Korea), 2nd Regional Workshop on The Enhancement of ICT Accessibility for Persons with Disabilities.**

**2010 – Paris (France) – UNESCO Consultative Meeting on the United Nations convention on the Rights of Persons with Disabilities**

**2010 – Paris (France) – 4<sup>th</sup> European eAccessibility Forum**

**2010 – Lille (France) *Mutation des Sensibilités en Europe aujourd’hui*, Séminaire européen, Maison de la Recherche de L’Université de Lille 3**

**2010 – Lille (France) *L’art de prendre soin* - Séminaire européen, Maison de la Recherche de L’Université de Lille 3**

**2011 – Lille (France) *Le geste en musique*, Séminaire européen, Maison de la Recherche de L’Université de Lille 3**

**2011 – Lille (France) *Le Jeu d’Orchestre, Séminaire et Concert*, Maison de la Recherche de l’Université de Lille 3 et Palais Rameaux.**

**2012 – Istanbul (Turkey) - *Improving the Measurement of Disability and Ensuring Enabling Environment: Lessons from International Experience***

**2012 – Toronto (Canada) – DEEP: *Designing Enabling Economies and Policies***

**2012 – Milano (Italy) – *M-Enabling Briefing - “How to build applications and services for seniors and persons with disabilities” – SMAU***

**2012 - Paris (France) *L’Orchestre participative: lieu de résonance et de savoirs créatifs*, in Colloque Handicaps Créateurs.**

**2012 – Brescia (Italy) *The Orchestral Texture of the Mind, Harmonization and Modulation of Self*, Clinical Neuro-Musicology.**

**2013 – Paris (France) - *A predictive speller controlled by a brain-computer interface based on motor imagery*, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)**

**2013 – Washington DC (USA) - *M-Enabling Briefing – Global Summit on Accessible Mobile Technologies for Senior Citizens and Users of all abilities – Organized by G3ict, FCC, ITU***

**2013 – Lisbon (Portugal), Bruxelles (Belgio), Paris (Francia),** ICT4IAL Int. Workshop. *On contents Accessibility (for G3ict)*

**2013 – Lille (France)** *JeuD’Orcehstre® : la methodologie Esagramma pour les interventions en milieu carcéral* – Int. Conf. “Ethique et Creation en milieu carcéral”, Univ. Lille.

**2013 –Le Favril (France),** *Interaction Multimodale et Orchestrale* – Symposium ‘Développement Humain et milieu de vie’.

**2013 – Washington DC (USA),** *OrchestralMusicTherapy® and the Esagramma Symphonic Orchestra*, Georgetown University.

**2014 - Zurich (Switzerland), Bruxelles (Belgium), Paris (France),** ICT4IAL Int. Workshop. *On contents Accessibility (for G3ict)*

**2014 – Lille (France)** *Le Jeu d’Orchestre, Séminaire et Concert*, Palais Regional Nord Pas-de-Calais.

**2015 – Riga (Latvia), Bruxelles (Belgio), Paris (France),** ICT4IAL Int. Workshop on Contents Accessibility (for G3ict).

**2016 – Washington DC,** M-ENABLING Summit, (for G3ict).

**2016 – Bucarest (Romania)** – *Expert Advisory Committee Meeting* - International Association of Universities (IAU)

**2016 – Bangkok (Tailandia),** *International Annual Conference* - International Association of Universities (IAU)

**2017 – Città del Vaticano,** International Annual Conference, Pontifical Academy for Life.

**2017 – Paris (France),** *EU IN-ORCHESTRA* Project, on Academic and Artistic Inclusion

**2017 – Budapest (Hungary)** – International Inclusive Art festival - Academic and Artistic Inclusion

**2018 – Bucarest (Romania)** – Expert Advisory Committee Meeting - International Association of Universities (IAU)

**2018 – Città del Vaticano,** Workshop “Genius Vitae”, Invited Expert, and International Annual Conference, Pontifical Academy for Life.

**2018 – Usak (Turkey),** Univ. of Usak, *EU IN-ORCHESTRA Project*, on Academic and Artistic Inclusion

**2018 – Città del Vaticano,** International Annual Conference, Pontifical Academy for Life.

**2018 – Kuala Lumpur (Malaysia)** - Int. Conf. Higher education partnerships for societal impact - International Association of Universities (IAU).

**2018 – Lipsia (Germany)** –Contact Seminar for EU Project Proposals (KA1/KA2)

**2019 – Posdam (Germany)** – Workshop – Erasmus+ Higher Education Institutions of Art, Design, and Muisic as future “European Universities”? Innovative cooperation formats and thematic bridges.

**2019 – Città del Vaticano,** Workshop “Robo-Ethics: Human, Machines and Health”, Invited Expert, and International Annual Conference, Pontifical Academy for Life.

**2020 – Città del Vaticano,** Workshop “The ‘good’ algorithm? Artificial Intelligence, Ethics, Law, Health”, Invited Expert, and International Annual Conference, Pontifical Academy for Life.

**2021 – International Association of Universities, WW – Webinar,** “Health and Well-being in Higher Education. The Impact of the Pandemic and the PoliPsi Service”, October 12<sup>th</sup>, 2021.

## E. ONGOING RESEARCH PROJECTS

- **Since 2020:** Project **WorkingAge** (Smart Working Environments for all Ages) an European Union Horizon 2020 Project.
- **Since 2017:** Project **POLIPSI (POLIMI)** – Counseling and Psychotherapy for students of scientific and technological faculties. Computational Linguistics for the clinics: verbal and non verbal interaction analysis.
- **Since 2017:** Project **POLPSI-bot** (DEIB-POLIMI) – Deep Learning Techniques for Sentiment Analysis and Empathetic Conversational Agents
- **Since 2016:** Project **CALLIOPE** – Computational Prosodic Analysis for clinics and education
- **Since**Speech and Prosodic Analysis in critical Interactions
- **Since 2015:** Project **EVA** (Educazione Vocale Affettiva) – Fondazione Cariplo – Percorsi multimodali per l’autismo e la disabilità intellettiva
- **Since 1983:** Different projects *on: Psychology of Music, Music Therapy, Innovative Esagramma Methodologies* – Orchestral Music Therapy (MTO), Affective and Emotional Education (EVA and ECO), Multimedia ad Multimodal Interaction (IMM), and Music Virtual Opera (MVO) for kids and adults with Intellectual Disabilities and Autism, Specific Learning Difficulties, Psychological and Mental Difficulties.
- **Since 1989:** Project **Esagramma Symphonic Orchestra** (Esagramma) – As founder and chief of the inclusive orchestra involving professional musicians and musicians with intellectual disabilities and autism. The orchestra that played, a classical symphonic repertoire, at the Vatican Giubilee in 2000, at the European Parliament in Brussels in 2003, at the EurpaInTakt Festival in Dortmund in 2010,

at the International Music Festival of Pecs in 2011, in Linz in 2012, in the Northern Regions of France in 2012, at Georgetown University in Washington DC in 2013, in Lille in 2014, at Milano EXPO 2015, in Budapest in 2017 and in more than 150 Italian theatres, churches and festivals.

