

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) **Ferro, Marcello**
Address(es) Via Moruzzi 1, 56124 Pisa (PI), Italy
Telephone(s) +39.050.315.3487
Fax(es) +39.050.315.2839
Email(s) marcello.ferro@ilc.cnr.it
Nationality(-ies) Italian
Date of birth August 19th, 1974
Gender male
Homepage <http://www.ilc.cnr.it/~ferro/>

Occupational field

Neuro-computational architectures of the mental lexicon

Work experience

Current position	Researcher, Istituto di Linguistica Computazionale (ILC), CNR Pisa
Dates	from 31/12/2012 till today
Occupation or position held	Researcher
Main activities and responsibilities	Design and development of neuro-computational models for linguistic tasks in ecological environments monitored by sensors
Name and address of employer	Istituto di Linguistica Computazionale "Antonio Zampolli" (ILC), Consiglio Nazionale delle Ricerche (CNR) - Via Moruzzi 1, Pisa (PI), Italy
Type of business or sector	Computational linguistics
Dates	from 01/06/2010 to 30/12/2012
Occupation or position held	Researcher t.j. art. 23
Main activities and responsibilities	Design and development of neuro-computational models for linguistic tasks in ecological environments monitored by sensors
Name and address of employer	Istituto di Linguistica Computazionale "Antonio Zampolli" (ILC), Consiglio Nazionale delle Ricerche (CNR) - Via Moruzzi 1, Pisa (PI), Italy
Type of business or sector	Computational linguistics
Dates	from 01/06/2009 to 31/05/2010
Occupation or position held	Research grant
Main activities and responsibilities	Design and development of neuro-computational models for linguistic tasks in ecological environments monitored by sensors
Name and address of employer	Istituto di Scienze e Tecnologie della Cognizione (ISTC), Consiglio Nazionale delle Ricerche (CNR) - Piazzale Aldo Moro 7, Roma (RM), Italy
Type of business or sector	Computational linguistics

Dates	from 01/03/2009 till today
Occupation or position held	President, founder
Main activities and responsibilities	Design, development and commercialisation of innovative products with high technical added-value
Name and address of employer	ADATEC s.r.l, sensing & automation - Via Giuntini 13, Navacchio (PI), Italy
Type of business or sector	Electronics and automation
Dates	from 01/02/2007 to 30/04/2007
Occupation or position held	Collaboration
Main activities and responsibilities	Design and development of an electronic device for the survey and the analysis of the flow of motor vehicles through urban and extra-urban roadways
Name and address of employer	Liberologico s.r.l - Via Gozzini 15/17, Pisa (PI), Italy
Type of business or sector	Electronics and informatics
Dates	from 01/02/2006 to 31/05/2009
Occupation or position held	Research grant
Main activities and responsibilities	Design and development of a software architecture for the automatic control of dynamic stimuli of sensorised tissues
Name and address of employer	Centro Interdipartimentale di Ricerca "E. Piaggio", Facoltà di Ingegneria, Università degli studi di Pisa - Via Diotisalvi 2, Pisa (PI), Italy
Type of business or sector	Bioengineering
Dates	from 01/01/2006 to 31/01/2006
Occupation or position held	Consultancy
Main activities and responsibilities	Design and development of a software architecture for the automatic control of dynamic stimuli of sensorised tissues
Name and address of employer	Centro Interdipartimentale di Ricerca "E. Piaggio", Facoltà di Ingegneria, Università degli studi di Pisa - Via Diotisalvi 2, Pisa (PI), Italy
Type of business or sector	Bioengineering
Dates	from 20/05/2005 to 30/04/2013
Occupation or position held	Collaboration
Main activities and responsibilities	Design, development and maintenance of a web-based Blending Model for the real-time management of chemical plants in refineries and for the optimisation of CFPP-Improver Treat-Rate
Name and address of employer	BASF s.r.l., the chemical company - Carl-Bosch-Str. 38, Ludwigshafen, Germany
Type of business or sector	Informatics and industrial chemistry
Dates	from 01/03/2004 to 30/04/2004
Occupation or position held	Collaboration
Main activities and responsibilities	Design and development of firmware and software libraries for the management of questionnaires through remote controls
Name and address of employer	EBB s.r.l. - Via Pertini 47, Calcinaia (PI), Italy
Type of business or sector	Electronics and microcontrollers
Dates	from 01/03/2003 to 30/04/2003
Occupation or position held	Collaboration
Main activities and responsibilities	Teacher of C++ and VisualC++ for the education of six employers of Magona s.p.a. (Piombino) within the software development of company activities for control and data processing
Name and address of employer	Scuola di Informatica s.r.l. - Corso Italia 124, Piombino (LI), Italy
Type of business or sector	Informatics teaching
Dates	from 30/01/2003 to 16/05/2003
Occupation or position held	Collaboration
Main activities and responsibilities	Design and development of "Administrative Courses Management (GAC)" for the Public Administration Superior School (SSPA) in Roma

