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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, 2014⁴, 2008³, 2004², 1999¹; *Istituzioni di Informatica*, Mc Graw Hill, 1995³, 1994², 1993¹.

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).

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 Jubilee 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
- **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
- **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-sostegno-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). 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).
- **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;
- 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.
- Counseling and Psychotherapy

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) – 4th 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’Orchestra® : 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’Orchestra, 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 Music 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.

E. ONGOING RESEARCH PROJECTS

- **Since 2017:** Project *POLPSI (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 2016:** *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: Mept., 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.
- **2020-2022: Project WorkingAge** (Smart Working Environments for all Ages) an European Union Horizon 2020 Project.

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

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 terapeutico 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

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