## F. PAST RESEARCH PROJECTS

- **1987-1991:** European project *ESPRIT “Comandos”*
- **1987-1996:** National projects financed by MURST (60%, 40%) on ICT, KBMS, Object-Oriented Conceptual Models
- **1987-1990:** National projects financed by CNR on ICT, KBMS, Object-Oriented Conceptual Models.
- **1989:** *CNR grant and Research Activity at Department of Computer Science, University of Toronto, pour le Canada et national prize for the obtained and published results* on Innovative KBMS and OO-languages.
- **1993-1994:** *Project RECORD* (Politecnico di Milano/ CEFRIEL) multimedia communication systems
- **1997-1998:** *Project MURST Distributed and multimedia systems* (director: Barbara Pernici).
- **1999-2000:** *Project MURST Mobile and distributed agents* (director: Carlo Ghezzi).
- **1999:** *MPI – PICTO Commission* – ICT supported learning for secondary school students.
- **1998-1999:** *AAC Project - Augmentative and Alternative Communication for Autism* (Politecnico di Milano - Fondazione Don Gnocchi di Milano)
- **2000-2002:** *European Project MOTION* – MOBILE Teamwork Infrastructure for Organizations Networking – *IST Project - Program V* – ICT services to support team work in distributed environments.
- **2000:** *MPI / AICA Commission – to study ICT programs for students of primary and secondary schools.*
- **2000-2004:** *Project Virtual Campus* (Politecnico di Milano – Microsoft Research UK) – Accessibility of the Politecnico di Milano Campus, courses, national and international services and activities.
- **2002-2006:** *Project MAIS* (MIUR - FIRB). Multichannel Adaptive Information Systems: personalized multimodal and multimedia solutions for students with disability, profiles of users, accessibility of learning contents, accessibility of cooperation and communication, e-Accessibility of e-learning, inclusive environments and social responsibility.
- **2004-2006:** *Project AAC Augmentative et Alternative Communication.* A text analyzer - based on NLP processing and iconic languages has been built. It analyzed the complexity of texts supporting the user with prediction of the following linguistic symbols (in cooperation with: Politecnico di Milano, Fondazione Mario Negri, Fondazione Benedetta D’Intino)
- **2004-2006:** *Project Navigabile* – A Web Accessible Portal to cultural services and events that allowed the usage of AAC and different iconic languages (in cooperation with: Politecnico di Milano, Fondazione Accenture, Fondazione Don Gnocchi, Fondazione Rava)
- **2004-2006:** *Project MultiAbile* (ICT4D) – New ICT technologies for persons with Disability and Specific Learning Difficulties: sensorial, motoric, cognitive education and rehabilitation (in cooperation with: Regione Lombardia – Politecnico di Milano, Eurocons, WebLearn, Mito, Unione Italiana Ciechi, Associazione Italiana per la Dislessia).
- **2006-2008:** *Project ESTEEM* (MIUR/PRIN, POLIMI: DEI) – Accessibility of mobile systems and accessible cooperation in virtual communities.
- **2006-2009:** *Project ART DECO* (MIUR/FIRB, POLIMI:DEI) – Adaptive InfRasTructures for DECentralized Organizations.
- **2006-2008:** *Project LaMusa* (Esagramma, Fondazione Umana-Mente, POLIMI: DEI) – Multimedia Communication and Multimodal Interaction for persons with Intellectual Disabilities and Autism.
- **2007-2012:** *Digital Accessibility Index for Persons with Disabilities* (UN - G3ict /ITU / POLIMI: DEI, Mcpt )
- **2007-2012:** *Toolkit for Policy Makers on e-Accessibility and Service Needs for Persons with Disabilities* (UN - G3ict / ITU / POLIMI: DEI, Mcpt )
- **2008-2010:** *Project UbiCampus* (MIUR – POLIMI: Mcpt, DEI, Metid, AATE, ASI) – Personalized services and user profiles in the wireless campus of Politecnico di Milano.
- **2008-2010:** *BCI/ Cognitive Science / Assistive Technology* (POLIMI: Mcpt, AIRLab) - Innovative and Accessible ICT solution for autonomous life of aged and disable persons.
- **2009-2010:** *Project 4Wheels* (IBM, POLIMI: Mcpt., DEI, AIRLab) – Personalized innovative solutions for the autonomous life of persons with motoric disabilities in a wireless environment.
- **2010-2013:** *ATIS4all* – Network of Excellence - Accessibility of ICT solutions for persons with