Name and address of employer
Type of business or sector

Lutech s.p.a. - Via del Maggiolino 125, Roma (RM), Italy
Informatics

Dates

from 01/01/2000 to 31/12/2002

Occupation or position held
Main activities and responsibilities

Collaboration
Design and development of software solutions

Name and address of employer
Type of business or sector

AllWeb international s.a.s. - Via Isonzo 42, Roma (RM), Italy
Informatics

Professional qualifications

Dates

09/03/2009

Qualification

Registration to the Engineer Association

Name and type of institution

Engineer Association of Messina

Dates

A.A. 2005/2006

Qualification

Honorary fellowship for SSD ING-INF/06 (Master Degree in Biomedical Engineering)

Name and type of institution

Facoltà di Ingegneria, Università degli studi di Pisa

Dates

A.A. 2002/2003

Qualification

Professional engineer

Name and type of institution

Università degli Studi di Messina

Didactic activities

Dates

A.A. 2007/2008 and 2008/2009

Occupation or position held
Main activities and responsibilities

Teaching assistant

Teaching assistant for the course "Metodologie Avanzate delle Scienze Psicologiche" (ING-INF/06)

Name and type of institution

Facoltà di Medicina e Chirurgia, Università degli studi di Pis

Type of business or sector

Master degree in Scinece and Techniques of Health Psychology

Dates

A.A. 2006/2007

Occupation or position held
Main activities and responsibilities

Teaching assistant

Teaching assistant for the course "Modelli di sistemi biologici, modulo di Modelli di sistemi fisiologici" (ING-INF/06)

Name and type of institution

Facoltà di Ingegneria, Università degli studi di Pisa

Type of business or sector

Master degree in Biomedical Engineering

Education and training

Dates

21/04/2006

Title of qualification awarded

Doctorate

Principal subjects/Occupational skills covered

Bioengineering

Name and type of organization providing education and training

Centro Interdipartimentale di Ricerca "E. Piaggio", Facoltà di Ingegneria, Università degli studi di Pisa

Dates

28/05/2002

Title of qualification awarded

Master's degree in Electronic Engineering

Principal subjects/Occupational skills covered

Electronics and informatics

Name and type of organization providing education and training

Corso di laurea in Ingegneria Elettronica, Facoltà di Ingegneria, Università degli studi di Roma "La Sapienza"

Level in national or international classification

109/110

Dates

21/07/1992

Title of qualification awarded
Principal subjects/Occupational skills covered
Name and type of organization providing education and training
Level in national or international classification

Bachelor's degree in Scientific High School
Mathematics and Physics
Liceo scientifico statale di Messina "G. Seguenza"
56/60

Personal skills and competences

Mother tongue(s)
Other language(s)
Self-assessment European level^()*

Inglese

Italian

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
B2 Independent user	C1 Proficient user	C1 Proficient user	B2 Independent user	B2 Independent user	

^(*) Common European Framework of Reference (CEF) level

Research activity

My research activity is focused on the development of neuro-computational models for the memorisation and categorisation of time-series of input stimuli in linguistic tasks. The activity involves the study of:

- probabilistic models of the linguistic usage;
- neuro-computational models of the mental lexicon;
- models of the linguistic processing for acquisition, generalisation and production;
- developmental disorders of verbal and non-verbal communication.

Research roles

2014 - today: member of the laboratory "Physiology of Communication (ComPhys)" - Institute for Computational Linguistics (ILC-CNR), Pisa (Italy);

2013 - today: responsible of the CNR research activity IC.P02.004.002: "Bio-computational models of the mental lexicon";

2009 - 2013: member of the laboratory "Dynamics of Language (DyLan)" - Institute for Computational Linguistics (ILC-CNR), Pisa (Italy).

Technical skills and competences

My skills include artificial intelligence for biomimetic robotics, computational neurosciences, artificial neural networks, sensing and actuation interfaces, biometrics, data analysis and signal processing. My competence is also related to software architectures and programming, with experience in different operative systems, programming languages and development environments.

Publications

Papers in International Journals

1. Marzi C., **Ferro M.**, and Keuleers E., "**Perception of typicality in the lexicon: word-likeness, lexical density and morphotactic constraints**", *Suvremena lingvistika*, vol. 40(78), pag. 171-191, ISSN 0586-0296, edited by Raffaelli I., and Pirrelli V., published by Hrvatsko filološko društvo, Zagreb (Croatia), **2014**.
2. Marzi C., **Ferro M.**, and Pirrelli V., "**Morphological structure through lexical parsability**", *Lingue e Linguaggio*, vol. XIII/2, pag. 263-290, doi: 10.1418/78410, ISSN 1720-9331, published by Il Mulino, Bologna (Italy), **2014**.

