

Enzo Pasquale Scilingo's curriculum vitae

Academic and work history

- **2021 – to date** Delegate to Research of the Director of the Department of Information Engineering
- **2020 - to date** Coordinator of the PhD program Smart Industry jointly organized by University of Pisa, University of Florence and University of Siena, since 17th December
- **2018 – to date** Full professor, University of Pisa, SSD ING/ING 06 since 1st May
- **2018 – to date** Coordinator of the laboratory Augmented and virtual reality at the Department of Information Engineering, University of Pisa
- **2015-2017** Vice Director Centro di Ricerca “E. Piaggio” from November 2015 to January 2017.
- **2018 – to date** Coordinator of the laboratory Biolab at the at the Department of Information Engineering, University of Pisa
- **2013- 2018** Associate Professor, Università di Pisa, SSD ING/ING 06 from 1st February to 30rd April.
- **2006-2013** Assistant Professor, Università di Pisa, from 1st January, 2006 to 31st January, 2013.
- **2004- 2005** Post-doc fellowship at the Centro Interdipartimentale di Ricerca “E. Piaggio”, Università di Pisa.
- **2001-2003** Post-doc fellowship at the University of Pisa, Department of Engineering of “Information: Electronics, Information, Telecommunications”.
- **1999-2001** Post-doc fellow at the National Research Council.
- **1999** PhD in Bioengineering at the Politecnico of Milano.
- **1996-1998** Scientific leader for the project “Sensorized forceps for laparoscopy” at the National Research Council in collaboration with the Centro Interdipartimentale di Ricerca “E. Piaggio”, University of Pisa.
- **1995** Laurea degree in Electronic Engineering at the University of Pisa, Italy. Mark 110/110.

Miscellanea

- Co-organizer of the Special Session on "Measurements and sensors for safety and wellness of workers" at the IEEE International Workshop on Metrology for Industry 4.0 & IoT, June 3-5 2020, Rome, Italy.
- Member of the panel review of Academy of Finland's Biomedical engineering, Helsinki, 2019.
- Chairman of the workshop “Advances and challenges in the field of emotion recognition and emotion regulation for designing technology-based interventions for affective disorders” at 41st EMBC International Conference held in Berlin on July 23rd, 2019.
- Reviewer of the EU project ERC-2018-ADG
- IEEE Senior membership since 19 November 2016 to date
- IEEE Engineering in Medicine and Biology Society Membership since 1 March 2011 to date
- IEEE Signal Processing Society Membership since 1 January 2013 to date
- Invited reviewer to IMI-Horizon 2020 (Innovative Medicines Initiative) IMI 2 Call 3 RADAR (Remote Assessment of Diseases and Relapse)
- Invited reviewer to Horizon 2020 COST Action - Open Call OC-2015-2
- Co-founder of Touch-Lab, multidisciplinary laboratory on multimodal interfaces
- Reviewer in the frame of Biomedical Engineering Panel per “The Portuguese Foundation for Science and Technology 2011”.
- Programme chair del Symposium J - Biomedical Applications of "Smart" Technologies of CIMTEC (International conferences on modern materials & technologies), Montecatini Terme, Italy, June 10-14, 2012.

Invited and keynote speaker

- Invited lecture to e_Health and Innovation to overcome barriers in neuromuscular diseases - eNMD 2020, 30-31 October 2020 - DIGITAL EDITION. Title: "Tele-Health: repurposing challenges to improve the neuromuscular disease care: what we learnt from lock-down".
- Invited speaker to International workshop "Olfaction in the context of human interaction" within ECRO 2020 (European Chemoreception Research Organization) held on 17th September 2020 (online meeting).

- Speaker to Peer-to-Peer Experience Sharing FET Briefing Workshop held on May 28, 2020 (online meeting).
- Invited speaker to Special session on Big data to improve outcome, process, and services in health. Title of the talk: “Knowledge discovery about mental disorders from multiparametric data”, 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Jeju, July 14th, 2017, Korea.
- Invited speaker to Summer school “Muscle school: exercise muscle in health and disease” at the University of Pisa, July 11. Title of the talk: “Skeletal muscle fatigue”.
- Invited speaker to Summer school CARDIOLUNG 2017: "Updates in Cardiovascular and Pulmonary Pathophysiology" at the University of Pisa, June 22, 2017. Title of the talk: “Cardio-Respiratory Dynamics during Multimodal Emotional Elicitation”.
- Invited speaker to Human Centered and Rehab Robotics Workshop at IIT, Genova, Italy. Title of the talk: "Personalized rehabilitation: from hospital to home", 24 March 2015.
- Invited speaker to Mindcare 2011, International Workshop on Pervasive Computing Paradigms for Mental Health, 23 May 2011, Dublin, Ireland.
- Invited speaker to 3th International Symposium on Applied Science in Biomedical and Communication Technologies, November 7-10, 2010, Rome, Italy.
- Keynote speaker to 5th International Workshop on Ubiquitous Health and Wellness, part of UbiComp 2010, September 26th 2010, Copenhagen, Denmark.
- Invited speaker al 5th annual Smart fabrics 2009, Roma 10-12 Marzo 2009. Titolo della presentazione: “Radiant sensing technology to be integrated into textile substrates”.
- Invited speaker to XXVII Scuola Annuale di Bioingegneria “Sistemi indossabili intelligenti per la salute e la protezione dell’uomo”, Bressanone, 15 - 19 settembre 2008.
- Invited speaker to 5th edition of International Workshop on Wearable, Micro and Nano Technologies for the Personalised Health, Valencia May 21 -23 2008. Titolo della presentazione: “Wearable monitoring of cardiopulmonary activity through radiant sensing”.

Membership in committees of international conferences

- Program Committee of the 9th International Conference on e-Health (part of the IADIS Multi Conference on Computer Science and Information Systems), Lisbon, Portugal, 20 – 22 July 2017.
- Program Committee member of the 8th edition of the International Conference on e-Health (part of the IADIS Multi Conference on Computer Science and Information Systems), Funchal, Madeira, Portugal, 01-03 July 2016.
- Program Committee member of the International Conference on Signal Processing and Communication Systems, Lisbon, Portugal 25-27 July 2016
- Program Committee member of the 7th International Conference on e-Health 2015 (EH 2015), Las Palmas de Gran Canaria, Spain, 21 - 23 July 2015
- Program Committee member of the International Symposium on Ambient Intelligence, Salamanca, Salamanca, 3th-5th June, 2015
- Program Committee member of the 5th International Conference on Pervasive and Embedded Computing and Communication Systems, 11-13 February 2015, ESEO, Angers, Loire Valley, France.
- Program Committee member of the 8th International Conference on Ubiquitous Computing and Ambient Intelligence, 6th International Work-conference on Ambient Assisted Living, Workshop on User- and Ambient-Adaptive Gerontechnologies and Geron-services, 2-5 December 2014, Belfast, UK.
- Program Committee member of the 4th edition of the International Conference on e-Health (part of the IADIS Multi Conference on Computer Science and Information Systems), Lisbon, Portugal, 17-19 July, 2012.
- Program Committee member of Eurohaptics 2012, Tampere, Finland, 12-15 June.
- Committee member of Primo Congresso Nazionale di Bioingegneria Pisa, 3-5 Luglio 2008
- Program Committee member of IEEE International Workshop on Haptic, Audio and Visual Environments and their Applications, Ottawa, ON, Canada 1-2 October 2005.
- Program Committee member of World Haptics Conference 2005, Pisa, 18-20 March
- Program Committee member of Eurohaptics 2004, Munich, 5-7 June

- Local Organizing Committee member of the International Workshop on New generation of wearable systems for e-Health: towards a revolution of citizen' health and life style management?, Lucca, December 12-14, 2003
- Program Committee member of Eurohaptics 2003, Dublin, 6-9 July
- Local Organizing Committee member of the International Workshop on Electroactive Polymers and Biosystems, Lucca, Italy, August, 2001
- Journal of Knowledge Based and Intelligent Engineering Journal - the KES Journal. Review board member

To date, my “**funding ID**” includes:

European and national projects

As coordinator:

- 2019-2023 H2020-FETPROACT-2018-824153 POTION - Promoting social interaction through emotional body odours.
- 2016-2020 H2020-PHC-2015-689691 NEVERMIND - NEurobehavioural predictiVE and peRsonalised Modelling of depressIve symptoms duriNg primary somatic Diseases with ICT-enabled self-management procedures.
- 2010-2014 EC-FP7-ICT-247777 “PSYCHE-Personalised monitoring SYstems for Care in mental Health”, Budget 0.51 MEur. The aim of the project is to develop a personal, cost-effective, multi-parametric monitoring system based on textile platforms and portable sensing devices for the long term and short-term acquisition of data from selected class of patients affected by bipolar disorders. Concluded

As WP Leader/Principal Investigator/Key Researcher:

- 2017-2020 H2020-MSCA-ITN n. 722022 AffecTech (Personal Technologies for Affective Health). This project, in the frame of Marie Curie – Innovative Training Networks, advances the state-of-the-art of personal health technologies for affective disorders, estimated to be the highest ranking cause of disease by 2020. AffecTech integrates the latest Human-Computer Interaction and Biomedical Engineering findings in designing and developing personal health systems for mental health, with the most influential outcomes and models of emotion regulation from Clinical Psychology.
- 2013-2017 FP7 GA n. 601165 “WEARHAP – WEARable HAPTics for humans and robots”, Budget 1MEur. The project aims at laying the scientific and technological foundations for wearable haptics, a novel concept for the systematic exploration of haptics in advanced cognitive systems and robotics that will redefine the way humans will cooperate with robots. On-going
- 2010-2014 EC-FP7-ICT-248587 “THE Hand Embodied”, Budget 1.6 MEur over 4 years. The scientific goals of the project concern the reciprocal linkages between the physical hand and its high-level control functions, as well as the way that the embodiment enables and determines its behaviours and cognitive functions. Concluded
- 2015-2016 MIT-UNUPI Project, Collaboration between University of Pisa and Massachusetts Institute of Technology (MIT) on “Real-time Monitoring of Cardiovascular Functions Using Textile-Based Wearable Systems and Probabilistic Point-Process Modeling”.
- 2006-2010 EC-FP6-IST-027141 “IMMERSENCE–Immersive Multi-Modal Interactive Presence”. Budget: 0.47 MEur over 4 years. The main objective of this project was to enable highly realistic multi-modal interactive immersion into virtual and augmented reality environments. Its focus will be on visual, haptic and auditory sensory components, while addressing an even broader range of human senses. Concluded
- 2010-2014 FP7-ICT-2009-5-258749 The Collective Experience of Empathic Data System (CEEDS) The scientific goals of the projects concern the development of new and integrated technologies for interacting with virtual databases. Concluded
- 2007 National research contract with Enel S.p.A. on the “Development and optimization of a diagnostic system for multi-parametric monitoring of biomedical sigla to be integrated in a Wellness Laboratory”, Budget 74 KEur in 1 year. The aim of the project was to realize a multi-parametric platform to acquire vital signs and environmental parameters to monitor the wellness of elderly people at home. Concluded
- 2004-2008 EC-FP6-IST-507816 “MYHEART-MyHeart-Fighting cardio-vascular diseases by preventive lifestyle & early diagnosis”, Budget 1.18 MEur over 4 years. The mission of this project was to empower citizens in fighting cardio-vascular diseases through preventive lifestyle and early diagnosis by using wearable e-health systems. Concluded

- 2002-2005 EC-FP6-IST-38040 “TOUCH-HAPSYS-Towards a Touching Presence: High-Definition Haptic Systems,” Budget 0.63 MEur over 3 years. This project established a new generation of high-fidelity haptic display technologies. The newly developed systems not only covered haptic interaction but also attempted to complement haptic information by visual and auditory input. Concluded
- 2002-2005 EC-FP5-IST-37778 “WEALTHY-Wearable Health Care System”, Budget 0.32 MEur over 3 years. The aim of this project was to provide continuous remote monitoring of user vital signs by using innovative technology based on smart materials in fibre and yarn. Concluded

Guest and Associate editor of journals

- Editor in chief for section of "Bioelectronics" in *Electronics* (ISSN 2079-9292; CODEN: ELECGJ, IF 2018: 2,412)
- Member of the Editorial Board/Academic Editor of *IEEE Journal of Biomedical and Health Informatics* (ISSN: 2168-2194, IF 2019: 5,223)
- Member of the Editorial Board/Academic Editor of *IEEE Transactions on Affective Computing* (ISSN:1949-3045, IF 2019: 7,512)
- Member of the Editorial Board/Academic Editor of *Plos One* (ISSN: 1932-6203, IF 2019: 2,740)
- Member of the Editorial Board/Academic Editor *Scientific Reports - Nature* (ISSN: 2045-2322, IF 2019: 3,998)
- Member of the Editorial Board/Academic Editor of *Frontiers in Bioengineering and Biotechnology* (Electronic ISSN 2296-4185, IF 2018: 4,21) and *Frontiers in Robotics and AI* (Electronic ISSN: 2296-9144, IF 2019: 3,310) section *Bionics and Biomimetics*.
- Member of the Editorial Board/Academic Editor of *Frontiers in Neuroscience* (Electronic ISSN: 1662-453X, IF 2019: 3,707) section *Neural technology*.
- Member of the Editorial Board/Academic Editor of *Complexity*, (Online ISSN: 1099-0526, IF 2019: 2,462)
- Member of the Editorial Board/Academic Editor of *Electronics and Telecommunications Research Institute* (ETRI) Journal (p-ISSN 1225-6463, e-ISSN 2233-7326, IF 2018: 1,24)

Technology transfer

- R. Paradiso, A. Bianchi, S. Cerutti, O. Schleusing, F. Renevey, E. P. Scilingo, and A. Lanatà, “Monitoring method and system for assessment of prediction of mood trends,” European Patent, no. PCT/EP2011/064742, 2011.
- UK Patent application number GB1620007.3 entitled "Care Management System"
- Technology transfer relative to research activity on affective computing, signal processing, and artificial intelligence through the creation of the start-up FEEL-ING.