Disability

- **2010-2012: Project *Il Guscio e i Sogni***. (Esagramma, POLIMI: DEI) – Music Virtual Opera and Multimedia Inclusive Art for social inclusion and artistic expression.
- **2010-2012: Project *CATS*** (MIUR / POLIMI – UNIMORE – UNIMIB) – assistive technologies for learning - assistive solutions; support to learning activities for students with Specific Learning Difficulties and for students with Hypoacusia.
- **2010-2013: Project *POLI 4each & 4all*** (MIUR / POLIMI) – Accessibility of the Politecnico di Milano Campus.
- **2010-2014: Project *DIKE*** (POLIMI: DEIB) – Computational Linguistics for the analysis of forensic examinations
- **2012-2014: Project *Le Jeu d’Orchestre. Recherche-action en art dans les lieux de privation de liberté*** – (Univ. Lille 3 - France, Politecnico di Milano and Esagramma – Italy, Univ. Granada – Spain). Symphonic inclusive activities in 11 prisons in the Nord Pas-de-Calais County (France) that involved more than 600 prisoners (10% of them less than 18 years old).
- **2013-2015: Project *Inclusive Education***, Politecnico di Milano - Esagramma (Milano) – Centre de La Gabrielle (Claye-Souilly, France)
- **2013-2015: Project *ICT4IAL - ICT for Information Accessibility in Learning***, an European Agency Project.
- **2015-2016: Project *ATLAS*** – POLIMI – UNESCO – *The Unesco Atlas of the World’s Languages in danger*
- **2016-2019: Project *IN-ORCHESTRA*** – an Erasmus+ Project – *Inclusive Orchestral Education in Italy, France, and Turkey*.
- **2016-2019: Project *LYV*** (Lend Your Voice) – a Polimi PoliSocial Project - *Prosodic pathways for Kids and Adults with Autism and for non native English speakers with Specific Learning Difficulties*
- **2016-2019: Project *ECO*** (English Camp Orchestra) – Fondazione Sequeri Esagramma e Fondazione Cariplo – Music and Innovative ICT solutions to help students with Specific Learning Difficulties learning a non-transparent second language as the English one.

## G. ONGOING TEACHING ACTIVITIES

- **Since 2010:** titular professor of the course *Natural Language Processing: text and speech analysis* (in English) – Master Degree on Computer Science Engineering at **Politecnico di Milano**, Milano, Italy.
- **Since 2019:** titular professor of the course *Personality, Teambuilding, and Leadership at Politecnico di Milano*, Milano, Italy.
- **Since 2017:** teaching activity on *Knowledge and Communication of Self*: a bilingual experiential course involving Polimi students and PhD with psychological difficulties.
- **Since 2013:** teaching activity on *Cognitive and Constructivist Psychotherapy*: post-degree training at **Centro di Terapia Cognitiva**, Como, Italy.
- **Since 2016:** scientific direction and teaching activity - **MIUR first degree Master on “Musico Terapia Orchestrale ed Educazione Orchestrale Inclusiva a Metodo Esagramma®”** – at Scuola di Musica di Fiesole – Fiesole Italy – In cooperation with Fondazione Sequeri Esagramma Onlus, cooperative Sociale Esagramma Onlus, Scuola di Musica di Fiesole, Fondazione Spazio Reale.
- **Since 1987:** scientific direction and teaching activity - *Master on Orchestral Music Therapy and Music Virtual Opera* - Esagramma Center, Milano, Italy.
- **Since 1987:** invited teaching activity in academic and professional courses and seminars for musicians, psychologists and teachers on Psychology, Psychotherapy, Music, and Music Therapy.

## H. PAST TEACHING ACTIVITIES

- **1985-1987:** teaching activity – as assistant - at Università di Brescia on *Programming Languages*
- **1985-1990:** teaching activity – as assistant - at Politecnico di Milano on *Computer Architecture*.
- **1990-1992:** teaching activity – as assistant teacher and researcher - at Politecnico di Milano on *Computer Architecture* and *Fundamentals of Computer Science*
- **1991:** invited professor at *Univ. San Sebastian, Spain*, on *Object Oriented Data Models*.
- **1992-2004:** titular professor at Politecnico di Milano on *Fundamentals of Computer Science*.
- **1993-1998:** titular professor at Politecnico di Milano on *Fundamentals of Computer Science 2*.
- **1995:** teaching activity – as assistant teacher and researcher - at Politecnico di Milano of a PhD course on *Object Oriented Models*.

- **1998**: teaching activity on *Psychology of Music and Orchestral Music Therapy Multimodal - Master MusicAzione* - EU FSE project, in cooperation with the Toscana County.
- **2004-2006**: titular professor at Politecnico di Milano on *Formal Languages and Compilers*
- **2001-2004**: invited professor at *Università della Svizzera Italiana*, Lugano, Switzerland, on *Augmentative and Multimodal Communication* – Master Degree on Communication Technologies.
- **2004-2007**: invited professor at *Università della Svizzera Italiana*, Lugano, Switzerland, on *Human-Computer Interfaces* – Master Degree on Communication Technologies.
- **2006-2007**: invited professor at *Università della Svizzera Italiana*, Lugano, Switzerland, on *Models and instruments for Interaction* – Master Degree on Communication Technologies.
- **2007-2012**: invited professor at *Università della Svizzera Italiana*, Lugano, Switzerland, on *Human Computer Interaction* – Master Degree on Communication Technologies.
- **2008**: invited professor at Conservatorio di Musica di Lugano, Switzerland, on Psychology of Music
- **2005**: scientific direction and teaching activity on *Multimodal solutions for persons with Disability: the MultiAbile project* - EU FSE project, in cooperation with the Lombardia County
- **2010-2013**: invited professor of the course *Psychology of Music and Multimedia Interaction and Expression Analysis* - Master en *Art et Existence* at Université Charles De Gaulle, Lille3, Lille, France.
- **2009-2017**: titular professor of the course *Accessibility* (in English) – Master Degree on Computer Science Engineering at **Politecnico di Milano**, Milano, Italy.
- **Since 2010**: scientific direction and teaching activity - *Master for musicians, psychologists, and teachers*: post-degree training on Esagramma Methodologies®, certified by the Lombardia County.