3. *Chersi F., Ferro M., Pezzulo G., and Pirrelli V.*, “**Topological self-organisation and prediction learning support both action and lexical chains in the brain**”, Topics in Cognitive Science (topiCS), published by Cognitive Science Society, doi: 10.1111/tops.12094, ISSN 1756-8757, pag. 476-491, Wheat Ridge (CO, USA), vol. 6(3), **2014**.
4. *Marzi C., and Ferro M.*, “**Adaptive strategies in lexical acquisition**”, Lingue e Linguaggio, vol. XII/2, pag. 307-328, doi: 10.1418/75045, ISSN 1720-9331, published by Il Mulino, Bologna (Italy), **2013**.
5. *Marzi C., Ferro M., and Pirrelli V.*, “**Word alignment and paradigm induction**”, Lingue e Linguaggio, vol. XI/2, pag. 251-274, doi: 10.1418/38789, ISSN 1720-9331, edited by Marzi C., and Pirrelli V., published by Il Mulino, Bologna (Italy), **2012**.
6. *Terranova G., Ferro M., Carpeggiani C., Recchia V., Braga L., Semelka R., and Picano E.*, “**Low Quality and Lack of Clarity of Current Informed Consent Forms in Cardiology - How to Improve Them**”, Journal of the American College of Cardiology (JACC): Cardiovascular Imaging, pag. 649-655, vol. 5(6), doi: 10.1016/j.jcmg.2012.03.007, ISSN 1936-878X, published by Elsevier inc., **2012**.
7. *Tartarisco G., Baldus G., Corda D., Raso R., Arnao A., Ferro M., Gaggioli A., and Pioggia G.*, “**Personal Health System architecture for stress monitoring and support to clinical decisions**”, Computer Communications, doi: 10.1016/j.comcom.2011.11.015, vol. 35(11), pag. 1296-1305, published by Elsevier, **2012**.
8. *Ferro M., Marzi C., and Pirrelli V.*, “**A self-organizing model of word storage and processing: implications for morphology learning**”, Lingue e Linguaggio, vol. X/2, pag. 209-226, doi: 10.1418/35840, ISSN 1720-9331, edited by Grandi N., Montermini F., and Tamburini F., published by Il Mulino, Bologna, **2011**.
9. *Valenza G., Pioggia G., Armato A., Ferro M., Scilingo E.P., and De Rossi D.*, “**A neuron-astrocyte transistor-like model for neuromorphic dressed neurons**”, Neural Networks, published by Elsevier, doi: 10.1016/j.neunet.2011.03.013, vol. 24(7), pag. 679-685, **2011**.
10. *Chersi F., Ferro M., Pezzulo G., and Pirrelli V.*, “**Time, Language and Action - A Unified Long-Term Memory Model for Sensory-Motor Chains and Word Schemata**”, ERCIM News, edited by Peter Kunz, published by ERCIM EEIG, ISSN 0926-4981, vol. 84, pag. 27-28, Sophia Antipolis Cedex (France), **2011**.
11. *Ferro M., Pezzulo G., and Pirrelli V.*, “**Morphology, Memory and the Mental Lexicon**”, Lingue e Linguaggio, vol. IX/2, pag. 199-238, doi: 10.1418/33327, ISSN 1720-9331, ISBN 13504, edited by Pirrelli V., published by Il Mulino, Bologna, **2010**.
12. *Ferro M., Ognibene D., Pezzulo G., and Pirrelli V.*, “**Reading as active sensing: a computational model of gaze planning in word recognition**”, Frontiers in Neurobotics, vol. 4(6), pag. 1-16, doi: 10.3389/fnbot.2010.00006, ISSN 1662-5218, **2010**.
13. *Ferro M., Pioggia G., Tognetti A., Carbonaro N., and De Rossi D.*, “**A Sensing Seat for Human Authentication**”, IEEE Transactions on Information Forensics and Security, ISSN 1556-6013, doi: 10.1109/TIFS.2009.2019156, vol. 4(3), pag. 451-459, **2009**, IF: 2.230.
14. *Pifferi M., Ragazzo V., Previti A., Pioggia G., Ferro M., Macchia P., Piacentini G.L., and Boner A.L.*, “**Exhaled Breath Temperature: a key feature to discriminate asthmatic children**”, Letter, Pediatric Allergy and Immunology, doi: 10.1111/j.1399-3038.2008.00839.x, vol. 20, pag. 202-203, **2009**, IF: 2.874.