Teaching activity

- Biomedical electronics since 2005
- Laboratory of Bioengineering from 2005 to 2011
- Methods of statistical inference from 2006 to 2011
- Biomedical electronics at the University of Cagliari from 2006 to 2007
- Biomedical instrumentation from 2013 to date
- Biomedical electronics II from 2011 to date
- Affective computing from 2015 to date

Peer reviews

IEEE Transaction on Biomedical Engineering, Journal of Biomedical and Health Informatics, IEEE Sensors Journal, IEEE/ASME Transactions on Mechatronics, Scientific Reports, Plos one, Journal of Intelligent Material Systems and Structures, IEEE Transactions on Information Technology in BioMedicine, ETRI Journal, Smart Materials and Structures, Experimental Brain Research, IEEE Transaction on Haptics, Pervasive and Mobile Computing, Cognitive Computation, Computers in Biology and Medicine, IEEE Transactions on Systems, Man and Cybernetics: Systems.

Publications

	Total Documents	Total Citations	H-index
Scopus	255	5366	38
Scholar	379	8028	46

International journals

- Gioia, F., Greco, A., Callara, A.L., Scilingo, E.P., "Towards a Contactless Stress Classification Using Thermal Imaging", (2022) *Sensors*, 22 (3), art. no. 976.
- Nardelli, M., Catrambone, V., Grandi, G., Banfi, T., Bruno, R.M., Scilingo, E.P., Faraguna, U., Valenza, G., "Activation of brain-heart axis during REM sleep: A trigger for dreaming", (2021) *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, 321 (6), pp. R951-R959.
- Cominelli, L., Feri, F., Garofalo, R., Giannetti, C., Meléndez-Jiménez, M.A., Greco, A., Nardelli, M., Scilingo, E.P., Kirchkamp, O., "Promises and trust in human-robot interaction", (2021) *Scientific Reports*, 11 (1), art. no. 9687.
- Lanata, A., Greco, A., Ciardelli, M., Uvelli, A., Fratini, E., Manzoni, D., Scilingo, E.P., Santarcangelo, E.L., Sebastiani, L., "Linear and non linear measures of pupil size as a function of hypnotizability", (2021) *Scientific Reports*, 11 (1), art. no. 5196.
- Callara, A.L., Greco, A., Frasnelli, J., Rho, G., Vanello, N., Scilingo, E.P., "Cortical network and connectivity underlying hedonic olfactory perception", (2021) *Journal of Neural Engineering*, 18 (5), art. no. 056050.
- Callara, A.L., Sebastiani, L., Vanello, N., Scilingo, E.P., Greco, A., "Parasympathetic-sympathetic causal interactions assessed by time-varying multivariate autoregressive modeling of electrodermal activity and heart-rate-variability", (2021) *IEEE Transactions on Biomedical Engineering*, 68 (10), pp. 3019-3028.
- Bartoletti, R., Greco, A., Di Vico, T., Durante, J., Ficarra, V., Scilingo, E.P., Valenza, G., "Bioelectric Impedance Analysis Test Improves the Detection of Prostate Cancer in Biopsy Candidates: A Multifeature Decision Support System", (2021) *Frontiers in Oncology*, 11, art. no. 555277.
- Rho, G., Callara, A.L., Petri, G., Nardelli, M., Scilingo, E.P., Greco, A., De Pascalis, V., "Linear and nonlinear quantitative EEG analysis during neutral hypnosis following an opened/closed eye paradigm", (2021) *Symmetry*, 13 (8), art. no. 1423.
- Marzi, C., Greco, A., Scilingo, E.P., Vanello, N., "Towards a model of arousal change after affective word pronunciation based on electrodermal activity and speech analysis", (2021) *Biomedical Signal Processing and Control*, 67, art. no. 102517.
- Ghiasi, S., Greco, A., Faes, L., Javorka, M., Barbieri, R., Scilingo, E.P., Valenza, G., "Quantifying multidimensional control mechanisms of cardiovascular dynamics during multiple concurrent stressors", (2021) *Medical and Biological Engineering and Computing*, 59 (4), pp. 775-785.
- Greco, A., Valenza, G., Scilingo, E.P., "Brain Dynamics during Arousal-Dependent Pleasant/Unpleasant Visual Elicitation: An Electroencephalographic Study on the Circumplex Model of Affect", (2021) *IEEE Transactions on Affective Computing*, 12 (2), art. no. 8520789, pp. 417-428.
- Marin Vargas, A., Cominelli, L., Dell'Orletta, F., Scilingo, E.P., "Verbal Communication in Robotics: A Study on Salient Terms, Research Fields and Trends in the Last Decades Based on a Computational Linguistic Analysis", (2021) *Frontiers in Computer Science*, 2, art. no. 591164.
- Ghiasi, S., Greco, A., Barbieri, R., Scilingo, E.P., Valenza, G., "Assessing Autonomic Function from Electrodermal Activity and Heart Rate Variability During Cold-Pressor Test and Emotional Challenge", (2020) *Scientific Reports*, 10 (1), art. no. 5406.
- Greco A., Chiesa M.R., Da Prato I., Romanelli A.M., Dolciotti C., Cavallini G., Masciandaro S.M., Scilingo E.P., Del Carratore R., Bongioanni P., "Using blood data for the differential diagnosis and prognosis of motor neuron diseases: a new dataset for machine learning applications" (2021) *Scientific Reports*, 11 (1), art. no. 3371.
- Greco A., Valenza G., Lazaro J., Garzon-Rey J.M., Aguiló J., De-la-Camara C., Bailon R., Scilingo E.P., "Acute stress state classification based on electrodermal activity modeling" (2021) *IEEE Transactions on Affective Computing*.
- Ghiasi S., Greco A., Barbieri R., Scilingo E.P., Valenza G., "Assessing Autonomic Function from Electrodermal Activity and Heart Rate Variability During Cold-Pressor Test and Emotional Challenge" (2020) *Scientific Reports*, 10 (1), art. no. 5406.
- Scopa C., Greco A., Contalbrigo L., Fratini E., Lanata A., Scilingo E.P., Baragli P., "Inside the Interaction: Contact With Familiar Humans Modulates Heart Rate Variability in Horses" (2020) *Frontiers in Veterinary Science*, 7, art. no. 582759.
- Nardelli M., Greco A., Bianchi M., Scilingo E.P., Valenza G., "Classifying Affective Haptic Stimuli through Gender-Specific Heart Rate Variability Nonlinear Analysis (2020) *IEEE Transactions on Affective Computing*, 11 (3), art. no. 8301612, pp. 459-469.
- Nardelli M., Vanello N., Galperti G., Greco A., Scilingo E.P., "Assessing the quality of heart rate variability estimated from wrist and finger PPG: A novel approach based on cross-mapping method", (2020) *Sensors (Switzerland)*, 20 (11), art. no. 3156.
- Carli V., Wasserman D., Hadlaczký G., Petros N.G., Carletto S., Citi L., Dinis S., Gentili C., Gonzalez-Martinez S., Aldo De Leonibus, Meyer B., Ostacoli L., Ottaviano M., Ouakinin S., Paradiso R., Poli R., Rocha I., Settanta C., Waldmeyer M.T.A., Valenza G., Scilingo E.P., "A protocol for a multicentre, parallel-group, pragmatic randomised controlled trial to

- evaluate the NEVERMIND system in preventing and treating depression in patients with severe somatic conditions, (2020) *BMC Psychiatry*, 20 (1), art. no. 93.
21. Nardelli M., Lanata A., Valenza G., Felici M., Baragli P., Scilingo E.P., "A tool for the real-time evaluation of ECG signal quality and activity: Application to submaximal treadmill test in horses", (2020) *Biomedical Signal Processing and Control*, 56, art. no. 101666.
 22. Lanata A., Sebastiani L., Di Gruttola F., Di Modica S., Scilingo E.P., Greco A., "Nonlinear Analysis of Eye-Tracking Information for Motor Imagery Assessments", (2020) *Frontiers in Neuroscience*, 13, art. no. 1431.
 23. Nardelli M., Valenza G., Greco A., Lanatà A., Scilingo E.P., Bailón R., "Quantifying the lagged Poincaré plot geometry of ultrashort heart rate variability series: automatic recognition of odor hedonic tone", (2020) *Medical and Biological Engineering and Computing*, 58 (5), pp. 1099-1112.
 24. Scopa C., Contalbrigo L., Greco A., Lanatà A., Scilingo E.P., Baragli P., "Emotional transfer in human–horse interaction: New perspectives on equine assisted interventions", (2019) *Animals*, 9 (12), art. no. 1030.
 25. Ghiasi S., Greco A., Barbieri R., Scilingo E.P., Valenza G., "Assessing Autonomic Function from Electrodermal Activity and Heart Rate Variability During Cold-Pressor Test and Emotional Challenge", (2020) *Scientific Reports*, 10 (1), art. no. 5406.
 26. Greco A., Guidi A., Bianchi M., Lanata A., Valenza G., Scilingo E.P., "Brain Dynamics Induced by Pleasant/Unpleasant Tactile Stimuli Conveyed by Different Fabrics", (2019) *IEEE Journal of Biomedical and Health Informatics*, 23 (6), art. no. 8613768, pp. 2417-2427.
 27. Marín-Morales J., Higuera-Trujillo J.L., Greco A., Guixeres J., Llinares C., Gentili C., Scilingo E.P., Alcañiz M., Valenza G., "Real vs. immersive-virtual emotional experience: Analysis of psycho-physiological patterns in a free exploration of an art museum", (2019) *PLoS ONE*, 14 (10), art. no. e0223881.
 28. Catrambone V., Greco A., Scilingo E.P., Valenza G., "Functional linear and nonlinear brain-heart interplay during emotional video elicitation: A maximum information coefficient study", (2019) *Entropy*, 21 (9), art. no. 892.
 29. Nardelli M., Greco A., Bianchi M., Scilingo E.P., Valenza G., "Classifying Affective Haptic Stimuli through Gender-specific Heart Rate Variability Nonlinear Analysis", (2020) *IEEE Transactions on Affective Computing*, 11(3), art. n. 8301612, pp. 459-469.
 30. Nardelli M., Scilingo E.P., Valenza G., "Multichannel Complexity Index (MCI) for a multi-organ physiological complexity assessment", (2019) *Physica A: Statistical Mechanics and its Applications*, 530, 121543.
 31. Greco A., Faes L., Catrambone V., (...), Scilingo E.P., Valenza G., "Lateralization of directional brain-heart information transfer during visual emotional elicitation", (2019) *American journal of physiology. Regulatory, integrative and comparative physiology*, 317(1), pp. R25-R38.
 32. Averta G., Valenza G., Catrambone V., Barontini F., Scilingo E.P., Bicchi A., Bianchi M., "On the Time-Invariance Properties of Upper Limb Synergies", (2019) *IEEE Transactions on Neural Systems and Rehabilitation Engineering* 27(7), 8720217, pp. 1397-1406.
 33. Catrambone V., Greco A., Vanello N., Scilingo E.P., Valenza G., "Time-Resolved Directional Brain–Heart Interplay Measurement Through Synthetic Data Generation Models", (2019) *Annals of Biomedical Engineering* 47(6), pp. 1479-1489.
 34. Guidi A., Gentili C., Scilingo E.P., Vanello N., "Analysis of speech features and personality traits" (2019) *Biomedical Signal Processing and Control*, 51, pp. 1-7.
 35. Greco A., Valenza G., Bicchi A., Bianchi M., Scilingo E.P., "Assessment of muscle fatigue during isometric contraction using autonomic nervous system correlates" (2019) *Biomedical Signal Processing and Control*, 51, pp. 42-49.
 36. Catrambone V., Greco A., Averta G., Bianchi M., Valenza G., Scilingo E.P., "Predicting Object-Mediated Gestures from Brain Activity: An EEG Study on Gender Differences" (2019) *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 27 (3), art. no. 8638847, pp. 411-418.
 37. M. Nardelli, A. Greco, O.P Danzi, C. Perlini, F. Tedeschi, E. P Scilingo, L. Del Piccolo, G. Valenza," Cardiovascular Assessment of supporting Doctor-Patient Communication using multi-scale and multi-lag analysis of heartbeat dynamics", (2019) *Medical and Biological Engineering and Computing*, Vol. 57, Issue 1, pp. 123-134.
 38. Morelli, M.S., Greco, A., Valenza, G., Giannoni, A., Emdin, M., Scilingo, E.P., Vanello, N., "Analysis of generic coupling between EEG activity and $P_{ET} CO_2$ in free breathing and breath-hold tasks using Maximal Information Coefficient (MIC)", (2018) *Scientific Reports*, 8 (1), art. no. 4492.
 39. Marín-Morales, J., Higuera-Trujillo, J.L., Greco, A., Guixeres, J., Llinares, C., Scilingo, E.P., Alcañiz, M., Valenza, G., "Affective computing in virtual reality: emotion recognition from brain and heartbeat dynamics using wearable sensors", (2018) *Scientific Reports*, 8 (1), art. no. 13657.
 40. Danzi, O.P., Perlini, C., Tedeschi, F., Nardelli, M., Greco, A., Scilingo, E.P., Valenza, G., Del Piccolo, L., "Affective communication during bad news consultation. Effect on analogue patients' heart rate variability and recall", (2018) *Patient Education and Counseling*, 101 (11), pp. 1892-1899.
 41. Valenza, G., Greco, A., Bianchi, M., Nardelli, M., Rossi, S., Scilingo, E.P., "EEG oscillations during caress-like affective haptic elicitation", (2018) *Psychophysiology*, 55 (10), art. no. e13199.
 42. Nardelli, M., Greco, A., Danzi, O.P., Perlini, C., Tedeschi, F., Scilingo, E.P., Del Piccolo, L., Valenza, G., "Cardiovascular assessment of supportive doctor-patient communication using multi-scale and multi-lag analysis of heartbeat dynamics", (2019) *Medical and Biological Engineering and Computing* 57(1), pp. 123-134.
 43. Nardelli, M., Greco, A., Bolea, J., Valenza, G., Scilingo, E.P., Bailon, R., "Reliability of lagged poincaré plot parameters in ultrashort heart rate variability series: Application on affective sounds", (2018) *IEEE Journal of Biomedical and Health Informatics*, 22 (3), pp. 741-749.
 44. Greco, A., Benvenuti, S.M., Gentili, C., Palomba, D., Scilingo, E.P., Valenza, G., "Assessment of linear and nonlinear/complex heartbeat dynamics in subclinical depression (dysphoria)", (2018) *Physiological Measurement*, 39 (3), art. no. 034004.

