

Enzo Pasquale Scilingo's curriculum vitae

Academic and work history

- **2018 – to date** Full professor, University of Pisa, SSD ING/ING 06 since 1st May
- **2015-2017** Vice Director Centro di Ricerca “E. Piaggio” from November 2015 to January 2017.
- **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

- Member of the panel review of Academy of Finland’s Biomedical engineering, Helsinki, 2019.
- 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
- Chair of the bioengineering laboratory, Biolab, at the Dipartimento di Ingegneria dell’Informazione.
- 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 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 Geronservices, 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-UNIPI 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

- Member of the Editorial Board/Academic Editor of *Journal of Biomedical and Health Informatics* (ISSN: 2168-2194, IF 2016: 3,451).
- Member of the Editorial Board/Academic Editor of *Plos One* (ISSN: 1932-6203, IF 2016/2017: 2,806)
- Member of the Editorial Board/Academic Editor *Scientific Reports - Nature* (ISSN: 2045-2322, IF 2016/2017: 4,259)
- Member of the Editorial Board/Academic Editor of *Frontiers in Bioengineering and Biotechnology* (Electronic ISSN 2296-4185) and *Frontiers in Robotics and AI* (Electronic ISSN: 2296-9144) section *Bionics and Biomimetics*.
- Member of the Editorial Board/Academic Editor of *Frontiers in Neuroscience* (Electronic ISSN: 1662-453X, IF 2016/2017: 3,566) section *Neural technology*.

- Member of the Editorial Board/Academic Editor of *Electronics* (ISSN 2079-9292; CODEN: ELECGJ)
- Member of the Editorial Board/Academic Editor of *Complexity*, (Online ISSN: 1099-0526, IF 2016/2017: 4,621)
- Member of the Editorial Board/Academic Editor of *Electronics and Telecommunications Research Institute* (ETRI) Journal (p-ISSN 1225-6463, e-ISSN 2233-7326, IF 2016/2017: 1,116).

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

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	202	3557	33
Scholar	324	5271	40

International journals

1. 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.
2. 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.
3. 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.
4. 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.
5. 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} CO₂ in free breathing and breath-hold tasks using Maximal Information Coefficient (MIC)",

- (2018) Scientific Reports, 8 (1), art. no. 4492.
6. Marin-Morales, J., Higuera-Trujillo, J.L., Greco, A., Guiñeres, J., Llinas, 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.
 7. 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.
 8. 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.
 9. 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", (2018) Medical and Biological Engineering and Computing, pp. 1-12. Article in Press.
 10. 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.
 11. 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.
 12. Nardelli, M., Greco, A., Bianchi, M., Scilingo, E.P., Valenza, G., "Classifying Affective Haptic Stimuli through Gender-specific Heart Rate Variability Nonlinear Analysis", (2018) IEEE Transactions on Affective Computing, . Article in Press.
 13. Greco, A., Valenza, G., Scilingo, E.P., "Brain Dynamics during Arousal-dependent Pleasant/Ungainly Visual Elicitation: An Electroencephalographic Study on the Circumplex Model of Affect", (2018) IEEE Transactions on Affective Computing. Article in Press.
 14. Nardelli M., Lanata A., Bertschy G., Scilingo E.P., Valenza G., "Heartbeat Complexity Modulation in Bipolar Disorder during Daytime and Nighttime", Scientific ReportsOpen Access, Volume 7, Issue 1, 1 December 2017.
 15. 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.
 16. 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.
 17. 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.
 18. Gentili, C., Valenza, G., Nardelli, M., Lanatà, 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.
 19. 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.
 20. 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.
 21. 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" (2016) IEEE Transactions on Human-Machine Systems, in Press.
 22. 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.
 23. 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.
 24. 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.
 25. 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 (2067), pp. 1-18.
 26. 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.
 27. 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.
 28. 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.
 29. 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.
 30. 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.
 31. 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.
 32. 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.

33. Lanatà, A., Valenza, G., Greco, A., Gentili, C., Bartolozzi, R., Bucchi, F., Frendo, 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. Valenza, G., Citi, L., Gentili, C., Lanatà, 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.
39. Cristea, I.A., Valenza, G., Scilingo, E.P., Szentágóti Tátar, 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.
40. 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.
41. 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.
42. 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.
43. 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, .
44. 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.
45. 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" (2014) Biomedical Signal Processing and Control, In press.
46. 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.
47. 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.
48. 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.
49. 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.
50. 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.
51. Valenza, G., Lanatà, A., Scilingo, E.P., "Improving emotion recognition systems by embedding cardiorespiratory coupling" (2013) Physiological Measurement, 34 (4), pp. 449-464.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
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