15. *Di Francesco F., Loccioni C., Fioravanti M., Russo A., Pioggia G., **Ferro M.**, Roehrer I., Tabucchi S., and Onor M., "Implementation of Fowler's method for end-tidal air sampling", Journal of Breath Research, vol. 2(3), 034009, doi: 10.1088/1752-7155/2/3/037009, **2008**, IF: 1.828.*
16. *Pioggia G., **Ferro M.**, Di Francesco F., Ahluwalia A., and De Rossi D., "Assessment of Bioinspired Models for Pattern Recognition in Biomimetic Systems", Bioinspiration and Biomimetics, vol. 3(1), 016004, doi: 10.1088/1748-3182/3/1/016004, **2008**, IF: 1.845.*
17. *Pioggia G., Iglizzi R., Sica M.L., **Ferro M.**, Muratori F., Ahluwalia A., and De Rossi D., "Exploring Emotional and Imitational Android-based Interactions in Autistic Spectrum Disorders", Journal of CyberTherapy and Rehabilitation, vol. 1(1), pag. 49-62, ISSN 17849934, **2008**.*
18. *Pifferi M., Ragazzo V., Previti A., Pioggia G., **Ferro M.**, Macchia P., Piacentini G.L., and Boner A.L., "Exhaled Air Temperature in Asthmatic Children: a Mathematical Evaluation", Pediatric Allergy and Immunology, ISSN 0905-6157, doi: 10.1111/j.1399-3038.2008.00742.x, vol. 20(2), pag. 164-171, **2009**, IF: 2.874.*
19. *Pioggia G., Di Francesco F., **Ferro M.**, Sorrentino F., Salvo P., and Ahluwalia A., "Characterization of a Carbon Nanotube Polymer Composite Sensor for an Impedimetric Electronic Tongue", Microchimica Acta, vol. 163(1-2), pag. 57-62, doi: 10.1007/s00604-008-0952-y, ISSN 0026-3672, **2008**, IF: 1.910.*
20. *Pioggia G., Di Francesco F., Marchetti A., **Ferro M.**, Leardi R., and Ahluwalia A., "A composite sensor array impedentiometric electronic tongue - Part II. Discrimination of basic tastes", Biosensors and Bioelectronics, ISSN 0956-5663, vol. 22(11), pag. 2624-2628, doi: 10.1016/j.bios.2006.10.025, **2007**, IF: 5.143.*
21. *Pioggia G., Di Francesco F., Marchetti A., **Ferro M.**, and Ahluwalia A., "A composite sensor array impedentiometric electronic tongue - Part I. Characterization", Biosensors and Bioelectronics, ISSN 0956-5663, vol. 22(11), pag. 2618-2623, doi: 10.1016/j.bios.2006.10.031, **2007**, IF: 5.143.*
22. *Pioggia G., **Ferro M.**, and Di Francesco F., "Towards a Real-time Transduction and Classification of Chemoresistive Sensor Array Signals", IEEE Sensors Journal, ISSN 1530-437X, vol. 7(2), pag. 237-244, doi: 10.1109/JSEN.2006.886893, **2007**, IF: 1.610.*
23. *Pioggia G., **Ferro M.**, Di Francesco F., and De Rossi D., "A Processing Architecture for Associative Short-term Memory in Electronic Noses", Measurement Science and Technology, ISSN 0957-0233, vol. 17, pag. 3066-3072, doi: 10.1088/0957-0233/17/11/027, **2006**, IF: 1.493.*
24. *Pioggia G., Iglizzi R., **Ferro M.**, Ahluwalia A., Muratori F., and De Rossi D., "An Android for Enhancing Social Skills and Emotion Recognition in People with Autism", IEEE Transactions on Neural Systems and Rehabilitation Engineering, ISSN 1534-4320, vol. 13(4), pag. 507-515, doi: 10.1109/TNSRE.2005.856076, **2005**, IF: 2.934.*
25. *Pioggia G., Ahluwalia A., Carpi F., Marchetti A., **Ferro M.**, Rocchia W., and De Rossi D., "FACE: Facial Automaton for Conveying Emotions", Applied Bionics and Biomechanics, ISSN 1176-2322, vol. 1(2), pag. 91-100, doi: 10.1533/abib.2004.1.2.91, **2004**.*

Papers in Italian Journals

26. *Fornai A., Casalini S., **Ferro M.**, Pioggia G., Sica M.L., and De Rossi D.*, “**Robotic Action Learning - F.A.C.E.: the Responsibility of Learning from Action**”, Teoria, published by ETS, vol. XXVII/2007/2, Terza serie II/2, ISBN 978-884671985-0, pag. 73-82, Pisa (Italy), **2007**.

Books & Monographs

27. ***Ferro M.***, “**High Efficiency Real-Time Sensor and Actuator Control and Data Processing: A Framework Solution for Control Systems in Biomimetic Autonomous Robots**”, published by VDM Verlag Dr. Müller Aktiengesellschaft and Co. KG, ISBN 978-3-639-25356-6, Saarbrücken (Germany), **2010**.

Editorials

28. *Pirrelli V., Marzi C., and **Ferro M.***, “**Proceedings of the NetWordS Final Conference on Word Knowledge and Word Usage: Representations and Processes in the Mental Lexicon**”, in Proceedings of the NetWordS Final Conference on Word Knowledge and Word Usage: Representations and Processes in the Mental Lexicon, pag. 1-189, published by CEUR-WS online proceedings, ISSN 1613-0073, Aachen (Germany), **2015**.