45. Greco, A., Valenza, G., Scilingo, E.P., "Brain Dynamics during Arousal-dependent Pleasant/Unpleasant Visual Elicitation: An Electroencephalographic Study on the Circumplex Model of Affect", (2018) IEEE Transactions on Affective Computing. Article in Press.
46. Nardelli M., Lanata A., Bertschy G., Scilingo E.P., Valenza G., "Heartbeat Complexity Modulation in Bipolar Disorder during Daytime and Nighttime", Scientific Reports Open Access, Volume 7, Issue 1, 1 December 2017.
47. Gentili C., Messerotti Benvenuti S., Palomba D., Greco A., Scilingo E.P., Valenza G., "Assessing mood symptoms through heartbeat dynamics: An HRV study on cardiosurgical patients", Journal of Psychiatric Research, Volume 95, December 2017, Pages 179-188.
48. Guidi A., Schoentgen J., Bertschy G., Gentili C, Scilingo E.P., Vanello N., "Features of vocal frequency contour and speech rhythm in bipolar disorder", Biomedical Signal Processing and Control, Vol. 37, (2017), Pages 23-31.
49. Greco A., Valenza G., Nardelli M., Bianchi, M., Citi L., Scilingo E.P., "Force-Velocity Assessment of Caress-Like Stimuli Through the Electrodermal Activity Processing: Advantages of a Convex Optimization Approach", IEEE Transactions on Human-Machine Systems, Volume 47, Issue 1, (2017), pp. 91-100.
50. Gentili, C., Valenza, G., Nardelli, M., Lanata, A., Bertschy, G., Weiner, L., Mauri, M., Scilingo, E.P., Pietrini, P., "Longitudinal monitoring of heartbeat dynamics predicts mood changes in bipolar patients: A pilot study" (2017) Journal of Affective Disorders, 209, pp. 30-38.
51. Guidi, A., Lanata, A., Baragli, P., Valenza, G., Scilingo, E.P., "A wearable system for the evaluation of the human-horse interaction: A preliminary study" (2016) Electronics (Switzerland), 5 (4), art. no. 63.
52. Greco, A., Lanata, A., Citi, L., Vanello, N., Valenza, G., Scilingo, E.P., "Skin admittance measurement for emotion recognition: A study over frequency sweep" (2016) Electronics (Switzerland), 5 (3), art. no. 46.
53. Greco, A., Valenza, G., Nardelli, M., Bianchi, M., Citi, L., Scilingo, E.P., "Force-Velocity Assessment of Caress-Like Stimuli Through the Electrodermal Activity Processing: Advantages of a Convex Optimization Approach" (2017) IEEE Transactions on Human-Machine Systems 47(1), 7522616, pp. 91-100.
54. Valenza, G., Nardelli, M., Lanata, A., Gentili, C., Bertschy, G., Kosel, M., Scilingo, E.P., "Predicting Mood Changes in Bipolar Disorder Through Heartbeat Nonlinear Dynamics" (2016) IEEE Journal of Biomedical and Health Informatics, 20 (4), art. no. 7454702, pp. 1034-1043.
55. Valenza, G., Carli, V., Lanata, A., Chen, W., Jafari, R., Scilingo, E.P., "Guest Editorial: Sensor Informatics for Managing Mental Health" (2016) IEEE Journal of Biomedical and Health Informatics, 20 (4), art. no. 7505475, pp. 975-976.
56. Valenza, G., Greco, A., Citi, L., Bianchi, M., Barbieri, R., Scilingo, E.P., "Inhomogeneous Point-Processes to Instantaneously Assess Affective Haptic Perception through Heartbeat Dynamics Information" (2016) Scientific Reports, 6, art. no. 28567.
57. G. Valenza, A. Greco, C. Gentili, A. Lanata, L. Sebastiani, D. Menicucci, A. Gemignani, E.P. Scilingo, "Combining EEG Activity and Instantaneous Heart Rate for Assessing Brain-Heart Dynamics during Visual Emotional Elicitation in Healthy Subjects", Philosophical Transactions of the Royal Society A, 2016, 374 (2016), pp. 1-18.
58. G. Valenza, S. Orsolini, S. Diciotti, L. Citi, E.P. Scilingo, M. Guerrisi, S. Danti, C. Lucetti, C. Tessa, R. Barbieri, N. Toschi, "Assessment of Spontaneous Cardiovascular Oscillations in Parkinson's Disease", Biomedical Signal Processing and Control, vol. 26, pp. 80-89, 2016.
59. A. Greco, G. Valenza, A. Lanata, E.P. Scilingo, L. Citi. "cvxEDA: a Convex Optimization Approach to Electrodermal Activity Processing", IEEE Transactions on Biomedical Engineering, 2016, Vol. 63, Issue 4, pp. 797-804.
60. Guidi, A., Salvi, S., Ottaviano, M., Gentili, C., Bertschy, G., de Rossi, D., Scilingo, E.P., Vanello, N., "Smartphone application for the analysis of prosodic features in running speech with a focus on bipolar disorders: System performance evaluation and case study", (2015) Sensors (Switzerland), 15 (11), pp. 28070-28087.
61. M. Nardelli, G. Valenza, A. Greco, A. Lanata, and E.P. Scilingo, "Recognizing Emotions Induced by Affective Sounds through Heart Rate Variability", IEEE Transactions on Affective Computing, vol. 6, num. 4, pp. 385-394, 2015.
62. A. Lanata, G. Valenza, A. Greco, E.P. Scilingo, "Robust head mounted wearable eye tracking system for dynamical calibration", Journal of Eye Movement Research, vol. 8, num. 5, pp. 1-15, 2015.
63. A. Lanata, A. Guidi, P. Baragli, G. Valenza, E.P. Scilingo. "A Novel Algorithm for Movement Artifact Removal in ECG signals acquired from Wearable Systems Applied to Horses", PLoS One, vol. 10, num. 10, e0140783, 2015.
64. G. Valenza, L. Citi, C. Gentili, A. Lanata, E.P. Scilingo, and R. Barbieri. "Characterization of Depressive States in Bipolar Patients using Wearable Textile Technology and Instantaneous Heart Rate Variability Assessment", IEEE Journal of Biomedical and Health Informatics, vol. 19, num. 1, pp. 263-274, 2015.
65. Lanata, A., Valenza, G., Greco, A., Gentili, C., Bartolozzi, R., Bucchi, F., Frenzo, F., Scilingo, E.P., "How the Autonomic nervous system and driving style change with incremental stressing conditions during simulated driving" (2015) IEEE Transactions on Intelligent Transportation Systems, 16 (3), art. no. 6964800, pp. 1505-1517.
66. Nardelli, M., Valenza, G., Cristea, I.A., Gentili, C., Cotet, C., David, D., Lanata, A., Scilingo, E.P., "Characterizing psychological dimensions in non-pathological subjects through autonomic nervous system dynamics" (2015) Frontiers in Computational Neuroscience, 9 (MAR), art. no. 37, 12 p.
67. Lanata, A., Valenza, G., Nardelli, M., Gentili, C., Scilingo, E.P., "Complexity index from a personalized wearable monitoring system for assessing remission in mental health" (2015) IEEE Journal of Biomedical and Health Informatics, 19 (1), art. no. 6912930, pp. 132-139.
68. Valenza, G., Garcia, R.G., Citi, L., Scilingo, E.P., Tomaz, C.A., Barbieri, R., "Nonlinear digital signal processing in mental health: Characterization of major depression using instantaneous entropy measures of heartbeat dynamics" (2015) Frontiers in Physiology, 6 (MAR), art. no. 74, .
69. Guidi, A., Vanello, N., Bertschy, G., Gentili, C., Landini, L., Scilingo, E.P., "Automatic analysis of speech F0 contour for the characterization of mood changes in bipolar patients" (2015) Biomedical Signal Processing and Control, 17, pp. 29-37.
70. Valenza, G., Citi, L., Gentili, C., Lanata, A., Scilingo, E.P., Barbieri, R., "Characterization of depressive states in bipolar patients using wearable textile technology and instantaneous heart rate variability assessment", (2015) IEEE Journal of Biomedical and Health Informatics, 19 (1), art. no. 6746656, pp. 263-274.