## I. MOST RELEVANT PUBLICATIONS

### 2021

- *CALLIOPE: a multi-dimensional model for the prosodic characterization of Information Units*, coauthors: S. Cenceschi, and R. Tedesco, Estudios de Fonética Experimental. Journal of Experimental Phonetics XXX (2021), in press.
- *Static Fuzzy Bag-of-Words: a Lightweight and Fast Sentence Embedding Algorithm*, coauthors: M. Muffo, R. Tedesco, and V. Scotti, in Proceedings of the 4th International Conference on Natural Language and Speech Processing (ICNLSP 2021), Trento, Italy (to be held online), November 12-13, 2021, to appear
- *ITAcotron 2: Transferring English Speech Synthesis Architectures and Speech Features to Italian*, coauthors: A. Favaro, R. Tedesco, and V. Scotti, in Proceedings of the 4th International Conference on Natural Language and Speech Processing (ICNLSP 2021), Trento, Italy (to be held online), November 12-13, 2021, to appear
- *A Modular Architecture for Empathetic Conversational Agents*, coauthors: V. Scotti, and R. Tedesco, in Proceedings of IEEE International Conference on Big Data and Smart Computing, BigComp 2021, Jeju Island, South Korea (held online), January 17-20, 2021
- *Combining deep and unsupervised features for multilingual speech emotion recognition*, coauthors: V. Scotti, F. Galati, and R. Tedesco, in Pattern Recognition, ICPR International Workshops and Challenges - Milan, Italy (held online), January 10-15, 2021, Proceedings, Part II
- *The Radio-drama as artistic modality to improve the expressiveness skills in intellectual disability and autism: an experimental study*, coauthors: S. Cenceschi, and A. Imperatori Gelosa, Italiano LinguaDue, V. 12 N. 2, February 2021

### 2020

- *Combining deep and unsupervised features for multilingual speech emotion recognition*, coauthors: V. Scotti, F. Galati, and R. Tedesco, in CARE 2020, 20th International Workshop on Pattern Recognition for Positive Technology and Elderly Wellbeing, 2020
- *CALLIOPE: A multi-dimensional model for the prosodic characterization of Information Units*. Coauthors: S. Cenceschi, R. Tedesco, ESSLLI 2020 SemSpace2020 Workshop, Utrecht, The Netherlands August 8-9, 2020
- *Monitoring over time the vocal expressive skills of speakers with cognitive disabilities and autism*, coauthor: S. Cenceschi, 5th International techLING Congress - Languages, Linguistics and Technology, University of Aveiro, Portugal (2020)
- *Decision Support Systems to Promote Health and Well-being of People during their Working Age: the Case of the WorkingAge EU Project*. Coauthors: R. M. Resende de Almeida, A. Grau Aberturas, Y. Bueno Aguado, M. Atzori, A. Barenghi, G. Borghini, C. A. Catalina Ortega, S. Comai, R. Losada Durán, M. Fugini, H. Gunes, B. Musleh Lancis, G. Pelosi, V. Ronca, R. Tedesco, and T. Xu, in

Proceedings of Embedded Computer Systems: Architectures, Modeling, and Simulation 20th International Conference, SAMOS 2020, Samos, Greece (held online), July 5-9, 2020

- **Attending Participatory Orchestral Sessions for the Training of Psychotherapists. A case study**, coauthors: F. Vergani, and S. Bourgraff, in ICERI2020, Virtual, 9-10 Nov., 2020, pp. 5620-5633.

- **Teaching Soft Skills through Experiential Courses during the COVID-19 Sanitary Emergency**, accepted for presentation and publication in Proceedings of EDULEARN 2020, Telematic Edition (Spain), 6-7 July 2020

## 2019

- **PESInet: Automatic Recognition of Italian Statements, Questions, and Exclamations With Neural Networks**, coauthors: S. Cenceschi, R. Tedesco, D. Losio, and M. Luchetti in *Sixth Italian Conference on Computational Linguistics (CLIT-it)*, Bari (Italy), 2019.

- **SFERAnet: automatic generation of football highlights**, coauthors: V. Scotti, and R. Tedesco, in *6th International Conference on Computer Science, Engineering and Information Technology (CSEIT)*, Zurich (Switzerland), 2019

- **Collecting italian spontaneous social media speech: the WAsp2 project**, coauthors: S. Cenceschi, A. Trivilini, and R. Tedesco, in XV Convegno AISV, Arezzo (Italy), 2019.

## 2018

- **Fattori sociali e biologici nella variazione fonetica**, coauthors: S. Cenceschi, R. Tedesco, in C. Bertini, C. Celata, G. Lenoci, C. Meluzzi, and I. Ricci (Eds), AISV – Associazione Italiana Scienze della Voce, 2018, p. 433–440.

- **How to simplify human-machine interaction: a text complexity calculator and a smart spelling corrector**, coauthor: R. Tedesco in *GOODTECHS 2018 – 4th EAI international conference on smart objects and technologies for social good*, Bologna (Italy), 2018, p. 2.

- **Influence of semantics on the perception of corrective focus in spoken italian language**, coauthors: S. Cenceschi, and R. Tedesco in *Proceedings of the 9th tutorial & research workshop on experimental linguistics*, Paris (France), 2018, p. 21–24.

- **Towards automatic recognition of prosody**, coauthors: S. Cenceschi, and R. Tedesco in *Proceedings of speech prosody*, Poznan (Poland), 2018.

- **Computational Linguistics for Reasonable Accommodation and inclusive academic contexts**, in S. Pace, M. Pavone, D. Petrini, *UNiversal Inclusion. Rights and Opportunities for Students with Disabilities in the Academic Context*, Franco Angeli, 2018

- **Verso il riconoscimento automatico della Prosodia**, coauthors: S. Cenceschi, R. Tedesco, in *STUDI AISV - La fonetica sperimentale nell'insegnamento e nell'apprendimento delle lingue straniere Proceedings of the "XII° Convegno Nazionale dell'AISV (Associazione Italiana di Scienze della Voce)*, n. 2, 2018

- **Co-construction of meaning in shared Bilingual Psychotherapies. Reflections of bilingual psychotherapists during bilingual psychotherapies**, coauthor J. Scupelli, Poster at XIX Convegno Nazionale SITCC, Verona (Italy), Sept. 2018

- **Intonare la relazione terapeutica nei momenti di 'perturbazione orientata' e di 'messa in moviola'**, *Communication at XIX Convegno Nazionale SITCC*, Verona (Italy), Sept. 2018

## 2017

- **The definition of a descriptive space of prosodic forms: The CALLIOPE model**, coauthors: S. Cenceschi, R. Tedesco, *XIII° AISV National conference on science of voice conference*, Scuola Normale Superiore di Pisa, Pisa, Italy, January, 2017.

- **Speech improvement for intellectual disabilities and autism: an experimental study on technological supports**, coauthors: S. Cenceschi, G. Cordaro, A. Imperatori Gelosa, C. Pagliardini, *Proceedings of the International Conference EDULEARN 2017*, Barcellona, Spain, July, 2017.