Chapters & Papers in Books

29. *Pirrelli V., **Ferro M.**, and Marzi C.*, “**Computational complexity of abstractive morphology**”, in Understanding and measuring morphological complexity, edited by Baerman M., Brown D., and Corbett G.G., published by Oxford University Press, ISBN 978-0-19-872376-9, pag. 141-166, Oxford (United Kingdom), **2015**.
30. *Ioannidis D., Tzovaras D., Dalle Mura G., **Ferro M.**, Valenza G., Tognetti A., and Pioggia G.*, “**Gait and Anthropometric Profile Biometrics: A Step Forward**”, in Second Generation Biometrics: The Ethical, Legal and Social Context, in series of The International Library of Ethics, Law and Technology, published by Springer-Verlag, edited by Mordini E., and Tzovaras D., ISBN 978-94-007-3891-1, vol. 11, pag. 105-127, doi: 10.1007/978-94-007-3892-8_5, New York (USA), **2012**.
31. *Pirrelli V., **Ferro M.**, and Calderone B.*, “**Learning paradigms in time and space. Computational evidence from Romance languages**”, in Morphological Autonomy: Perspectives from Romance Inflectional Morphology, edited by Maiden M., Smith J.C., Goldbach M., and Hinzelin M.O., ISBN 978-0-19-958998-2, pag. 135-157 (references at pages 436-470), Oxford (United Kingdom), **2011**, doi: 10.1093/acprof:oso/9780199589982.001.0001.
32. ***Ferro M.**, and Pioggia G.*, “**A biologically-based framework for distributed sensory fusion and data processing**”, in Sensor and Data Fusion, edited by Nada Milisavljevic, published by I-Tech Education and Publishing, ISBN 978-3-902613-52-3, pag. 337-364, Vienna (Austria), **2009**, doi: 10.5772/6586.
33. *Fornai A., Armato A., Nardini E., Pioggia G., **Ferro M.**, Iglizzo R., Muratori F., and De Rossi D.*, “**Autismo ed Empatia: un androide ipodotato per l’interazione non verbale con il bambino autistico**”, in Anatomia del corpo, anatomia dell’anima, published by Quodlibet Studio, ISBN 978-88-7462-235-1, pag. 105-116, Roma (Italy), **2009**, doi: 10.1400/179459.
34. *Pioggia G., **Ferro M.**, De Rossi D., Lorussi F., Carpi F., Labbozzetta E., and Di Francesco F.*, “**A biomimetic sensing skin: characterization of piezoresistive fabric-based elastomeric sensors**”, in Sensors and Microsystems, 10th Italian Conference, edited by Mignani A.G., Falciai R., and Di Natale C., published by World Scientific Publishing Co., pag. 584-589, Singapore, **2008**.

35. Pioggia G., Sica M.L., **Ferro M.**, Casalini S., Iglizzio R., Muratori F., Ahluwalia A., and De Rossi D., "**Facial Automaton for Conveying Emotions as a Social Rehabilitation Tool for People with Autism**", in Rehabilitation Robotics, edited by Sashi S Kommu, published by I-Tech Education and Publishing, ISBN 978-3-902613-01-1, pag. 431-452, Vienna (Austria), **2007**, doi: 10.5772/5174.
36. Casalini S., Pioggia G., **Ferro M.**, Caudai C., and De Rossi D., "**FACE e la sua mente**", in Bioingegneria della Mente, in series of Ingegneria Biomedica, edited by Biondi E., and Cobelli C., published by Patron, ISBN 88-555-2883-1, Bologna (Italy), **2006**.
37. Pioggia G., Marchetti A., **Ferro M.**, De Rossi D., Di Francesco F., and Gerovasi L., "**A Human-like Chewing Measurement System for the Assessment of the Perception of Food Consistence**", in Sensors and Microsystems, 9th Italian Conference, edited by Di Natale C., and D'Amico A., published by World Scientific Publishing Co., ISBN 981-256-386-5, pag. 484-488, Singapore, **2005**.

Proceedings of International Conferences, referred papers in extenso

38. **Ferro M.**, Marzi C., and Pirrelli V., "**Lexical parsability and morphological structure**", in proceedings of 9th Mediterranean Morphology Meeting (MMM9), pag. 22-37, edited by Audring J., Koutsoukos N., Masini F., and Raffaelli I., ISSN 1826-7491, Dubrovnik (Croatia), **2015**.
39. Marzi C., **Ferro M.**, and Pirrelli V., "**Lexical emergentism and the "frequency-by-regularity" interaction**", in proceedings of NetWordS Final Conference on Word Knowledge and Word Usage: Representations and Processes in the Mental Lexicon (NetWordS 2015), pag. 37-41, edited by Pirrelli V., Marzi C., and Ferro M., ISSN 1613-0073, published by CEUR-WS online proceedings, Aachen (Germany), **2015**.
40. Marzi C., Nahli O., and **Ferro M.**, "**Word Processing for Arabic Language: A reappraisal of morphology induction through adaptive memory self-organisation strategies**", in proceedings of 3rd International IEEE Colloquium on Information Science and Technology (CiSt'14), International Workshop on Arabic Natural Language Processing (ANLP), pag. 241-247, vol. CFP1467R-ART, edited by El Mohajir M., Al Achhab M., M. Chahho, A. Mouni, El Mohajir B., V. Pirrell, A. Zarghil, and M. EIFa, doi: 10.1109/CIST.2014.7016626, Tetuan (Morocco), **2014**, published by IEEE, ISBN 978-1-4799-5978-5.
41. Pirrelli V., Marzi C., and **Ferro M.**, "**Two-dimensional wordlikeness effects in lexical organisation**", in proceedings of 1st Italian Computational Linguistics Conference (CLiC-it'14), pag. 301-305, ISBN 978-8-86741-472-7, doi: 10.12871/CLICIT2014158, Pisa (Italy), **2014**, vol. 1.
42. Gaggioli A., Cipresso P., Serino S., Pioggia G., Tartarisco G., Baldus G., Corda D., **Ferro M.**, Carbonaro N., Tognetti A., De Rossi D., Giakoumis D., Tzouvaras D., Riera A., and Riva G., "**A decision support system for real-time stress detection during virtual reality exposure**", in proceedings of Studies in Health Technology and Informatics: Medicine Meets Virtual Reality (MMVR21), vol. 196, pag. 114-120, edited by Westwood J.D., published by IOS Press, doi: 10.3233/978-1-61499-375-9-114, Newport Beach (CA, USA), **2014**.
43. Marzi C., **Ferro M.**, and Pirrelli V., "**Prediction and Generalization in Word Processing and Storage**", in proceedings of 8th Mediterranean Morphology Meeting (MMM8), pag. 114-131, edited by Ralli A., Booij G., Scalise S., and Karasimos A., ISSN 1826-7491, Cagliari (Italia), **2012**.