71. Cristea, I.A., Valenza, G., Scilingo, E.P., Szentágotai Tătar, A., Gentili, C., David, D., “Autonomic effects of cognitive reappraisal and acceptance in social anxiety: Evidence for common and distinct pathways for parasympathetic reactivity” (2014) *Journal of Anxiety Disorders*, 28 (8), pp. 795-803.
72. Greco, A., Valenza, G., Lanata, A., Rota, G., Scilingo, E.P., “Electrodermal activity in bipolar patients during affective elicitation” (2014) *IEEE Journal of Biomedical and Health Informatics*, 18 (6), art. no. 6731560, pp. 1865-1873.
73. Valenza, G., Nardelli, M., Lanatà, A., Gentili, C., Bertschy, G., Paradiso, R., Scilingo, E.P., “Wearable monitoring for mood recognition in bipolar disorder based on history-dependent long-term heart rate variability analysis” (2014) *IEEE Journal of Biomedical and Health Informatics*, 18 (5), art. no. A3, pp. 1625-1635.
74. Valenza, G., Nardelli, M., Bertschy, G., Lanata, A., Scilingo, E.P., “Mood states modulate complexity in heartbeat dynamics: A multiscale entropy analysis” (2014) *EPL*, 107 (1), art. no. 18003.
75. Valenza, G., Citi, L., Lanatà, A., Scilingo, E.P., Barbieri, R., “Revealing real-time emotional responses: A personalized assessment based on heartbeat dynamics” (2014) *Scientific Reports*, 4, art. no. 4998, .
76. Valenza, G., Citi, L., Scilingo, E.P., Barbieri, R., “Inhomogeneous point-process entropy: An instantaneous measure of complexity in discrete systems” (2014) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 89 (5), art. no. 052803.
77. Valenza, G., Citi, L., Gentili, C., Lanatà, A., Scilingo, E.P., Barbieri, R., “Point-process nonlinear autonomic assessment of depressive states in bipolar patients” (2014) *Methods of Information in Medicine*, 53 (4), pp. 296-302.
78. Valenza, G., Lanatà, A., Paradiso, R., Scilingo, E.P., “Advanced technology meets mental health: How smartphones, textile electronics, and signal processing can serve mental health monitoring, diagnosis, and treatment” (2014) *IEEE Pulse*, 5 (3), art. no. 6814374, pp. 56-59.
79. Lanatà, A., Valenza, G., Scilingo, E.P., “Eye gaze patterns in emotional pictures” (2013) *Journal of Ambient Intelligence and Humanized Computing*, 4 (6), pp. 705-715.
80. Inderbitzin, M.P., Betella, A., Lanatà, A., Scilingo, E.P., Bernardet, U., Verschure, P.F.M.J., “The social perceptual salience effect” (2013) *Journal of Experimental Psychology: Human Perception and Performance*, 39 (1), pp. 62-74.
81. Valenza, G., Citi, L., Scilingo, E.P., Barbieri, R., “Point-process nonlinear models with laguerre and volterra expansions: Instantaneous assessment of heartbeat dynamics” (2013) *IEEE Transactions on Signal Processing*, 61 (11), art. no. 6484190, pp. 2914-2926.
82. Valenza, G., Lanatà, A., Scilingo, E.P., “Improving emotion recognition systems by embedding cardiorespiratory coupling” (2013) *Physiological Measurement*, 34 (4), pp. 449-464.
83. Valenza, G., Gentili, C., Lanatà, A., Scilingo, E.P., “Mood recognition in bipolar patients through the PSYCHE platform: Preliminary evaluations and perspectives” (2013) *Artificial Intelligence in Medicine*, 57 (1), pp. 49-58.
84. Armato, A., Lanatà, A., Scilingo, E.P., “Comparative study on photometric normalization algorithms for an innovative, robust and real-time eye gaze tracker” (2013) *Journal of Real-Time Image Processing*, 8 (1), pp. 21-33.
85. Lanatà, A., Valenza, G., Scilingo, E.P., “A novel EDA glove based on textile-integrated electrodes for affective computing” (2012) *Medical and Biological Engineering and Computing*, 50 (11), pp. 1163-1172.
86. Valenza, G., Lanata, A., Scilingo, E.P., “The role of nonlinear dynamics in affective valence and arousal recognition” (2012) *IEEE Transactions on Affective Computing*, 3 (2), art. no. 6007125, pp. 237-249.
87. Valenza, G., Lanata, A., Scilingo, E.P., “Oscillations of heart rate and respiration synchronize during affective visual stimulation” (2012) *IEEE Transactions on Information Technology in Biomedicine*, 16 (4), art. no. 6194330, pp. 683-690.
88. G. Valenza, P. Allegrini, A. Lanatà, E.P. Scilingo, “Dominant Lyapunov exponent and approximate entropy in heart rate variability during emotional visual elicitation”, *Frontiers in Neuroengineering*, 5:3. February 2012. DOI: 10.3389/fneng.2012.00003.
89. Laurino M, Menicucci D, Mastorci F, Allegrini P, Piarulli A, Scilingo EP, Bedini R, Pingitore A, Passera M, L'Abbate A and Gemignani A (2012) Mind-body relationships in elite apnea divers during breath holding: a study of autonomic responses to acute hypoxemia. *Front. Neuroeng.* 5:4. March 2012. DOI: 10.3389/fneng.2012.00004
90. G. Valenza, G. Pioggia, A. Armato, M. Ferro, E. P. Scilingo, and D. De Rossi, “A neuron-astrocyte transistor-like model for neuromorphic dressed neurons,” *Neural Networks*, vol. 24, no. 7, pp. 679–685, 2011.
91. A. Tognetti, E.P. Scilingo, G. Anania, N. Carbonaro, A. Lanatà, F. Lorussi, D. Mazzei, G. Valenza, D. De Rossi, “Wearable Systems for Brain body Reading and Mind Healing”, *CyberTherapy & Rehabilitation (C&R) Magazine- Personalized Health Systems* issue, pages: 39--40, 2011.
92. A. Armato, A. Lanatà, and E.P. Scilingo, “Comparative study on photometric normalization algorithms for an innovative, robust and real-time eye gaze tracker,” *Journal of Real-Time Image Processing*, pp. 1–13, 2011.
93. A. Armato, L. Fanucci, E.P. Scilingo, and D. De Rossi, “Low-error digital hardware implementation of artificial neuron activation functions and their derivative,” *Microprocessors and Microsystems*, vol. 35, no. 6, pp. 557–567, 2011.
94. A. Lanatà, G. Valenza, C. Mancuso, and E.P. Scilingo, “Robust multiple cardiac arrhythmia detection through bispectrum analysis”, *Expert Systems with Applications*, vol. 38, no. 6, pp. 6798–6804, 2011.
95. U. Debarnot, G. Valenza, S. Champely, E.P. Scilingo, D. De Rossi, and A. Guillot, “Motor imagery effectiveness for mirror reversed movements,” *Cognitive, Affective and Behavioral Neuroscience*, vol. 11, no. 1, pp. 22–31, 2011.
96. E.P. Scilingo, M. Bianchi, G. Grioli, and A. Bicchi, “Rendering softness: Integration of kinesthetic and cutaneous information in a haptic device,” *IEEE Transactions on Haptics*, vol. 3, no. 2, pp. 109–118, 2010.
97. A. Lanatà, E.P. Scilingo, D. De Rossi, “A multimodal transducer for cardiopulmonary activity monitoring in emergency”, *IEEE Transactions on Information Technology in Biomedicine*, pp 817-826, 2010.
98. A. Lanatà, E.P. Scilingo, E. Nardini, G. Loriga, R. Paradiso, and D. De-Rossi, “Comparative evaluation of susceptibility to motion artifact in different wearable systems for monitoring respiratory rate”, *IEEE Transactions on Information Technology in Biomedicine*, vol. 14, no. 2, pp. 378–386, 2010.
99. A. Lanatà, G. Valenza, E.P. Scilingo, “Electrodermal responses through textile electrodes”, *Research Journal of Textile and Apparel*, vol. 14 N. 4, pp 81-88, 2010.
100. N. Vanello, V. Hartwig, M. Tesconi, E. Ricciardi, A. Tognetti, G. Zupone, R. Gassert, D. Chapuis, N. Sgambelluri, E.P. Scilingo, G. Giovannetti, V. Positano, M. Santarelli, A. Bicchi, P. Pietrini, D. Rossi, and L.

- Landini, "Sensing glove for brain studies: Design and assessment of its compatibility for fmri with a robust test," *IEEE/ASME Transactions on Mechatronics*, vol. 13, no. 3, pp. 345–354, 2008.
101. M. Tesconi, A. Tognetti, E.P. Scilingo, G. Zupone, F. Menichetti, P. Galantini, D. De Rossi, "Evaluation of rotation/laxity of the knee joint", *GAIT & POSTURE*, vol. 28, pp 1-9, 2008.
 102. A. Bicchi, E.P. Scilingo, E. Ricciardi, and P. Pietrini, "Tactile flow explains haptic counterparts of common visual illusions," *Brain Research Bulletin*, vol. 75, no. 6, pp. 737–741, 2008.
 103. E. Ricciardi, N. Vanello, L. Sani, C. Gentili, E.P. Scilingo, L. Landini, M. Guazzelli, A. Bicchi, J. Haxby, and P. Pietrini, "The effect of visual experience on the development of functional architecture in hmt+," *Cerebral Cortex*, vol. 17, no. 12, pp. 2933–2939, 2007.
 104. R. Rizzo, N. Sgambelluri, E.P. Scilingo, M. Raugi, and A. Bicchi, "Electromagnetic modeling and design of haptic interface prototypes based on magnetorheological fluids," *IEEE Transactions on Magnetics*, vol. 43, no. 9, pp. 3586–3599, 2007.
 105. E.P. Scilingo, A. Gemignani, R. Paradiso, N. Taccini, B. Ghelarducci and D. De Rossi, "Performance Evaluation of Sensing Fabrics for Monitoring Physiological and Biomechanical Variables", *IEEE Transactions on Information Technology in Biomedicine*, vol. 9, no. 3, pp. 345-352, 2005.
 106. D. De Rossi, F. Carpi, E.P. Scilingo, "Polymer based interfaces as bioinspired 'smart Skins'", *Advances in Colloid and Interface Science*, vol. 116, pp 165-178, 2005.
 107. F. Lorussi, E.P. Scilingo, M. Tesconi, A. Tognetti, and D. De Rossi, "Strain Sensing Fabric for Hand Posture and Gesture Monitoring", *IEEE Transactions on Information Technology in Biomedicine*, vol. 9, no. 3, pp 372-381, 2005.
 108. F. Lorussi, W. Rocchia, E.P. Scilingo, A. Tognetti, and D. De Rossi, "Wearable, Redundant Fabric-Based Sensor Arrays for Reconstruction of Body Segment Posture", *IEEE Sensors Journal*, vol. 4, no. 6, pp 807-818, 2004.
 109. D. De Rossi, F. Carpi, F. Lorussi, A. Mazzoldi, R. Paradiso, E.P. Scilingo, A. Tognetti, "Electroactive Fabrics And Wearable Biomonitoring Devices", *AUTEX Research Journal*, vol. 3, no.4, pp. 180-185 December 2003.
 110. E.P. Scilingo, F. Lorussi, A. Mazzoldi, and D. De Rossi, "Strain-sensing fabrics for wearable kinaesthetic-like systems," *IEEE Sensors Journal*, vol. 3, no. 4, pp. 460–467, 2003.
 111. A. Mazzoldi, D. De Rossi, F. Lorussi, E.P. Scilingo, and R. Paradiso, "Smart textiles for wearable motion capture systems," *Autex Research Journal*, vol. 2, no. 4, pp. 199–203, 2002.
 112. A. Bicchi, E.P. Scilingo, and D. De Rossi, "Haptic discrimination of softness in teleoperation: the role of the contact area spread rate," *IEEE Transactions on Robotics and Automation*, vol. 16, no. 5, pp. 496–504, 2000.

Books

113. A. Greco, G. Valenza and E.P. Scilingo, *Advances in Electrodermal Activity Processing with Applications on Emotions and Mental Health: From Heuristic Methods to Convex Optimization*. Series in BioEngineering, Springer International Publishing, pp. 1-138, 2016.
114. G. Valenza and E.P. Scilingo, *Autonomic Nervous System Dynamics for Mood and Emotional-state Recognition: Significant Advances in Data Acquisition, Signal Processing and Classification*. Series in BioEngineering, Springer International Publishing, pp. 1-162, 2014.

Chapters in books

115. G. Valenza and E.P. Scilingo, "Exploiting Physiological Sensors and Biosignal Processing to Enhance Monitoring Care in Mental Health", Book Chapter in: *Handbook of Large-Scale Distributed Computing in Smart Healthcare*, Springer International Publishing, 2017, pp. 515-550.
116. A. Lanata, E.P. Scilingo, Smart textiles: technology and WSN applications, Chapter 6 of the book entitled "Autonomous sensor networks, Collective sensing strategies for analytical purposes", chapter invited, Edited by: Daniel Filippini, Springer, Accepted 2012.
117. E.P. Scilingo, M. Bianchi, Nicola Vanello, V. Hartwig, L. Landini, A. Bicchi, "Artificially Rendered Cutaneous Cues for a New Generation of Haptic Displays", in *Immersive Multimodal Interactive Presence*, Springer Series on Touch and Haptic Systems 2012, pp 171-188.
118. N. Vanello, V. Hartwig, E.P. Scilingo, D. Bonino, E. Ricciardi, A. Tognetti, P. Pietrini, D. De Rossi, L. Landini, A. Bicchi, "FMRI Compatible Sensing Glove for Hand Gesture Monitoring" in *Immersive Multimodal Interactive Presence*, Springer Series on Touch and Haptic Systems 2012, pp 215-228.
119. E.P. Scilingo, A. Lanatà, A. Tognetti, "Sensors for wearable systems" in *Wearable Monitoring Systems*, Springer, pp 3-25, 2011.
120. A. Bicchi, E.P. Scilingo, N. Sgambelluri, "Haptics Research in Dynamic haptics: tactile flow" in *The Sense of Touch and its Rendering: Progresses*, pp. 41-64, 2008.
121. V. Hartwig, C. Cappelli, N. Vanello, E. Ricciardi, E.P. Scilingo, G. Giovannetti, M.F.Santarelli, V. Positano, P. Pietrini, L. Landini, A. Bicchi, "Electrocutaneous stimulation of skin mechanoreceptors for tactile studies with functional Magnetic Resonance Imaging" in *Encyclopedia of Healthcare Information Systems*, pp. 497-503, 2007.
122. E.P. Scilingo, N. Sgambelluri, A. Bicchi, ARISER 2006 "Haptic Interfaces for Biomedical Applications" in *Augmented Reality in Surgery*, pp 133-142, 2006.
123. D. De Rossi, F. Carpi, F. Lorussi, E.P. Scilingo, A. Tognetti, "Wearable Mechanosensing and Emerging Technologies in Fabric-based Actuation" in *Intelligent Textiles for Personal Protection and Safety*, pp 55-64, 2006.
124. A. Bicchi, E.P. Scilingo, D. Dente, and N. Sgambelluri, "Tactile Flow and Haptic Discrimination of Softness" in *Multi-point Interaction with Real and Virtual Objects*, pp 165-176, Springer Verlag, 2005.
125. D. De Rossi, F. Carpi, F. Lorussi, R. Paradiso, E.P. Scilingo, and A. Tognetti, "Electroactive fabrics and wearable man-machine interfaces" in *Wearable Electronics and Photonics*, pp 59-80, Woodhead Publishing Ltd, 2005.