## 2016

- **Acoustic and grammatical characterization of crisis-related babblings in Italian persons undergoing Courts-of-Law examinations**, coauthors: R. Tedesco, S. Cenceschi, Poster and Paper, *Proceedings of International Conference on Speech Communication 2016 (ITG 2016)*, ITG Symposium on Speech Communication, Paderborn, Germany, October, 2016.

- **Crises during forensic examinations: observations and measurements in Italian spontaneous speech**, coauthors: S. Cenceschi e R. Tedesco, Poster in *Proc. Int. Conf. 25th annual conference of the International Association for Forensic Phonetics and Acoustics (IAFPA 2016)*, York (UK), July, 2016



- **CALD – Una rete per l’inclusione. Scritti in memoria di Walter Fornasa** (curatela con E. Borgonovi e R. Garbo), Franco Angeli, 2016
- **Innovazione tecnologica e ricerca applicata per l’accessibilità e la personalizzazione dei percorsi e dei contesti accademici**, in *CALD – Una rete per l’inclusione. Scritti in memoria di Walter Fornasa* (a.c.d. E. Borgonovi, R. Garbo, L. Sbattella), Franco Angeli, 2016
- **Sintassi musicale degli affetti e neuroscienze. Riscrittura discorsiva della risonanza e narrazione simbolica del tempo**, in P. Sequeri, *Deontologia del Fondamento*, Giappichelli, 2016.
- **Educazione Vocale e Affettiva. L’accompagnamento dell’adulto con disabilità intellettiva tra espressione artistica e psicoterapia**. Atti del Convegno “La Persona Down. Incontro con il futuro”, Varese, October, 2016.
- **Il gesto orchestrale che intona la relazione**, Atti del Convegno “I gesti che curano”, Università Milano Bicocca, Milano, 2016.

## 2015

- **Students with specific learning difficulties at Politecnico di Milano: ICF\* profiles, innovative ICT solutions, and curricular results**, coauthors: G. Cordaro, D. Forloni, S. Sbattella, and R. Tedesco, in *Proceedings of the INTED conference*, Valencia, Spain, 2015.
- **Music, English and Dyslexia. Orchestral and prosodic multimodal pathways to support the second-language learning of students with Specific Learning Difficulties**, coauthors: G. Cordaro, C. Pagliardini, G. Rubino, and F. Vergani, in *Proceedings of International Conference of Education, Research and Innovation (ICERI)*, Seville, Spain, 2015.
- **Le Jeu d’Orchestre. Recherche-action dans les lieux de privation de liberté**, co editors: M. P. Lassus, M. Le Piouff, Septentrion, 2015.
- **Le Jeu d’Orchestre pour croître ensemble**, in in *Le Jeu d’Orchestre. Recherche-action dans les lieux de privation de liberté*, co editors: M. P. Lassus, M. Le Piouff, Septentrion, 2015, pp. 31-52.
- **Réécriture du temps et modulation de soi dans les parcours du JeuD’Orchestre®**, in *Le Jeu d’Orchestre. Recherche-action dans les lieux de privation de liberté*, co editors: M. P. Lassus, M. Le Piouff, Septentrion, 2015, pp. 131-154.
- **JeuD’Orchestre®: la méthodologie Esagramma en milieu carcéral**, in *Le Jeu d’Orchestre. Recherche-action dans les lieux de privation de liberté*, co editors: M. P. Lassus, M. Le Piouff, Septentrion, 2015, pp. 71-95.

## 2014

- **Kaspar: a prosodic multimodal software for dyslexia**, coauthors: R. Tedesco, and S. Cenceschi, in *Proceedings of International Conference of Education, Research and Innovation (ICERI)*, Seville, Spain, 2014.
- **Extracting emotions and communication styles from prosody**, coauthors: L. Colombo, C. Rinaldi, R. Tedesco, M. Matteucci, and A. Trivilini, in H. P. da Silva, A. Holzinger, S. Fairclough, and D. Majoe, Eds., *LNCS*, Springer-Verlag Berlin Heidelberg, 2014, vol. 8908, pp. 20-41.
- **Forensic examinations: computational analysis and information extraction**, coauthors: R. Tedesco, and A. Trivilini, in *Proceedings of the 2nd International Conference on Forensic Science – criminalistic research (FSCR)*, Singapore, 2014.

## 2013

- **A novel Semantic Information Retrieval system based on a three-level model**, coauthor: R. Tedesco, *Journal of Systems and Software*, vol. 86, n. 5, pp. 1426—1452, May 2013.
- INVITED PAPER after TOCHI: **A predictive speller controlled by a brain-computer interface based on motor imagery**, coauthors: T. D’Albis, M. Matteucci, L. Sbattella, R. Blatt, and R. Tedesco, *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Paris (France), 2013.
- **Extracting emotions and communication styles from vocal signals**, coauthors: L. Colombo, C. Rinaldi, R. Tedesco, M. Matteucci, and A. Trivilini, in *Proceedings of the International Conference on Physiological Computing Systems (PhyCS)*, Lisbon, Portugal, 2013.
- **ICT accessibility: the challenge to improve information literacy for university students with disabilities** coauthors: R. Tedesco, and S. Sbattella, in *Proceedings of the European Conference on Information Literacy (ECIL)*, Ankara, Turkey, 2013.
- **Innovative ICT solutions supporting students with Learning Disability and Hearing Impairments during classes**, coauthor: R. Tedesco, in *Assistive technology: from research to practice, proceedings of AAATE13*, Vilamoura, Portugal, 2013, pp. 1171-1178.
- **Educational Support and Employment Services: a case study for students with disability**, coauthors: A. Ferrari, D. Forloni, in *Proceedings of Proceedings of Int. Conference on Education, Research and Innovation (ICERI)*, Seville, Spain, 2013.

- ***PoliSpell: an adaptive spellchecker and predictor for people with dyslexia***, coauthors: A. Quattrini Li, and R. Tedesco. Proceedings of the 21st Conference on User Modeling, Adaptation and Personalization (UMAP 13), Rome, Italy, 2013.
- ***OrchestralMusicTherapy® and Autism: the application of the OMT observation protocol to evaluate the cognitive and relational development of four autistic children***, coauthors: G. Cordaro, B. Tarantino, and R. Tedesco, in *Proceedings of Int. Conference on Education, Research and Innovation (ICERI)*, Seville, Spain, 2013.
- ***Ti penso, dunque suono. Costrutti cognitivi e relazionali del comportamento musicale***, Vita e Pensiero, Milano, 2013.