44. *Gaggioli A., Pioggia G., Tartarisco G., Baldus G., **Ferro M.**, Cipresso P., Serino S., Popleteev A., Gabrielli S., Maimone R., and Riva G., “A System for Automatic Detection of Momentary Stress in Naturalistic Settings”, in proceedings of Studies in Health Technology and Informatics - Annual Review of Cybertherapy and Telemedicine 2012 - Advanced Technologies in the Behavioral, Social and Neurosciences, vol. 181, Brussels (Belgium), doi: 10.3233/978-1-61499-121-2-182, pag. 182-186, ISBN 978-1-61499-120-5, **2012**, edited by Wiederhold B., and Riva G..*
45. *Marzi C., **Ferro M.**, Caudai C., and Pirrelli V., “Evaluating Hebbian Self-Organizing Memories for Lexical Representation and Access”, in proceedings of Eighth international conference on Language Resources and Evaluation (LREC 2012), pag. 886-893, edited by Calzolari N., Choukri K., Declerck T., DoAyan U., Maegaard B., Mariani J., Odijk J., and Piperidis S., published by European Language Resources Association (ELRA), ISBN 978-2-9517408-7-7, Istanbul (Turkey), **2012**.*
46. ***Ferro M.**, Marzi C., and Pirrelli V., “T2HSOM: Understanding the Lexicon by Simulating Memory Processes for Serial Order”, in proceedings of First International Workshop on Lexical Resources (WoLeR 2011), 23rd European Summer School in Logic, Language and Information (ESSLLI 2011), pag. 32-41, Ljubijana (Slovenia), **2011**.*
47. *Pioggia G., Carbonaro N., Anania G., Tognetti A., Tartarisco G., **Ferro M.**, De Rossi D., Gaggioli A., and Riva G., “Interreality: The use of advanced technologies in the assessment and treatment of psychological stress”, in proceedings of 2010 Tenth International Conference on Intelligent Systems Design and Applications (ISDA'10), published by IEEE Computer Society, ISBN 978-142448135-4, doi: 10.1109/ISDA.2010.5687047, pag. 1047-1051, Washington DC (USA), **2010**.*
48. ***Ferro M.**, Pioggia G., Tognetti A., Dalle Mura G., and De Rossi D., “Event Related Biometrics: Towards an Unobtrusive Sensing Seat System for Continuous Human Authentication”, in proceedings of 2009 Ninth International Conference on Intelligent Systems Design and Applications (ISDA'09), published by IEEE Computer Society, ISBN 978-0-7695-3872-3, doi: 10.1109/ISDA.2009.256, pag. 679-682, Washington DC (USA), **2009**.*
49. *Valenza G., Lanatà A., **Ferro M.**, and Scilingo E.P., “Real-Time Discrimination of Multiple Cardiac Arrhythmias for Wearable Systems Based on Neural Networks”, in proceedings of Computers in Cardiology (CinC'08), ISSN 0276-6574, pag. 1053-1056, Bologna (Italy), **2008**.*
50. *Di Francesco F., Loccioni C., Pioggia G., **Ferro M.**, Tabucchi S., and Onor M., “Implementation of Fowler’s method for alveolar air sampling”, in proceedings of Breath Analysis Summit 2007: Clinical Applications of Breath Testing (IABR 2007), Cleveland (USA), **2007**.*
51. *Pioggia G., **Ferro M.**, Zupone G., Chirulli L., and De Rossi D., “Development of a Sensing Seat for Human Authentication”, in proceedings of 3rd IET International Conference on Intelligent Environments (IE07), ISSN 0537-9989, ISBN 978-0-86341-853-2, pag. 481-485, Ulm (Germany), **2007**.*
52. *Di Francesco F., Loccioni C., Pioggia G., **Ferro M.**, and Tabucchi S., “Alveolar Air Sampling for Breath Analysis”, in proceedings of Micro-nano-bio Systems and Medical Information Networks Enabling Quality and Efficient Healthcare (pHealth), Chalkidiki (Greece), **2007**.*
53. *Sgambelluri N., Valenza G., **Ferro M.**, Pioggia G., Scilingo E.P., De Rossi D., and Bicchi A., “An Artificial Neural Network Approach for Haptic Discrimination in Minimally Invasive Surgery”, in proceedings of 16th IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN), Jeju Island (Korea), **2007**.*