126. D. De Rossi, F. Lorussi, E.P. Scilingo, F. Carpi, A. Tognetti, and M. Tesconi, "Artificial kinesthetic systems for telerehabilitation" in *Wearable eHealth Systems for Personalised Health Management*, pp 209-213, IOS Press, 2004.
127. E.P. Scilingo, "I sensori fisici" in *Sensori per Misure Biomediche*, pp 59-107, Patron, 2004.
128. R. Paradiso, A. Gemignani, E.P. Scilingo, D. De Rossi, "Knitted Bio-clothes for Cardiopulmonary Monitoring" in *Engineering in Medicine and Biology Society (IEEE): A New Beginning for Human Health*, pp 3720-3723, 2003.
129. D. De Rossi, F. Lorussi, A. Mazzoldi, P. Orsini, and E.P. Scilingo, "Active dressware: wearable kinesthetic systems" in *Sensors and sensing in biology and engineering*, pp 379-392, Springer Wien, 2003.
130. D. De Rossi, F. Lorussi, A. Mazzoldi, and E.P. Scilingo, "Wearable thermo- and piezoresistive sensors: realization and properties" in *Sensors and Microsystems*, pp 195-200, World Scientific, 2001.
131. A. Bicchi, E.P. Scilingo, D. De Rossi, "Experimental Validation of a Psychophysical Conjecture on a Simplified Model of the Haptic Perceptual Channel" in *Robotics Research*, pp 179-184, Springer Verlag, 2000.

International proceedings

132. Nardelli M., Lanata A., Di Francesco F., Scilingo E.P., "Investigating complex cardiovascular dynamics during hedonic olfactory elicitation", (2020) 2020 11th Conference of the European Study Group on Cardiovascular Oscillations: Computation and Modelling in Physiology: New Challenges and Opportunities, ESGCO 2020, art. no. 9158017.
133. Lanata A., Sebastiani L., Di Modica S., Scilingo E.P., Greco A., "Classifying human motor imagery abilities from heart rate variability analysis: a preliminary study", (2020) 2020 11th Conference of the European Study Group on Cardiovascular Oscillations: Computation and Modelling in Physiology: New Challenges and Opportunities, ESGCO 2020, art. no. 9158178.
134. Nardelli M., Faraguna U., Grandi G., Bruno R.M., Scilingo E.P., Valenza G., "Multichannel Complexity Index Analysis for Cardiovascular Dynamics associated with a Dream Recall", (2020) 2020 11th Conference of the European Study Group on Cardiovascular Oscillations: Computation and Modelling in Physiology: New Challenges and Opportunities, ESGCO 2020, art. no. 9158190.
135. Ghiasi S., Patane A., Greco A., Laurenti L., Scilingo E.P., Kwiatkowska M., "Gaussian Processes with Physiologically-Inspired Priors for Physical Arousal Recognition", (2020) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, 2020-July, art. no. 9176437, pp. 54-57.
136. Ghiasi S., Greco A., Faes L., Javorka M., Barbieri R., Scilingo E.P., Valenza G., "Towards Disentangling the Contribution of Different Pathways for the Regulation of Cardiac Activity: A Pilot Study", (2020) 2020 11th Conference of the European Study Group on Cardiovascular Oscillations: Computation and Modelling in Physiology: New Challenges and Opportunities, ESGCO 2020, art. no. 9158187.
137. Callara A.L., Sebastiani L., Santarcangelo E.L., Ghiasi S., Fratini E., Lanata A., Vanello N., Scilingo E.P., Greco A., "A preliminary study on parasympathetic-sympathetic interaction through the analysis of heart rate variability and electrodermal activity", (2020) 2020 11th Conference of the European Study Group on Cardiovascular Oscillations: Computation and Modelling in Physiology: New Challenges and Opportunities, ESGCO 2020, art. no. 9158026.
138. Nardelli M., Condino S., Ghiasi S., Callara A.L., Rho G., Carbone M., Ferrari V., Scilingo E.P., Greco A., "Recognizing AR-guided manual tasks through autonomic nervous system correlates: A preliminary study", (2020) IEEE Medical Measurements and Applications, MeMeA 2020 - Conference.
139. Rho G., Callara A.L., Condino S., Ghiasi S., Nardelli M., Carbone M., Ferrari V., Greco A., Scilingo E.P., "A preliminary quantitative EEG study on Augmented Reality Guidance of Manual Tasks", (2020) IEEE Medical Measurements and Applications, MeMeA 2020 - Conference.
140. Lanata A., Greco A., Di Modica S., Niccolini F., Vivaldi F., Di Francesco F., Tamantini C., Cordella F., Zollo L., Di Rienzo M., Massaroni C., Schena E., Di Sarto M., Scilingo E.P., "A New Smart-Fabric based Body Area Sensor Network for Work Risk Assessment", (2020) 2020 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2020 - Proceedings, art. no. 9138273, pp. 187-190.
141. Greco A., Marzi C., Lanata A., Scilingo E.P., Vanello N., "Combining Electrodermal Activity and Speech Analysis towards a more Accurate Emotion Recognition System", (2019) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 8857745, pp. 229-232.
142. Catrambone V., Wendt H., Scilingo E.P., Barbieri R., Abry P., Valenza G., "Heartbeat Dynamics Analysis under Cold-Pressure Test using Wavelet p-Leader Non-Gaussian Multiscale Expansions", (2019) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 8856653, pp. 2023-2026.
143. Ghiasi S., Valenza G., Morelli M.S., Bianchi M., Scilingo E.P., Greco A., "The Role of Haptic Stimuli on Affective Reading: A Pilot Study", (2019) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 8857337, pp. 4938-4941.
144. Nardelli M., Faraguna U., Grandi G., Bruno R.M., Valenza G., Scilingo E.P., "The Complexity of Dreams: A Multiscale Entropy Study on Cardiovascular Variability Series", (2019) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 8857120, pp. 2015-2018.
145. Ghiasi S., Greco A., Faes L., Javorka M., Barbieri R., Scilingo E.P., Valenza G., "Quantification of Different Regulatory Pathways Contributing to Heartbeat Dynamics during Multiple Stimuli: A Proof of the Concept", (2019) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 8856461, pp. 4934-4937.
146. Catrambone V., Valenza G., Scilingo E.P., Vanello N., Wendt H., Barbieri R., Abry P., "Wavelet p-Leader Non-Gaussian Multiscale Expansions for EEG series: An Exploratory Study on Cold-Pressor Test", (2019) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 8856396, pp. 7096-7099.
147. Hernando D., Nardelli M., Hocking K., Lazaro J., Alvis B., Gil E., Scilingo E.P., Brophy D.R., Valenza G., Laguna P., Brophy C., Bailon R., "Effect of yoga on pulse rate variability measured from a venous pressure waveform", (2019)

- Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 8856657, pp. 372-375.
148. Marzi C., Greco A., Scilingo E.P., Vanello N., "Electrodermal activity and speech features as predictors for arousal level changes after affective word pronunciation", (2019) Models and Analysis of Vocal Emissions for Biomedical Applications - 11th International Workshop, MAVEBA 2019, pp. 93-96.
 149. A. Lanatà, M. Nardelli, G. Valenza, P.Baragli, D.Draniello, A.Alterisio, A. Scandurra, G.R. Semin, E.P Scilingo, A Case of interspecies Transfer of Emotions: A Preliminary investigation on How Humans Odors Modify Reactions of the Automatic Nervous System in Horses, 40th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii Convention Center, Honolulu, United States, 2018.
 150. V Catrambone, G. Valenza, A. Greco, G. Averta, M. Bianchi, A. Bicchi, E.P Scilingo, EEG Complexity Maps to characterise brain Dynamics during Upper Limb Motor Imagery, 40th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii Convention Center, Honolulu, United States, 2018.
 151. A. Greco, D.Spada, S. Rossi, D. Perani, G. Valenza, E. P Scilingo, EEG Hyperconnectivity Study on Saxophone Quarter Playing in Ensemble, 40th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii Convention Center, Honolulu, United States, 2018.
 152. V. Catrambone, M. Nardelli, G. Greco, S. Ghiasi, N. Vanello, G. Valenza, E. P Scilingo, A New Modelling Framework to study Time- Varying Directional Brain-Heart Interactions: Preliminary Evaluations and Perspectives, 40th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii Convention Center, Honolulu, United States, 2018.
 153. M. Nardelli, A. Greco, E. P Scilingo, G. Valenza, R. Bailon, A. Lanatà, A Multiclass Arousal Recognition using HRV Nonlinear Analysis and Affective Images, 40th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii Convention Center, Honolulu, United States, 2018.
 154. S. Ghiasi, A. Greco, M. Nardelli, V. Catrambone, E.P Scilingo, R. Barbieri, G. Valenza, A New Sympathovagal Balance Index from Electrodermal Activity and Instantaneous Vagal Dynamics: A Preliminary Cold Pressor Study, 40th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii Convention Center, Honolulu, United States, 2018
 155. M. Nardelli, E.P Scilingo, G. Valenza, Refined Generalized multivariate multiscale fuzzy entropy: A preliminary Study on Multichannel psychological complexity during postural changes, 26th European Signal Processing Conference, EUPISCO, Rome, Italy, 2018.
 156. V. Catrambone, A.Greco, E.P Scilingo, N. Vanello, G. Valenza, G. Averta, M. Bianchi, A. Bicchi, EEG Processing to Discriminate Transitive- Intransitive Imagery Tasks: Preliminary Evidences using Support Vector Machines, 40th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii Convention Center, Honolulu, United States, 2018.
 157. M. Nardelli, A. Lanatà, G. Valenza, M. Sgorbini, P. Baragli, E.P Scilingo, Real Time Evaluation of ECG Acquisition Systems through Signal quality Assessment in Horses during Submaximal Treadmill Test, 40th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii Convention Center, Honolulu, United States, 2018.
 158. A. Lanatà, A. Guidi, G. Valenza, P. Baragli, E.P Scilingo, The role of nonlinear coupling in Human-Horse Interaction: A preliminary Study, 39th Annual International Conference of IEEE Engineering in Medicine and Biology Society, International Convention Center, Jeju Island, South Korea, 2017.
 159. A. Lanatà, A. Guidi, A.Greco, G.Valenza, E.P Scilingo, Monitory voluntary blink magnitude through a wearable eye-tracking system: A preliminary Study, 39th Annual International Conference of IEEE Engineering in Medicine and Biology Society, International Convention Center, Jeju Island, South Korea, 2017.
 160. A.Greco, A.Guidi, F.Felici, A. Leo, E.Ricciardi, M. Bianchi, A. Bicchi, L.Citi, G. Valenza, E.P Scilingo, Muscle fatigue Assessment through electrodermal activity analysis during isometric contraction, 39th Annual International Conference of IEEE Engineering in Medicine and Biology Society, International Convention Center, Jeju Island, South Korea, 2017.
 161. M Bianchi, G Valenza, A Greco, M Nardelli, E Battaglia, A Bicchi, EP Scilingo, Towards a Novel Generation of Haptic and Robotic Interfaces: Integrating Affective Physiology in Human-Robot Interaction, 25th IEEE International Symposium on Robot and Human Interactive Communication, (RO-MAN) 2016.
 162. M Nardelli, A Greco, M Bianchi, EP Scilingo, and G Valenza, On the Pleasantness of a Haptic Stimulation: How Different Textures can be Recognized through Heart Rate Variability Nonlinear Analysis, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October,7591497, pp. 3560-3563.
 163. A Greco, G Valenza, EP Scilingo, Investigating Mechanical Properties of a Fabric-based Affective Haptic Display through Electrodermal Activity Analysis, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October,7590726, pp. 407-410.
 164. G Valenza, A Greco, C Gentili, A Lanata', N Toschi, R Barbieri, L Sebastiani, D Menicucci, A Gemignani, EP Scilingo, Brain-Heart Linear and Nonlinear Dynamics during Visual Emotional Elicitation in Healthy Subjects, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October,7591971, pp. 5497-5500.
 165. G Valenza, G Vannucci, D De Rossi, E Wanke, EP Scilingo, Stochastic Modeling of Spontaneous Bursting Activity to Simulate Neural Responses of in-vitro Networks on Multielectrode Arrays, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October,7591022, pp. 1616-1619.
 166. G Valenza, A Romigi, L Citi, P Fabio, I Francesca, A Maria, EP Scilingo, MG Marciani, A Duggento, M Guerri, N Toschi, R Barbieri, Predicting Seizures in Untreated Temporal Lobe Epilepsy using Point-Process Nonlinear Models of Heartbeat Dynamics, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October,7590867, pp. 985-988.
 167. MS Morelli, G Valenza, A Greco, A Giannoni, M Emdin, C Passino, EP Scilingo, N Vanello, Exploratory analysis of nonlinear coupling between EEG global field power and end-tidal carbon dioxide in free breathing and breath-hold tasks, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October,7590805, pp. 728-731.
 168. A Lanata', A Guidi, G Valenza, P Baragli, EP Scilingo, Quantitative Heartbeat Coupling Measures in Human-Horse