## 2012

- ***A predictive speller controlled by a brain-computer interface based on motor imagery***, coauthors: T. D'Albis, M. Matteucci, R. Blatt, and R. Tedesco, *ACM Transactions on Computer-Human Interaction*, vol. 19, n. 3, pp. 20:1-20:25, October 2012
- ***Knowledge Extraction from Natural Language Processing***, coauthor: R. Tedesco, in G. Anastasi, et al. (eds.). *Methodologies and Technologies for Networked Enterprises*. Springer-Verlag, 2012.
- ***Ontology-based Knowledge Elicitation: An Architecture***, coauthors: M. Montedoro, G. Orsi, and R. Tedesco, in G. Anastasi et al. (eds.). *Methodologies and Technologies for Networked Enterprises*. Springer-Verlag, 2012.
- ***Integrated and innovative solutions to support deaf students during class attendance***, coauthor: R. Tedesco, In *Proceedings of ULD@ICCHP*, Linz, Austria, 2012.
- ***Multimodal Interaction Experience for Users with Autism in a 3D Environment***, coauthors: R. Tedesco and A. Trivilini, 6th European Conference on Games Based Learning (ECGBL 2012), Cork, Ireland, 2012.
- ***Calculating text complexity during the authoring phase – RDWG Symposium on Easy-to-Read on the Web***, coauthor: R. Tedesco, *Proceedings of the W3C RDWG Easy-to-Read on the Web Online Symposium*, 2012
- ***Dialogues Polyphoniques et Jeu d'Orchestre. Harmonization et modulation de Soi***. Esagramma 2012.
- ***L'Orchestre participative: lieu de résonance et de savoirs créatifs***, in *Colloque Handicaps Créateurs*, Paris, France, 2012
- ***Dialoghi polifonici e disarmonia delle parti. I percorsi orchestrali di Esagramma***, in “Tutta la musica per tutti, tra fare e capire”, Convegno SIEM, Milano, Italy, 2012.
- ***Accessibilità della Tecnologia Informatica: innovazione, ricerca, formazione e sviluppo***, in “Il lavoro come integrazione di abilità”, *Handimatica*, Bologna, Italy, 2012.
- ***L'efficacia della MusicoTerapiaOrchestrale***, in “Il ruolo dell'Arte e dell'ambiente nella cura dei pazienti in ospedale”, *Fondazione Bracco*, Milano, Italy, 2012.

## 2011

- ***The CATS project***. In *Proceedings of SSITE International Conference on Computers and Advanced Technology in Education ICCATE 2011*, coauthors: R. Tedesco, A. Quattrini Li, E. Genovese, M. Corradini, G. Guaraldi, R. Garbo, A. Mangiatordi, et S. Negri, Beijing, China, 2011.
- ***Knowledge Extraction from Natural Language Processing***, coauthor: R. Tedesco, in G. Anastasi, E. Bellini, E. Di Nitto, C.Ghezzi, L. Tanca, et E. Zimeo (eds.). *Networked Enterprises*. Springer, 2011.
- ***Ontology-based Knowledge Elicitation: An Architecture***, coauthors: M. Montedoro, G. Orsi, R. Tedesco, in G. Anastasi, E. Bellini, E. Di Nitto, C.Ghezzi, L. Tanca, et E. Zimeo (eds.). *Networked Enterprises*. Springer, 2011.
- ***Multimodal Interaction for users with Autism in a 3D Educational Environment***, coauthors: R. Tedesco, A. Trivilini, *Proceedings IADIS 2011*, Roma, Italy, 2011.
- ***Supporting note-taking in multimedia classes: PoliNotes*** - coauthors: A. Marrandino, R. Tedesco, *Proceeding ITHET 2011*, Kusadasy (Turkey),
- ***Competenze e responsabilità per la vita adulta***, “La persona Down e il mondo del lavoro”, R. Dionigi, G. Brebbia (eds), *Insubria University Press*, Varese, 2011

## 2010

- ***Natural language processing for storytelling and role playing: a training system based on the Propp model***, coauthors: M. Despontin, et R. Tedesco, in *Proceedings of the International Conference of Education, Research and Innovation (ICERI)*, November 15-17 2010, Madrid, Spain.
- ***Accessible ICT for Vocational Education and Employment***, 4<sup>th</sup> European eAccessibility Forum, 2010, Paris, France, 2010.

- **Personalizing and making accessible innovative academic services using ICF\*, an extended version of the WHO ICF model**, coauthors: R. Tedesco, G. Pegorari, in *Proceedings of INTED 2010*, Valencia (Spain), 2010.

## 2009

- **Dislessia e Università: l'esperienza del Politecnico di Milano**, “Dislessia e Università. Esperienze e interventi di supporto”, E. Genovese et al. (eds), Erickson, Trento, Italy, 2009

- **Quando diventare orchestrali fa la differenza. Il lavoro con la musica e il lavoro della musica nell'esperienza educativa e riabilitativa di Esagramma**, Atti Conv. La persona Down. Progettiamo un futuro adulto, R. Dionigi e G. Brebbia (eds), Insubria Univ Press, Varese, Italy, 2009

## 2008

- **Learning Math for Visually Impaired Users**, ICCHP 2008, Linz (Austria). Coauthors: T. Barbieri, L. Mosca

- **Informatica: arte e mestiere**. Coauthors (I ed. and II ed.): S. Ceri, D. Mandrioli. Coauthors (III ed.): D. Mandrioli, S. Ceri, P. Cremonesi, G. P. Cugola. Mc Graw Hill, 2008 (III), 2004 (II), 1999 (I).

- **Le défi de la complexité: harmoniser et composer**, in Proceedings of “La formativité del musicale”, Esagramma, Milano, Italy, 2008.

- **Il sesto rigo di Esagramma. Percorsi orchestrali “fuori dal comune”**, *Servire*, n. 2, 2008.

## 2007

- **Haptic and Aural Graphs Exploration for Visually Impaired Users**, coauthors: T. Barbieri, L. Mosca, CVHI 2007, Granada, Spain, 2007.