54. Pioggia G., Sica M.L., **Ferro M.**, Iglizzo R., Muratori F., Ahluwalia A., and De Rossi D., "**Human-Robot Interaction in Autism: FACE, an Android-based Social Therapy**", in proceedings of 16th IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN), Jeju Island (Korea), **2007**.
55. Casalini S., Dalle Mura G., Sica M.L., Fornai A., **Ferro M.**, Pioggia G., Iglizzo R., Ahluwalia A., Muratori F., and De Rossi D., "**Roboethics: Human-Robot Interaction in Autism**", in proceedings of ICRA'07, 2007 IEEE International Conference on Robotics and Automation, Workshop on Roboethics, Rome (Italy), **2007**.
56. Di Francesco F., Tabucchi S., Loccioni C., **Ferro M.**, and Pioggia G., "**Development of a CO2 Triggered Alveolar Air Sampler**", in proceedings of IEEE International Symposium on Industrial Electronics (ISIE'07), Vigo (Spain), **2007**.
57. Pioggia G., **Ferro M.**, Sica M.L., Dalle Mura G., Casalini S., Iglizzo R., Ahluwalia A., Muratori F., and De Rossi D., "**Imitation and Learning of the Emotional Behaviour: Towards an Android-based Treatment for People with Autism**", in proceedings of Sixth International Conference on Epigenetic Robotics: Modeling Cognitive Development in Robotic Systems (Epirob06), Paris (France), **2006**.
58. Carpi F., Pioggia G., **Ferro M.**, and De Rossi D., "**Robotic eyes driven by dielectric elastomer actuators**", in proceedings of 3rd World Congress on Biomimetics, Artificial Muscles and Nano-Bio, Lausanne (Switzerland), **2006**.
59. Pioggia G., **Ferro M.**, Sica M.L., Carpi F., Ahluwalia A., and De Rossi D., "**FACET: an android-based therapeutical approach for treatment of autistic disorders**", in proceedings of 3rd World Congress on Biomimetics, Artificial Muscles and Nano-Bio, Lausanne (Switzerland), **2006**.
60. Pioggia G., **Ferro M.**, Di Francesco F., Dalle Mura G., and De Rossi D., "**An Architecture for High Efficiency Realtime Sensor and Actuator Data Processing**", in proceedings of EUROSENSORS XIX, Barcelona (Spain), **2005**.
61. Pioggia G., **Ferro M.**, Caudai C., Casalini S., Ahluwalia A., and De Rossi D., "**Sensory Fusion and Emerging Behaviours in an Anthropomorphic Robot as a Man-machine Interface**", in proceedings of International SenseMaker Workshop on Life Like Perception Systems, Ireland, **2005**.
62. Pioggia G., **Ferro M.**, Kozlowski J., Marchetti A., Di Francesco F., Ahluwalia A., and De Rossi D., "**Automatic facial expression recognition by means of a neural approach**", in proceedings of 2nd International Symposium on Measurement, Analysis and Modeling of Human Functions ISHF2004, pag. 121-124, Genova (Italy), **2004**.

Proceedings of International Conferences, referred short papers

63. Ruta L., Siracusano R., Tortorella G., Boncoddò M., Colombi C., Crifaci G., Billeci L., Tartarisco G., **Ferro M.**, Narzisi A., Muratori F., and Pioggia G., "**The PRIMA-PIETRA Project: A Web-Based Platform for Early Autism Risk Assessment**", in proceedings of International Meeting for Autism Research (IMFAR 2013) - International Society for Autism Research (INSAR), San Sebastian (Spain), **2013**.
64. Pioggia G., Billeci L., Narzisi A., Farruggio V., Arnao A., Tartarisco G., **Ferro M.**, Siracusano R., Germanò E., Deodato M., Tortorella G., and Muratori F., "**PRIMA PIETRA: Research, Integration, Enhancement, Assistance and Education Program for Autism Services and Rehabilitation Technologies**", in proceedings of International Meeting for Autism Research (IMFAR 2012) - International Society for Autism Research (INSAR), Toronto (Canada), **2012**.