- Interaction, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October, 7591286, pp. 2696-2699.
169. A Greco, G Valenza, EP Scilingo, Valence-dependent changes in Visual Arousing Elicitation: an Exploratory Study in EEG Gamma Oscillations, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October, 7591741, pp. 4555-4558.
 170. A Greco, A Lanata', G Valenza, F Di Francesco, EP Scilingo, Gender-Specific Automatic Valence Recognition of Affective Olfactory Stimulation through the Analysis of the Electrodermal Activity, Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2016-October, 7590724, pp. 399-402.
 171. G. Valenza, A Greco, C. Gentili, A. Lanata, N. Toschi, R. Barbieri, L. Sebastiani, D. Menicucci, A. Gemignani, E.P. Scilingo, "Maximal Information Coefficient to Estimate Brain-Heart Dynamics during Visual Emotional Elicitation". Proceedings of the International Conference of the European Study Group on Cardiovascular Oscillations (ESGCO), Lancaser (UK), 2016.
 172. G. Valenza, A. Greco, A. Lanata, C. Gentili, D. Menicucci, L. Sebastiani, A. Gemignani, and EP Scilingo, "Brain Dynamics During Emotion Elicitation in Healthy Subjects: an EEG Study", Proceedings of the AEIT International Annual Conference, Naples (Italy), 2015.
 173. G. Valenza, A. Greco, M. Nardelli, M. Bianchi, A. Lanata, S. Rossi, E.P. Scilingo, "Electroencephalographic Spectral Correlates of Caress-like Affective Haptic Stimuli", Engineering in Medicine and Biology Society (EMBC), 37th Annual International Conference of the IEEE, Milan (Italy), 2015.
 174. Guidi, A., Schoentgen, J., Bertschy, G., Gentili, C., Landini, L., Scilingo, E.P., Vanello, N., "Voice quality in patients suffering from bipolar disease" (2015) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, 2015-November, pp. 6106-6109.
 175. Battaglia, E., Bianchi, M., D'Angelo, M.L., D'Imperio, M., Cannella, F., Scilingo, E.P., Bicchi, A., "A Finite element model of tactile flow for softness perception", (2015) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, 2015-November, pp. 2430-2433.
 176. M. Nardelli, G. Valenza, A. Greco, A. Lanata, E.P. Scilingo, "Arousal Recognition System based on Heartbeat Dynamics During Auditory Elicitation", Engineering in Medicine and Biology Society (EMBC), 37th Annual International Conference of the IEEE, Milan (Italy), 2015.
 177. M. Nardelli, G. Valenza, M. Bianchi, A. Greco, A. Lanata, A. Bicchi, E.P. Scilingo, "Gender-Specific Velocity Recognition of Caress-like stimuli through Nonlinear Analysis of Heart Rate Variability", Engineering in Medicine and Biology Society (EMBC), 37th Annual International Conference of the IEEE, Milan (Italy), 2015.
 178. A. Greco, G. Valenza, M. Nardelli, M. Bianchi, A. Lanata, E.P. Scilingo, "Electrodermal Activity Analysis during Affective Haptic Elicitation", Engineering in Medicine and Biology Society (EMBC), 37th Annual International Conference of the IEEE, Milan (Italy), 2015.
 179. A. Lanata, A. Greco, G. Valenza, E.P. Scilingo, "On the Tridimensional Estimation of the Gaze Point by a Stereoscopic Wearable Eye Tracker", Engineering in Medicine and Biology Society (EMBC), 37th Annual International Conference of the IEEE, Milan (Italy), 2015.
 180. A. Lanata, A. Guidi, P. Baragli, R. Paradiso, G. Valenza, E.P. Scilingo, "Removing Movement Artifacts from Equine ECG Recordings Acquired with Textile Electrodes", Engineering in Medicine and Biology Society (EMBC), 37th Annual International Conference of the IEEE, Milan (Italy), 2015.
 181. G Valenza, M. Nardelli, G. Bertschy, C. Gentili, A. Lanata, EP Scilingo, "Predicting Mood Changes in Bipolar Disorder through Heartbeat Nonlinear Dynamics: a Preliminary Study", Computing in Cardiology, Nice (France), 2015.
 182. G Valenza, F. Faita, L. Pratali, N. Vanello, A. Lanata, R. Barbieri, EP Scilingo, "Changes in Instantaneous Complex Dynamics during Exercise in Chronic Mountain Sickness", Computing in Cardiology, Nice (France), 2015.
 183. G Valenza, L. Citi, EP Scilingo and R Barbieri, "Assessment of Dynamic Autonomic Changes with Posture using Instantaneous Entropy Measures", Computers in Cardiology, Cambridge (MA, USA), vol. 41, pp. 489-492, 2014. (Winner of a Mortara Fellowship).
 184. DM Gonzalez-Otero, RG Garcia, G Valenza, LM Reyes, and R Barbieri, "Point Process Heartbeat Dynamics Assessment of Neurocardiogenic Syncope in Children", Computers in Cardiology, Cambridge (MA, USA), vol. 41, pp. 77-80, 2014.
 185. R Barbieri, G Valenza, L Citi, M Guerrisi, S Orsolini, C Tessa, S Diciotti and N Toschi, "Lower Instantaneous Entropy of Heartbeat Dynamics Characterizes Cognitive Impairment in Parkinson's Disease", Computers in Cardiology, Cambridge (MA, USA), vol. 41, pp. 81-84, 2014.
 186. G. Valenza, L. Citi, E.P. Scilingo, R. Barbieri, "Tracking Instantaneous Entropy in Heartbeat Dynamics through Inhomogeneous Point-Process Nonlinear Models", Engineering in Medicine and Biology Society (EMBC), 36th Annual International Conference of the IEEE, Chicago (USA), 2014.
 187. G. Valenza, M. Nardelli, G. Bertschy, A. Lanata, R. Barbieri, E.P. Scilingo, "Maximal-Radius Multiscale Entropy of Cardiovascular Variability: A Promising Biomarker of Pathological Mood States in Bipolar Disorders", Engineering in Medicine and Biology Society (EMBC), 36th Annual International Conference of the IEEE, Chicago (USA), 2014 (Invited).
 188. G. Valenza, N. Vanello, M. Milanese, E.P. Scilingo, L. Landini, "Decoding Underlying Brain Activities in Time and Frequency Domains through Complex Independent Component Analysis of EEG Signals", Engineering in Medicine and Biology Society (EMBC), 36th Annual International Conference of the IEEE, Chicago (USA), 2014.
 189. A. Greco, A. Lanata, G. Valenza, E.P. Scilingo, L. Citi, "Electrodermal Activity Processing: a Convex Optimization Approach", Engineering in Medicine and Biology Society (EMBC), 36th Annual International Conference of the IEEE, Chicago (USA), 2014.
 190. M. Nardelli, G. Valenza, C. Gentili, A. Lanata, EP. Scilingo, "Temporal Trends of Neuro-Autonomic Complexity During Severe Episodes of Bipolar Disorders", Engineering in Medicine and Biology Society (EMBC), 36th Annual International Conference of the IEEE, Chicago (USA), 2014.

191. G. Valenza, L. Citi, E.P. Scilingo, and R. Barbieri. "Defining an Instantaneous Complexity Measure for Heartbeat Dynamics: the Inhomogeneous Point-process Entropy", Proceedings of the International Conference of the European Study Group on Cardiovascular Oscillations, Trento (Italy), 2014.
192. G. Valenza, M. Nardelli, G. Bertschy, A. Lanata, and E.P. Scilingo, "Complexity Modulation in Heart Rate Variability during Pathological Mental States of Bipolar Disorders", Proceedings of the International Conference of the European Study Group on Cardiovascular Oscillations, Trento (Italy), 2014.
193. M. Nardelli, G. Valenza, I.A. Cristea, C. Gentili, C. Cotet, D. David, A. Lanata, and E.P. Scilingo, "Characterization of Behavioral Activation in Non-Pathological Subjects through Heart Rate Variability Monovariate and Multivariate Multiscale Entropy Analysis", Proceedings of the International Conference of the European Study Group on Cardiovascular Oscillations, Trento (Italy), 2014.
194. A. Lanata, A. Greco, G. Valenza, E.P. Scilingo. "A Pattern Recognition Approach based on Electrodermal Response for Pathological Mood Identification in Bipolar Disorders", 39th International Conference on Acoustics, Speech and Signal Processing (ICASSP), Florence (Italy), May 4-9, 2014.
195. M. Bianchi, G. Valenza, A. Serio, A. Lanatà, A. Greco, M. Nardelli, E.P. Scilingo, A. Bicchi, "Design and Preliminary Affective Characterization of a Novel Fabric-based Tactile Display", IEEE Haptics Symposium, Houston, Texas (USA), 2014.
196. G. Valenza, L. Citi, A. Lanatà, E.P. Scilingo, R. Barbieri, "A Nonlinear Heartbeat Dynamics Model Approach for Personalized Emotion Recognition", Engineering in Medicine and Biology Society (EMBC), 35th Annual International Conference of the IEEE, Osaka (Japan), p. 2579-2582, 2013, IEEE.
197. G. Valenza, L. Tedesco, A. Lanatà, D. De Rossi, E.P. Scilingo, "Novel Spiking Neuron-Astrocyte Networks Based on Nonlinear Transistor-Like Models of Tripartite Synapses", Engineering in Medicine and Biology Society (EMBC), 35th Annual International Conference of the IEEE, Osaka (Japan), p. 6559-6562, 2013, IEEE.
198. A. Greco, M.C. Carboncini, A. Virgillito, A. Lanatà, G. Valenza, E.P. Scilingo, "Quantitative EEG Analysis in Minimally Conscious State Patients During Postural Changes", Engineering in Medicine and Biology Society (EMBC), 35th Annual International Conference of the IEEE, p. 6313-6316, 2013.
199. G. Valenza, L. Citi, E.P. Scilingo, R. Barbieri, "Instantaneous Bispectral Characterization of the Autonomic Nervous System through a Point-Process Nonlinear Model", World Congress on Medical Physics and Biomedical Engineering, Beijing, China, May 21-31, 2012.
200. G. Valenza, L. Citi, E.P. Scilingo, R. Barbieri, "Using Laguerre expansion within point-process models of heartbeat dynamics: a comparative study", proceeding of the international IEEE Engineering in Medicine and Biology Conference, San Diego (CA), USA, 2012.
201. A. Greco, A. Lanatà, G. Valenza, G. Rota, N. Vanello, E.P. Scilingo, "On the deconvolution analysis of the electrodermal response in bipolar patients", Proceedings of the International IEEE Engineering in Medicine and Biology Conference, San Diego (CA), USA, 2012.
202. N. Vanello, A. Guidi, C. Gentili, S. Werner, G. Bertschy, G. Valenza, A. Lanatà, E.P. Scilingo, "Speech analysis for mood state characterization in bipolar patients", Proceedings of the International IEEE Engineering in Medicine and Biology Conference, San Diego (CA), USA, 2012.
203. G. Valenza, L. Citi, C. Gentili, A. Lanatà, M. Mauri, E.P. Scilingo, R. Barbieri, "A point-process nonlinear model approach for autonomic assessment of depressive states in bipolar patients", Proceeding of the 7th International workshop on biosignal interpretation, Como, Italy, 2012.
204. G. Valenza, M.C. Carboncini, A. Virgillito, I. Creatini, L. Bonfiglio, B. Rossi, A. Lanatà, E.P. Scilingo, "EEG complexity drug-induced changes in disorders of consciousness: A preliminary report", Annual International Conference of the IEEE Engineering in Medicine and Biology Society EMBC'11, pp 3724-3727, 2011.
205. A. Lanatà, A. Armato, G. Valenza, E.P. Scilingo, "Eye tracking and pupil size variation as response to affective stimuli: A preliminary study", 5th International Conference on Pervasive Computing Technologies for Healthcare, pp 78-84, 2011.
206. D. De Rossi, F. Carpi, N. Carbonaro, A. Tognetti, E.P. Scilingo, "Electroactive polymer patches for wearable haptic interfaces", Annual International Conference of the IEEE Engineering in Medicine and Biology Society EMBC'11, pp 8369-8372, 2011.
207. M. Bianchi, G. Grioli, E.P. Scilingo, A. Bicchi, M. Santello, "Validation of a Virtual Reality Environment to Study Anticipatory Modulation of Digit Forces and Position", Eurohaptics 2010, vol. 6192, pp 136-143, Amsterdam, 2010.
208. G. Valenza, A. Lanatà E.P. Scilingo, D. De Rossi, "Towards a smart glove: Arousal recognition based on textile Electrodermal Response", Annual International Conference of the IEEE Engineering in Medicine and Biology Society EMBC'10, pp 3598-3601, 2010.
209. N. Vanello, D. Bonino, E. Ricciardi, M. Tesconi, E.P. Scilingo, V. Hartwig, A. Tognetti, G. Zupone, F. Cutolo, G. Giovannetti, P. Pietrini, D. De Rossi, L. Landini, "Neural correlates of human-robot handshaking", 19th IEEE International Symposium in Robot and Human Interactive Communication, pp 555-561, Viareggio, 2010.
210. M. Bianchi, A. Serio, E.P. Scilingo, A. Bicchi, "A new fabric based softness display, Symposium on Haptic Interfaces for Virtual Environments and Teleoperator Systems", pp 108-112, Waltham, Massachusetts, USA, 2010.
211. A. Lanatà, G. Valenza, E.P. Scilingo, "The contribution of the phase spectrum in automatic multiple cardiac arrhythmias recognition in wearable systems", 3rd International Symposium on Applied Sciences in Biomedical and Communication Technologies (ISABEL), pp 1-5, 2010.
212. R. Paradiso, A.M. Bianchi, K. Lau, E.P. Scilingo, "PSYCHE: Personalised monitoring systems for care in mental health", Annual International Conference of the IEEE Engineering in Medicine and Biology Society, pp 3602-3605, 2010.
213. A. Armato, E. Nardini, A. Lanatà, G. Valenza, C. Mancuso, E.P. Scilingo, D. De Rossi, "An FPGA Based Arrhythmia Recognition System for Wearable Applications", International Conference on Intelligent Systems Design and Applications, pp 660-664, 2009.
214. M. Bianchi, A. Serio, E.P. Scilingo, A. Bicchi, "Rendering softness: a new fabric yielding display", Workshop for young researchers on human-friendly robotics Symposium, Sestri Levante (GE), Italy, 2009.
215. D. De Rossi, F. Carpi, F. Lorussi, E.P. Scilingo, A. Tognetti, "Wearable Kinesthetic Systems and Emerging Technologies in Actuation for Upperlimb Neurorehabilitation", IEEE EMBC 2009, Minneapolis, USA, 2009.