## 2006

- **Providing Enhanced Content Accessibility to Images for Visually Impaired Users**, coauthor: T. Barbieri, in “Specialized Training Course ICTs in Education for People with Special Needs”, Tokareva N., Kotsik B. (eds), UNESCO Institute for Information Technologies in Education, Moscow, Russia, 2006.

- **MultiLezi: Implementation of an Adaptive Multichannel Learning Environment**, coauthors: T. Barbieri, A. Bianchi, S. Bruna, L. Mainetti, in *Mobile Information Systems. Infrastructure and Design for Adaptivity and Flexibility*, Pernici B. (ed), Springer 2006.

- **Functional Interaction Abilities: Conceptual Model of the User Context**, coauthors: P. Graziani et al., in *Mobile Information Systems. Infrastructure and Design for Adaptivity and Flexibility*, Pernici B. (ed), Springer 2006.

- **Disability and Advanced Research at the Politecnico di Milano (editor)**, *Politecnico – rivista del Politecnico di Milano*, n. 10, Milano, Italy, 2006.

- **Virtual Reality for education and rehabilitation**, coauthors: A. Bianchi, T. Barbieri in *Disability and advanced Research at Politecnico di Milano*, L. Sbattella (ed.), *Politecnico – rivista del Politecnico di Milano*, n. 10, 2006.

- **Computational Linguistics for learning and language impairments**, coauthors: M. Matteucci, N. Gatti, B. Dal Seno, A. Bianchi, in *Disability and advanced Research at Politecnico di Milano*, L. Sbattella (ed.), *Politecnico – rivista del Politecnico di Milano*, n. 10, 2006.

- **MAIS MultiLezi: an adaptable multichannel and multimodal environment for e-learning**, coauthors: L. Mainetti, T. Barbieri, A. Bianchi, S. Bruna, B. Pernici, in *Disability and advanced Research at Politecnico di Milano*, L. Sbattella (ed.), *Politecnico – rivista del Politecnico di Milano*, n. 10, 2006.

- **Supporting Interoperability and Reusability of Learning Objects: The Virtual Campus approach**, coauthors: E. Di Nitto, L. Mainetti, M. Monga, L. Sbattella, et R. Tedesco, in *IEEE TCLT Educational Technology & Society Journal*, Special Issue on Interoperability of Educational Systems. Vol. 9, n. 2, 2006.

- **Informatica: programmazione**, coauthors: S. Ceri, D. Mandrioli. Mc Graw Hill, 2006 (III), 2000 (I).

- **La mente orchestra. Elaborazione della Risonanza e Autismo**. Vita e Pensiero, Milano, Italy, 2006.

- **Elaborazione della risonanza e musicoterapia orchestrale**, “Ad ogni stagione la sua arte. L'età adulta: diversi ... e di successo”, Libreria Editrice Universitaria Verona, 2006.

- **Disabili? Ecco l'orchestra. Il lavoro con la musica, il lavoro della musica**. FOR – numero speciale: formazioni eretiche: le altre facce dell'apprendimento, suppl. al n. 66, 2006

## 2005

- **National Copyright - Brevetto Nazionale Depositato “Apparato e Metodo per l'esplorazione di oggetti grafici per utenti non vedenti”**, coauthor: T. Barbieri registered in Milano on June 6, 2005; Owner: Politecnico di Milano.

- ***MultiAbile: a multimodal learning environment for the inclusion of impaired e-Learners using tactile feedbacks, voice, gesturing, text simplification***, coauthors: T. Barbieri, A. Bianchi, F. Carella, M. Ferra, Assistive Technology shaping the future, AAATE 2005, Lille (France).
- ***User Linguistic Model Adaptivity for Prediction in AAC Message Composition***, coauthors: N. Gatti, M. Matteucci Proc. Eleventh Int. Conf. on Human Computer Interaction, HCII 2005, Las Vegas (USA).
- ***Managing electronic content for automatic adaptation to the user profile: the experience of Project MultiAbile for the inclusion of impaired e-Learners***, coauthors: T. Barbieri, A. Bianchi, F. Carella, M. Ferra, P. Santini. Electronic Publishing, ELPUB 2005, Leuven (Belgio).
- ***Modulazione musicale dei tratti cognitivi e comportamentali: itinerari di specializzazione***, in *Il Suono della Vita*, Giulia Cremaschi Trovasi, Mauro Scardovelli (eds.), Armando Editore, 2005.

#### 2004

- ***Multimodal Communication for Vision and Hearing Impairments***, coauthors: T. Barbieri, A. Bianchi, in Proc. Conference and Workshop on Assistive Technologies for Vision and Hearing Impairment (CVHI 2004), Granada (Spain).
- ***"Minus Two": a cooperative and multimodal virtual environment to communicate with children with autism and mental diseases***. ICCHP 2004, Paris, (France). Coauteurs: A. Bianchi, T. Barbieri.
- ***Innovative Learning and Teaching Scenarios in Virtual Campus***, coauthors: M. Cesarini, S. Guinea, R. Tedesco – in Proc. ED-MEDIA 2004, Lugano (Switzerland).
- ***An Adaptive and Predictive environment to Support Augmentative and Alternative Communication***, ICCHP 2004, Paris, (France). Coauteurs: N. Gatti, M. Matteucci.
- ***Profiling users in "Virtual Campus". The adaptability of an advanced and distributed learning environment***, coauthor: R. Tedesco, in Proc. ITHET 2004, Istanbul (Turchia).
- ***Trasformazioni***. *L'erbamusica*, n. 48 - 2004
- ***Difficoltà di identificazione e mediatori simbolici. Contesti informatico-multimediali di relazione, cooperazione e apprendimento***. *Nuove dipendenze nella società dell'informazione*. Conv. Naz. Ordine degli Psicologi, sez. Piemonte, maggio 2004, Torino (Italia).