65. Terranova G., **Ferro M.**, Carpeggiani C., Recchia V., Dodaro A., Giofrè D., Semelka R., and Picano E., “**Unreadability of current informed consent forms in cardiology - and how to improve it**”, in proceedings of European Society of Cardiology (ESC 2011) - European Heart Journal (abstract supplement), vol. 32, pag. 69-70, Paris (France), **2011**.
66. Valenza G., Lanatà A., **Ferro M.**, and Scilingo E.P., “**Real-Time Discrimination of Multiple Cardiac Arrhythmias for Wearable Systems Based on Neural Networks (poster)**”, in proceedings of Computers in Cardiology (CinC'08), Bologna (Italy), **2008**.
67. Neri G., Micali G., Ipsale S., Donato N., Di Francesco F., Loccioni C., Pioggia G., **Ferro M.**, Tabucchi S., and Onor M., “**Developments of solid state analyzer for breath analysis**”, in proceedings of Atti della 13a Conferenza Nazionale su Sensori e Microsistemi, Roma (Italy), **2008**.
68. Casalini S., **Ferro M.**, Fornai A., Pioggia G., Sica M.L., and De Rossi D., “**An android for non verbal interaction with autistic patients**”, in proceedings of Human-Machine Interaction: Ethical and Social Issues, Workshop, Pisa (Italy), **2007**.
69. Casalini S., Dalle Mura G., Sica M.L., Fornai A., **Ferro M.**, Pioggia G., Iglizzi R., Ahluwalia A., Muratori F., and De Rossi D., “**Human-robot interaction in autism**”, in proceedings of Human-robot interaction in autism, Ethics of Human Interaction with Robotic, Bionic, and AI Systems Concepts and Policies, Workshop supported by the ETHICBOTS European Project International Workshop, Naples (Italy), **2006**.
70. Pioggia G., **Ferro M.**, and Di Francesco F., “**An architecture for high efficiency real-time sensor and actuator data processing**”, in proceedings of Book of Abstracts EuroSensors XIX - The 19th European Conference on Solid State Transducers, pag. 11-14, Barcelona (Spain), **2005**.
71. Pioggia G., **Ferro M.**, Caudai C., Casalini S., Ahluwalia A., and De Rossi D., “**Sensory fusion and emerging behaviours in an anthropomorphic robot as a man-machine interface**”, in proceedings of Book of Abstracts of the International SenseMaker Workshop on Life Like Perception Systems, Derry (North Ireland), **2005**.
72. Pioggia G., **Ferro M.**, De Rossi D., Lorussi F., Carpi F., Labbozzetta E., and Di Francesco F., “**A biomimetic sensing skin: characterization of piezoresistive fabric-based elastomeric sensors**”, in proceedings of Atti della 10a Conferenza Nazionale su Sensori e Microsistemi, pag. 131, Firenze (Italy), **2005**.
73. Pioggia G., Marchetti A., **Ferro M.**, De Rossi D., Di Francesco F., and Gerovasi L., “**A human-like chewing measurement system for the assessment of the perception of food consistence and crispiness**”, in proceedings of Atti della 9a Conferenza Nazionale su Sensori e Microsistemi, pag. 168, Ferrara (Italy), **2004**.

Electronic Papers & Newsletters

74. Mazzoldi A., Carpi F., Pioggia G., **Ferro M.**, and De Rossi D., “**EAP activity in Italy**”, Newsletter, in World Wide ElectroActive Polymers EAP (Artificial Muscles), edited by Bar-Cohen Y., vol. 6(2), pag. 7-10, **2004**.

Proceedings of Research Institutions

75. Pirrelli V., **Ferro M.**, and Calderone B., “**Cosa impara un bambino quando impara una lingua**”, in CNR.IT Highlights 2010-2011, pag. 174, published by CNR - Ufficio PSC, Rome (Italy), **2012**.

Project deliverables & Technical reports

76. *Tartarisco G., Baldus G., Corda D., **Ferro M.**, and Pioggia G.*, “**Decision Support Processing Architecture**”, Deliverable 5.2, European Project INTERSTRESS (FP7 n. 247685), WORKPACKAGE: WP5, Decision Support System, TASK: T5.2, Fusion of Processes and Decision, **2012**.
77. *Visintainer F., Muro M., Carlino A., Kalogirou K., Contreras J., Pioggia G., Tartarisco G., and **Ferro M.***, “**Two vehicle demonstrators for elderly drivers support**”, Deliverable 3.4.1, European Project OASIS (FP7 n. 215754), WORKPACKAGE: WP3.4, Personal mobility, ACTIVITY: A3.4.2, Driver telematic support services; A3.4.3, Driver comfort support services, **2010**.
78. ***Ferro M.**, and Dalle Mura G.*, “**Activity-related sensing seat module**”, Deliverable 4.4, European Project ACTIBIO (FP7 n. 215372), WORKPACKAGE: WP4, Unobtrusive behavioural and physiological biometrics for continuous authentication/identification, ACTIVITY: A4.4, Unobtrusive seat sensor based biometrics for car and office, **2009**.
79. ***Ferro M.**, and Pioggia G.*, “**Sensing seat for human authentication module**”, Deliverable 3.5, European Project HUMABIO (FP6 n. 026990), WORKPACKAGE: WP3, Behavioural and other biometrics profile creation, TASK: T3.5, Sensing seat for human authentication, **2007**.

Pisa, November 6, 2015

Marcello Ferro