216. D. Zito, D. Pepe, M. Mincica, F. Zito, D. De Rossi, A. Lanatà, E.P. Scilingo, A. Tognetti, “Wearable System-on-a-Chip UWB Radar for Contact-Less Cardiopulmonary Monitoring: Present Status”, IEEE International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2008, Vancouver (Canada), 2008.
217. G. Valenza, A. Lanatà, M. Ferro, E.P. Scilingo, “Real-time discrimination of multiple cardiac arrhythmias for wearable systems based on neural networks”, Computers in Cardiology, pp 1053-1056, 2008.
218. E.P. Scilingo, A. Lanatà, D. Zito, D. Pepe, M. Mincica, F. Zito, D. De Rossi, “Wearable monitoring of cardiopulmonary activity through radiant sensing”, IEEE International Workshop on Wearable Micro and Nanosystems for Personalised Health (pHealth) Valencia (Spain), 2008.
219. D. De Rossi, A. Lanatà, E.P. Scilingo, D. Zito, D. Pepe, B. Neri, “An ultra wide bandwidth wearable system for cardiopulmonary monitoring”, IEEE International Conference on Personalised Healthcare (pHealth) 2007, Porto Carras (GR), 2007.
220. N. Vanello, V. Hartwig, M. Tesconi, G. Zupone, N. Sgambelluri, A. Tognetti, E. Ricciardi, E.P. Scilingo, A. Bicchi, P. Pietrini, D. De Rossi, L. Landini, “An MRI Compatibility Study of a Fabric Sensing Glove for Sensory-Motor Brain Activity Exploration”, The 10th annual International Workshop on Presence, pp 79-83, Barcelona, 2007.
221. M. Tesconi, A. Tognetti, E.P. Scilingo, G. Zupone, N. Carbonaro, E. Castellini, M. Marella, D. De Rossi, “Wearable sensorized system for analyzing the lower limb movement during rowing activity”, IEEE International Symposium on Industrial Electronics, Vigo, Spagna, 2007.
222. N. Sgambelluri, G. Valenza, M. Ferro, A. Bicchi, E.P. Scilingo, D. De Rossi, “An Artificial Neural Network approach for Haptic Discrimination in Minimally Invasive Surgery”, Proc. 16th IEEE Int. Symp., 2007.
223. N. Sgambelluri, G. Tonietti, A. Bicchi, E.P. Scilingo, “Integrating Two Haptic devices for Performance Enhancement”, World Haptics Conference 2007, pp. 139-144, 2007.
224. D. Zito, D. Pepe, B. Neri, D. De Rossi, A. Lanatà, A. Tognetti, E.P. Scilingo, “Wearable System-on-a-Chip UWB Radar for Health Care and its Application to the Safety Improvement of Emergency Operators”, International Conference of the IEEE Engineering in Medicine and Biology Society, pp 2651-2654, Lyon (FR), 2007.
225. A. Lanatà, E.P. Scilingo, R. Francesconi, G. Varone, D. De Rossi, “New ultrasound-based wearable system for cardiac monitoring”, IEEE Sensors 2006, Daegu- Korea, 2006.
226. V. Hartwig, C. Cappelli, N. Vanello, E. Ricciardi, E.P. Scilingo, G. Giovannetti, M. F. Santarelli, V. Positano, P. Pietrini, L. Landini, A. Bicchi, “A Compatible Electrocutaneous Display for functional Magnetic Resonance Imaging application”, 28th IEEE EMBS Annual International Conference, pp 1021-1024, vol. 1, New York, 2006.
227. R. Gassert, N. Vanello, D. Chapuis, V. Hartwig, E. Scilingo, A. Bicchi, L. Landini, E. Burdet, H. Bleuler, “Active Mechatronic Interface for Haptic Perception Studies with Functional Magnetic Resonance Imaging: Compatibility and Design Criteria”, ICRA06, IEEE International Conference on Robotics and Automation, vol. 1, pp 3832-3837, Orlando, 2006.
228. A. Lanatà, E.P. Scilingo, R. Francesconi, and D. De Rossi, “Bi-modal Transducer-based Wearable System for Cardiac Monitoring”, Fourth IASTED International Conference on Biomedical Engineering, pp 92-97, Innsbruck, Austria, 2006.
229. N. Sgambelluri, R. Rizzo, E.P. Scilingo, M. Raugi, and A. Bicchi, “Free Hand Haptic Interfaces Based on Magnetorheological Fluids”, 14th Symp. on Haptic Interfaces for Virtual Environment and Teleoperator Systems, vol. 1, pp. 367-371, USA, 2006.
230. A. Lanatà, E.P. Scilingo, R. Francesconi, D. De Rossi, “Performance analysis and validation of a bi-modal ultrasound transducer”, IEEE EMBS 2006, pp 1858-1861, New York, 2006.
231. M. Tesconi, E.P. Scilingo, P. Barba, D. De Rossi, “Wearable kinesthetic system for joint knee flexion-extension monitoring in gait analysis”, IEEE EMBS 2006, pp 1497-1500, New York, 2006.
232. E.P. Scilingo, E. Ricciardi, P. Pietrini, A. Bicchi, “Optic and tactile flow: does a supramodal response exist?”, International multisensory research forum, 6th Annual meeting, Rovereto, Italy, 2005.
233. A. Bicchi, D. Dente, E.P. Scilingo, and N. Sgambelluri, “Perceptual Bias in Tactile Flow”, In Proc. First World Haptics Conference, pp 17-20, In Proc. First World Haptics Conference, 2005.
234. D. Dente, E.P. Scilingo, N. Sgambelluri, and A. Bicchi, “Does Active Exploration Suppress Tactile Flow Perception?”, In Proc. First World Haptics Conference, pp. 660-661, 2005
235. N. Sgambelluri, R. Rizzo, E.P. Scilingo, M. Raugi, and A. Bicchi, “Analysis and Design of a New Haptic Box Display Based on Magneto-Rheological Fluids”, In Proc. Int. Conf. Eurohaptics, pp 442-445, Munich, Germany, 2004.
236. E. Ricciardi, N. Vanello, D. Dente, N. Sgambelluri, E.P. Scilingo, C. Gentili, L. Sani, V. Positano, F.M. Santarelli, M. Guazzelli, J.V. Haxby, L. Landini, A. Bicchi, and P. Pietrini, “Perception of visual and tactile flow activates common cortical areas in the human brain”, In Proceedings of the EuroHaptics, pp 290-292, Universitat Munchen, Germany, 2004.
237. D. De Rossi, F. Lorusi, E.P. Scilingo, F. Carpi, M. Tesconi, A. Tognetti, P. Orsini, “An upper limb kinesthetic-like system for tele-rehabilitation”, Medicon and Health Telematics, 2004.
238. D. Dente, A. Pisani, E.P. Scilingo, and A. Bicchi, “Integration of Tactile Flow from Multi-Finger and Multi-Dimensional Information”, EuroHaptics 2004, pp 282-289, Munich, Germany, 2004.
239. E. Ricciardi, N. Vanello, D. Dente, N. Sgambelluri, E.P. Scilingo, C. Gentili, L. Sani, V. Positano, F.M. Santarelli, M. Guazzelli, J.V. Haxby, L. Landini, A. Bicchi, P. Pietrini, “Neural correlates of optic and tactile flow in sighted subjects”, Euro Haptics 2004, pp. 290-292, Munich, Germany, 2004.
240. S. Coli, R. Paradiso, N. Taccini, E.P. Scilingo, G. Loriga, D. De Rossi, A. Gemignani, B. Ghelarducci, L. Bourdon, A. Ditmar, T. Vavouras, B. Gros, J. Luprano, M. Jaenecke, C. Coucke, G. Delhomme, D. Cianflone, “Development of a Wearable System Based on Smart Textiles and GPRS Transmission for Remote Multiparametric Monitoring of Cardiac Patients: Preliminary Results of the WEALTHY Project “. The 5th International Heart Health Conference, Positioning Technology to Serve Global Heart Health Milan, Italy, June 13-16, 2004.
241. N. Vanello, E. Ricciardi, D. Dente, N. Sgambelluri, E.P. Scilingo, C. Gentili, L. Sani, V. Positano, F. M. Santarelli, M. Guazzelli, J. V. Haxby, L. Landini, A. Bicchi, P. Pietrini, “Perception of optic and tactile flow both activate V5/MT cortical complex in the human brain”, 10th Annual Meeting of the Organization for Human Brain Mapping, vol. 22, supplement 1, Budapest, Hungary, June 13-17, 2004.