#### 2003

- ***Virtual Sounds and Virtual Spaces to support persons with cognitive and physical disabilities during Information Retrieval, Rehabilitation and Learning***, coauthor: T. Barbieri, in Proc. Assistive Technology shaping the future, AAATE 2003, Dublin (Ireland).
- ***Tutoring and Validation in the Virtual Campus Environment***, coauthor: E. Di Nitto, L. Redaelli, R. Tedesco, in Proc. Interactive Computer Active Learning (ICL 2003), Villach (Austria).
- ***Iniziazione***. *L'erbamusica*, n. 45 – 2003.
- ***Lavoro Musicale e Contesto Riabilitativo. L'orientamento formativo di Esagramma***, Rotary, n.7 - 2003

#### 2002

- ***A Virtual Campus For Tethered And Untethered Scenarios***, coauthors: L. Mainetti, M. Monga, in Proc. Frontiers in Education (FIE 2002), Boston (Massachusetts).
- ***La Mente Orchestra***. *L'erbamusica*, n. 44 – 2002.

#### 2000

- ***Distributed and Cooperative Story Telling for the treatment of cognitive and relational disorders***, coauthors: C. Bellettini, A. Bianchi, in Proc. ICCHP2000, Int. Conf. on Computers Helping People with Special Needs, Karlsruhe (Germany), July 2000.

#### 1999

- ***Inventiamoci una storia. Nuove opportunità multimediali e percorsi educativi***, *L'erbamusica*, n. 35-1999.
- ***Educazione Musicale Differenziale e Autismo Infantile. Interventi Non Convenzionali di Aiuto alla Persona***, Conv. Naz. *L'arte e la musica per la medicina*, Maggio 1999, Cinisello Balsamo (Italia).

#### 1998

- ***The Art and Science of Computing***, coauthors: S. Ceri, D. Mandrioli, Addison Wesley, 1998.
- ***Istituzioni di Informatica / linguaggio C***, coauteurs: S. Ceri, D. Mandrioli, Mc Graw Hill, 1998 (II), 1994 (I).
- ***Linguaggio C***, coauthors: C. Bellettini, S. Filippi, Esculapio, 1998.
- ***Educazione Musicale Differenziale. Formazione professionale. Corsi di introduzione e perfezionamento***, *L'erbamusica*, nn. 25/26 – 1997, n. 29 – 1998.
- ***L'arte del coraggio. Un modello sistemico-relazionale per la riabilitazione psichiatrica***, *L'erbamusica*,

n. 30/31-1998.

- *Prova l'orchestra. Ai piccoli dell'uomo (anche a quelli in difficoltà) piace suonare Strawinskij*. Riza Scienze, n. 129 - 1998

**1997**

- *La musica è un linguaggio? Considerazioni su una metafora (utile e ingombrante) del comportamento musicale dell'uomo*, *L'erbamusica*, n. 27-1997

**1996**

- *An Overview of the Comandos Integration System*, coauthors: E. Bertino, M. Negri, in *Object Oriented Multidatabase Systems*, O. Bukhres and A. K. Elmagarmid (ed), Prentice Hall, 1996.

**1995**

- *Istituzioni di Informatica / linguaggio Pascal*, coauthors: S. Ceri, D. Mandrioli, Mc Graw Hill, 1995.

**1994**

- *Applications of Object Oriented Technology to the Integration of Heterogeneous Database Systems*, coauthors: E. Bertino, M. Negri, G. Pelagatti, *Distributed and Parallel Databases*, vol. 2, n. 4, 1994.

- *An OO approach to Spatial Databases*, coauthor: C. Sacchi, in Proc. EGIS'94, Paris (France), 1994.

**1993**

- *SITDOC a metaknowledge manager*, coauthor: A. De Luigi, in Proc. EGIS'93, Genova (Italy), 1993.

**1992**

- *Object Oriented Query Languages: the notion and the issues*, coauthors: E. Bertino, M. Negri, G. Pelagatti, *IEEE Transactions on Knowledge and Data Engineering*, vol. 4, n. 3, 1992.

- *Query Optimization for KBMS*, coauthors: A. Illarramendi, T. Topaloplou, in Eight Int. Conf. on Data Engineering, Phoenix (Arizona), 1992.

**1991**

- *Formal Semantics of SQL Queries*, coauthors: M. Negri, G. Pelagatti, *ACM Transactions on Database Systems (TODS)*, vol. 17, n. 3, 1991.

- *Adapting text to data in documents through a natural language processor*, coauthors: M. Negri, G. Pelagatti, *Information Systems*, vol. 16, n. 1, 1991.

- *Design and Implementation of a Geographic information System*, coauthors: M. Negri, G. Pelagatti, in Proc. EGIS'91, Brussels (Belgio), 1991.

- *Syntactic Query processing: dealing with structure and time*, coauthor: A. Illarramendi in Proc. DASFAA'91, Tokyo (Japan), 1991.

**1990**

- *An Object Oriented data model for distributed office applications*, coauthors: E. Bertino, M. Negri, G. Pelagatti, in Proc. COIS'90, MIT-Cambridge (MA), 1990.

- *Il problema di un'educazione musicale differenziale: ipotesi di ricerca e sperimentazione*, coauthors: P. Sequeri, L. De Rino, V. Paoli, in *Musicoterapia: esperienze e riflessioni*, M. Piatti e P. Postacchini (eds.), *Quaderni di Musica Applicata*, PCC, n. 12-1990.

**1989**

- *Semantics and problems of Universal Quantification in SQL*, coauthors: M. Negri, G. Pelagatti, *The Computer Journal*, vol. 32, n. 1, 1989.

- *Integration of Heterogeneous Database Applications through an Object Oriented interface*, coauthors: E. Bertino, M. Negri, G. Pelagatti, *Information Systems*, vol. 14, n. 5, 1989.

- *An Object Oriented Approach to the Interconnection of Heterogeneous Databases*, coauthors: M. Negri, G. Pelagatti, in Proc. Int. Workshop on heterogeneous Databases, Evanstone Illinois, 1989.

**1988**

- *The Comandos Integration System: an Object-Oriented Approach to the Interconnection of Heterogeneous Applications*, coauthors: E. Bertino, R. Gagliardi, M. Negri, G. Pelagatti, in *Advances in Object Oriented Database Systems*, K. R. Dittrich (ed) 2<sup>nd</sup> int. Workshop on OODB Systems, Bad Munster FRG, 1988.

**1987**

- *Elementi di architettura e realizzazione dei calcolatori*, coauthor: G. Pelagatti, Clup, Milano, 1987.

Milano, October 2021

L. Stettin