242. N. Sgambelluri, R. Rizzo, E.P. Scilingo, M. Raugi, and A. Bicchi, "Analysis and Design of a New Haptic Box Display Based on Magneto-Rheological Fluids", Proceedings of EuroHaptics 2004, pp. 442-445, June 5-7, Munich, Germany, 2004.
243. E. Ricciardi, N. Vanello, D. Dente, N. Sgambelluri, E.P. Scilingo, C. Gentili, L. Sani, V. Positano, F. M. Santarelli1, M. Guazzelli, J. V. Haxby, L. Landini, A. Bicchi, P. Pietrini, "Perception of visual and tactile flow activates common cortical areas in the human brain", Proceedings of EuroHaptics 2004, pp. 290-292, Munich Germany, June 5-7, 2004.
244. D. Dente, A. Pisani, E.P. Scilingo, A. Bicchi, "Integration of Tactile Flow from Multi-Finger and Multi-Dimensional Information", Proceedings of Eurohaptics 2004, pp. 282-290, June 5-7, Munich Germany, 2004.
245. A. M. Bianchi, R. Paradiso, M. O. Mendez, G. Loriga, E.P. Scilingo, and S. Cerutti, "Analysis Of Heart Rate And Respiration Variability Signals Obtained Through A Wearable System", Mediterranean Conference on Medical and Biological Engineering, "Health in the Information Society", Island of Ischia, Naples, Italy, July 31-August 5, 2004.
246. D. De Rossi, F. Lorussi, E.P. Scilingo, F. Carpi, M. Tesconi, A. Tognetti and P. Orsini, "An Upper Limb Kinesthetic-Like System For Tele-Rehabilitation", Mediterranean Conference on Medical and Biological Engineering, "Health in the Information Society", Island of Ischia, Naples, Italy, July 31-August 5, 2004.
247. E.P. Scilingo, N. Sgambelluri, D. De Rossi, A. Bicchi, "Haptic displays based on magnetorheological fluids: design, realization and psychophysical validation", 11th Symposium on Haptic Interfaces For Virtual Environment And Teleoperator Systems, In Cooperation with IEEE Virtual Reality 2003, pp10 – 15, Los Angeles, USA, March 2003.
248. E.P. Scilingo, N. Sgambelluri, D. De Rossi, A. Bicchi, "Towards a Haptic Black Box for free-hand softness and shape exploration", IEEE International Conference on Robotics and Automation, vol. 2, pp. 2412 – 2417, Taipei, Taiwan, 14-19 Sept. 2003.
249. F. Lorussi, E.P. Scilingo, M. Tesconi, A. Tognetti and D. De Rossi, "Wearable Sensing Garment For Posture Detection, Rehabilitation And Tele-Medicine", 4th International IEEE EMBS Special Topic Conference on Information Technology Applications in Biomedicine, pp. 287 – 290, Birmingham, UK, April 24-26, 2003.
250. A. Bicchi, D. Dente, E.P. Scilingo, "Haptic Illusions induced by Tactile Flow", Eurohaptics 2003, pp. 2412-2417, Dublin, Ireland, July 6th -9th 2003.
251. A. Tognetti, F. Carpi, F. Lorussi, A. Mazzoldi, P. Orsini, E.P. Scilingo, M. Tesconi, D. De Rossi, "Wearable Sensory-Motor Orthoses for Tele-Rehabilitation", 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, vol. 4, pp.3724 – 3727, Cancun, China, 17-21 Sept. 2003.
252. R. Paradiso, A. Gemignani, E.P. Scilingo, D. De Rossi, "Knitted Bioclothes for Cardiopulmonary Monitoring", 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, vol. 4, pp. 3720 – 3723, Cancun, China, 17-21 Sept. 2003.
253. R. Paradiso, M. Ghignoli, M. Pacelli, G. Anerdi, F. Lorussi, E.P. Scilingo, D. De Rossi, P. Orsini, "A wearable motion capture system for multimedia applications", Avantex Symposium - International Forum for Textiles and Technology in the Future, Frankfurt, Germany, 13-15 May, 2002.
254. D. De Rossi, F. Carpi, F. Lorussi, A. Mazzoldi, E.P. Scilingo, A. Tognetti, "Electroactive Fabrics for Distributed, Conformable and Interactive Systems", The first IEEE International Conference on Sensors, vol. 2, pp.1608 – 1613, Orlando, Florida, USA, 12-14 June 2002.
255. E.P. Scilingo, F. Lorussi, D. De Rossi, R. Paradiso, M. Ghignoli, M. Pacelli, G. Anerdi, A. Gemignani, B. Ghelarducci, "A Sensing Shirt for Monitoring Body Kinematic and Vital Signs", Symposium on Telemedicine In Care Delivery, Technology and Application, June 12-16, 2002, Pisa, Italy, pages: 57-67.
256. A. Bicchi, E.P. Scilingo, N. Sgambelluri, D. De Rossi, "Haptic Interfaces based on magnetorheological fluids", Proceedings of 2th International Conference Eurohaptics 2002, pp. 6-11, Edinburgh, UK, July 8-10, 2002.
257. D. De Rossi, F. Lorussi, A. Mazzoldi, Walter Rocchia, E.P. Scilingo: "Strain-amplified electroactive polymer actuator for haptic interfaces", Proceedings of SPIE, Vol. 4329, Smart Structures and Materials 2001: Electroactive Polymer Actuators and Devices, Yoseph Bar-Cohen, Editor, pp.43-53, Newport Beach, USA, July 2001.
258. M. Pacelli, R. Paradiso, G. Anerdi, S. Ceccarini, M. Ghignoli, F. Lorussi, E.P. Scilingo, D. De Rossi, A. Gemignani and B. Ghelarducci, "Sensing Threads and Fabrics for Monitoring Body Kinematic and Vital Signs", Fibres and Textiles for the Future, Marja Isosomppi e Riitta Salonen, pp. 55-63, 2001.
259. A. Ahluwalia, D. De Rossi, F. Lorussi, A. Mazzoldi, P. Orsini, E.P. Scilingo, "Piezoresistive fabrics for monitoring body kinematics and gesture", First International Symposium on Measurement, Analysis and Modeling of Human Functions - ISHF2001, pp. 395-399, Sapporo, Japan, September 2001.
260. D. De Rossi, F. Lorussi, A. Mazzoldi, E.P. Scilingo, P. Orsini, "Active dressware :wearable proprioceptive system based on electroactive polymers", 5th International Symposium on Wearable Computers, pp. 161 – 162, ISWC2001, Zuerich, Ch, 8-9 Oct. 2001.
261. G. Ambrosi, A. Bicchi, D. De Rossi, E.P. Scilingo: "The role of contact area spread rate in haptic discrimination of softness", IEEE International Conference on Robotics & Automation, vol. 1, pp. 305 – 310, Detroit, Michigan, 10-15 May 1999.
262. A. Bicchi, D. De Rossi, E.P. Scilingo: "Psychophysical evaluation of simplified haptic perception media", IEEE, International Workshop on Robot and Human Interaction, pp.309 – 314, Pisa, Italy, 27-29 Sept. 1999.
263. E.P. Scilingo, A. Bicchi, D. De Rossi, P. Iacconi: "Haptic display able to replicate the rheological behaviour of surgical tissues" 20th International Conference IEEE/EMBS, , vol. 20, no.4, pp.1738 – 1741, Hong Kong, CI. 29 Oct.-1 Nov. 1998.
264. E.P. Scilingo, D. De Rossi, A. Bicchi, P. Iacconi: "Sensors and devices to enhance the performances of a minimally invasive surgery tool for replicating surgeon's haptic perception of manipulated tissues" 19th International Conference IEEE/EMBS, vol. 3, pp. 961 – 964, Chicago, IL, USA, 30 Oct.-2 Nov. 1997.
265. E.P. Scilingo, D. De Rossi, A. Bicchi, P. Iacconi: "Haptic display for replication of rheological behaviour of surgical tissues: modelling, control and experiments". In Proc. Annual ASME Symp. on Haptic Interfaces for Virtual Environments and Teleoperator Systems, Dallas, 1997.
266. A. Bicchi, G. Canepa, D. De Rossi, P. Iacconi, E.P. Scilingo: "A sensorized Minimally Invasive Surgery Tool for detecting Tissutal Elastic Properties", Proceedings of the 1996 IEEE International Conference on Robotics and Automation, vol. 1, 22-28, pp. 884 – 888, Minneapolis, Minnesota, April 1996.

Short proceedings

267. A. Lanatà, C. Mancuso, G. Valenza, E.P. Scilingo, “Autonomic nervous system activity evaluation using heart rate variability and pulse transit time by a wearable system”, 7th International Congress on Wearable Micro and Nano Technologies for Personalized Health, 2010.
268. A. Lanatà, G. Piccolo, G. Valenza, E.P. Scilingo, “Cardiopulmonary monitoring system based on a single sensing device”, 7th International Congress on Wearable Micro and Nano Technologies for Personalized Health, 2010.
269. F. Di Francesco, P. Salvo, D. Costanzo, C. Ferrari, M.G. Trivella, E.P. Scilingo, D. De Rossi, “Measuring sweat rate by a wearable sensor”, 7th International Congress on Wearable Micro and Nano Technologies for Personalized Health, 2010.
270. N. Vanello, V. Hartwig, M. Tesconi, E. Ricciardi, G. Zupone, A. Tognetti, D. Bonino, E.P. Scilingo, F. Cutolo, G. Giovannetti, P. Pietrini, D. De Rossi, L. Landini, “A MR Compatible Sensing Glove for Brain Studies”, 16th Annual Meeting of the Organization for Human Brain Mapping, pp 1262-1262, Barcellona, 2010.
271. E.P. Scilingo, M. Bianchi, A. Serio, A. Bicchi, “A new softness display based on bi-elastic fabric”, World Haptics, pp 382-383, Salt Lake City, USA., March, 18-20, 2009.
272. T. Faetti, A. Lanatà, E. Nardini, E.P. Scilingo, D. De Rossi, “A comparative evaluation of different techniques for ambulatory monitoring of respiratory rate”, International Workshop on Wearable Micro and Nanosystems for Personalised Health (pHealth2008), Valencia, 2008
273. A. Musolino, A. Bicchi, M. Raugi, R. Rizzo, E.P. Scilingo, “A permanent magnets exciter for MRFs-based haptic interfaces”, CEFC 2008, pp 88-88, Atene, vol. unico, 2008.
274. N. Vanello, E. Ricciardi, D. Dente, N. Sgambelluri, E.P. Scilingo, C. Gentili, L. Sani, V. Positano, F.M. Santarelli, M. Guazzelli, J.V. Haxby, L. Landini, A. Bicchi, P. Pietrini, “Perception of optic and tactile flow both activate V5/MT cortical complex in the human brain”, 10th Annual Meeting of the Organization for Human Brain Mapping, Budapest, 2004.
275. N. Sgambelluri, E.P. Scilingo, A. Bicchi, “Interfacce Aptiche basate sui Fluidi Magnetoreologici”, Cira Poster Session 2003, Università degli Studi di Modena e Reggio Emilia, Facoltà di Ingegneria, Modena, Italy, September 10-12, 2003.
276. D. De Rossi, F. Lorussi, E.P. Scilingo, “Artificial kinesthetic systems for telerehabilitation” International Workshop in New generation of wearable systems for e-Health: towards a revolution of citizen’ health and life style management?, pp. 129-133, 12-14, December 2003.
277. A. Bicchi, E.P. Scilingo, “Tactile flow”, Workshop on Multimodal interactions in perception, Paris, April 15-16, 2002.
278. D. De Rossi, F. Carpi, F. Lorussi, A. Mazzoldi, E.P. Scilingo and A. Tognetti, “Electroactive Fibers and Fabrics for Distributed, Conformable and Interactive Systems”, Proceedings of the First European Workshop on Structural Health Monitoring, Cachan (Paris), France, July 10-12, 2002.
279. D. De Rossi, F. Lorussi, A. Mazzoldi, P. Orsini, E.P. Scilingo, “Active dressware: Wearable kinesthetic system”, International Interactive Textiles for the Warrior Conference, Boston, Massachusetts, USA, 9-11 July 2002.
280. D. De Rossi, F. Lorussi, A. Mazzoldi, R. Paradiso, E.P. Scilingo: “Haptic smart skins: from biomimetics reasoning to wearing technology” Fifth Workshop on Multifunctional Polymer and Smart Polymer Systems, Wollongong, Australia, January 2001.
281. A. Bicchi, E.P. Scilingo, “TACTILE FLOW, A psychophysical conjecture with applications”, Keynote Speech at EuroHaptics 2001, Birmingham, July 2001.
282. E.P. Scilingo, A. Bicchi, D. De Rossi, “Haptic devices for minimally invasive surgery”, In Proc. Int. Worksh. on Electroactive Polymers and Biosystems, pp. 194-198, Lucca, Italy, July 2001.
283. E.P. Scilingo, A. Bicchi, “Tactile flow: does it exist, is it useful and how?”, In Proc. Int. Worksh. on Electroactive Polymers and Biosystems, pp.142, Lucca, Italy, July 2001.
284. D. De Rossi, F. Lorussi, A. Mazzoldi, P. Orsini, E.P. Scilingo, “Active dressware: wearable haptics systems”, In Proc. Int. Worksh. on Electroactive Polymers and Biosystems, pp.155-188, Lucca, Italy, July 2001.
285. R. Paradiso, M. Pacelli, D. De Rossi, F. Lorussi, A. Mazzoldi, E.P. Scilingo, P. Orsini, “Wearable technology for multisensory expressive gesture applications”, 5th International Symposium on Wearable Computers - ISWC2001, Zurich, Ch, October 2001.
286. F. Carpi, F. Lorussi, A. Mazzoldi, G. Pioggia, E.P. Scilingo, “Electroactive polymer based skin and muscles for man machine interfaces”, *MRS Fall Meeting*, Boston, December, 2001.
287. D. De Rossi, F. Lorussi, A. Mazzoldi, P. Orsini, E.P. Scilingo: “Monitoring Body Kinematics and Gesture Through Sensing Fabrics”, 1st Annual International IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology, pp. 587 – 592, Lyon, France, 12-14 Oct. 2000.
288. E.P. Scilingo, A. Bicchi, D. De Rossi, A. Scotto: “A magnetorheological fluid as a haptic display to replicate perceived compliance of biological tissues”, 1st Annual International IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology, pp. 229 – 233, Lyon, France, 12-14, Oct. 2000.
289. E.P. Scilingo, D. De Rossi, A. Bicchi: “Tactile display able to replicate the rheological behaviour of tissues manipulated by a sensorized surgical tool”, XVIII International Conference on Medical and Biomedical Engineering, Nice, France, September, 1997.

Pisa, 09/03/2021

Enzo Pasquale Scilingo

