

Enrico Maria Staderini

MD, PhD, biomedical engineer



Enrico Staderini is a professor at the Haute École d'Ingénierie et de Gestion de l'État de Vaud HEIG-VD Western Switzerland University of Applied Sciences HES-SO (Industrial Automation Institute) in Yverdon-les-Bains, Switzerland. His main research interests focus on neurophysiology instrumentation, sport technologies, cognitive science, UWB medical radars, rehabilitation engineering, biomedical electronics and assistive devices for the elderly and the handicapped people. He published more than fifty peer-reviewed scientific papers and directed important research projects.

Enrico holds a MD degree from the University of Rome "La Sapienza" (1981) in Italy from which he also got a specialization degree (postgrad) in biomedical engineering (1982) and a PhD in cardiovascular physiopathology (1988). Then he specialized (postgrad) in assistive devices engineering for the elderly and disabled people (2003) from the University of Trieste (Italy). He also qualified as EUCIP – European Certification for Informatics Professionals (a European qualification from the CEPIS Council of European Professional Informatics Societies).

A registered physician in Italy (1982-), Norway (2006-) and Switzerland (2011-), after a combined career in the medical practice, the informatics and the biomedical devices industry, Enrico served as invited professor in India, USA, Brazil, Norway, IAEA-UNESCO ICTP and as researcher in Italy teaching medical physics and biomedical engineering. He is still active at international level with very important and tight relations with Indian companies and universities, besides others.

Enrico Staderini is the President of the Swiss based Healthy World Association HWA and member of the International Electrotechnical Commission (IEC), the IEEE, the Swiss Society for Biomedical Engineering (SGBT), the Bern based BioMedical Engineering Club (BMEClub) and he was member of the once Swiss Electromagnetics Research & Engineering Center (SEREC). A member of the Rotary District 2080 Club "Leonardo da Vinci" in Rome, Italy, he also sits in various International and National Experts Panels and Doctorate boards.

LinkedIn members please visit: <http://ch.linkedin.com/in/stadero>

Latest updated e-version of this file: <http://www.staderini.eu/communication/StaderoCV.pdf>

Professional activities

2006- **Professor of biomedical technologies**

Department of Industrial Technologies, Industrial Automation Institute - Haute École d'Ingénierie et de Gestion du Canton de Vaud (Western Switzerland University of Applied Sciences HES-SO) teaching:

- systems theory
- signal theory
- control theory
- analog electronics
- biomedical systems electronics

MOOC (Massive Online Open Courses) author

Jawaharlal Nehru Technology University Kakinada JNTUK (Andhra Pradesh), India teaching:

- analog electronics for biomedical systems

2011- **Invited expert for telemedicine regulatory issues**

International Telecommunication Union – Study Group 17 – Geneva – Switzerland

2011- **Visiting Professor**

School of Medical Sciences and Research – Sport Medicine and Technology
Jawaharlal Nehru Technology University Kakinada JNTUK (Andhra Pradesh) – India

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- 2005-2006 **Researcher and medical advisor (rådgiver)**
 NYTT Health Services Program (NYTT Helsetjenesteprogrammet), Norwegian Center for Telemedicine (Nasjonalt Senter for Telemedisin): a department of the North Norway Regional and University Hospital (Universitetssykehuset Nord-Norge) in Tromsø, Norway:
- telemedicine
 - networking of medical devices
 - teaching of telemedicine topics at M.Sc. level
-
- 1998-2006 **Researcher (assistant professor) in medical physics**
 Center for applied physics, "Tor Vergata" University of Rome, Italy
- teaching of applied physics
 - biomedical systems electronics
-
- 2000; 2001 **Visiting Professor**
 EMBRAPA Brazilian Center for Agricultural Research CNPDIA Instrumentação Agropecuária, São Carlos-SP, Brésil (Brazilian Center for Research and Development of Agricultural Instrumentation)
- ultra wideband radar for agricultural research
 - electrical impedance tomography imaging
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- 1996-2002 **Visiting Professor**
 ICTP International Centre for Theoretical Physics IAEA UNESCO, Trieste, Italy
- algorithms for image reconstruction from projections
 - image elaboration using mathematical morphology techniques
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- 2001 **Visiting Professor**
 Engineering School in São Carlos, SP, Brazil São Paulo University, CETEPE Center of Education Technologies for Engineering
- electrical impedance tomography imaging
 - image elaboration
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- 1999 **Visiting Professor**
 Biomedical Engineering Center of the Ohio State University, Columbus, Ohio, USA
- medical applications of ultra wide band radars
-
- 1992-1998 **Chief Technical and Scientific Officer, CTSO**
 IADA SISTEMI S.a.s. (LLP) Rome, Italy
- development of research devices in physiology and medicine
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- 1991-1994 **Chief Technical Officer, CTO**
 INFORMEZ Informatica per il Mezzogiorno S.p.A. Bari, Italy
- medical devices and medical informatics
 - instrumentation devices for agriculture and crops monitoring
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- 1987-1991 **Senior hardware systems designer**
 GEPIN Generale per l'Informatica S.p.A. Rome, Italy
- biomedical devices, medical imaging
 - hardware high speed devices for document management
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- 1982-1984 **Researcher and consultant**
 Biomedical Engineering Center. School of Engineering, "La Sapienza" University of Rome, Italy
- nuclear electronics
 - micro computed tomography systems
-
- 1982- **Physician in private practice**
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- 1980-1981 **Researcher**
 Physics Institute. School of Medicine, "La Sapienza" University of Rome, Italy
- chemical analysis techniques using electron spin resonance

Member of International and National Experts Panels

- 2015- **Member of the IEC International Electrotechnical Commission** (Geneva, Switzerland) **Technical Committee 25**
http://www.iec.ch/dyn/www/f?p=103:29:0:::FSP_ORG_ID,FSP_LANG_ID:1215,25
- 2015 **Member of the Expert Focus Group on Global Health** (Wien, Austria) **United Nations Committee on the Peaceful Uses of Outer Space** (UN-COPUOS) under the UN-COPUOS Space Technology for Socioeconomic Benefits (STSC) agenda item "Space Technology for socio-economic development in the context of the UN conference on Sustainable Development and the post-2015 development agenda". Invited by Eidgenössisches Departement für auswärtige Angelegenheiten EDA, Politische Direction PD, Abteilung Sektorielle Aussenpolitiken ASA (Federal Department of Foreign Affairs FDFA, Directorate of Political Affairs DP, Sectoral Foreign Policies Division SFPD/DPES/ASA), Switzerland: <http://www.eda.admin.ch>
- 2014-2015 **Member of the Expert Panel Round Table** (Bern, Switzerland) for the creation of the national strategy for the surveillance, prevention and fight against the **nosocomial infections (NOSO strategy)** to define measures in the domains of "Education", "Communication" and "Research and Development". Invited by Eidgenössisches Departement des Innern EDI, Bundesamt für Gesundheit BAG, Abteilung Übertragbare Krankheiten, (Federal Department of Home Affairs, Federal Office of Public Health, Communicable Diseases Division), Switzerland: <http://www.bag.admin.ch>
- 2008-2013 **Member of the International Expert Panel of the MELODY project financed by "The Research Council of Norway"**
 Dr. Ilanko Balasingham Professor, Head of Biomedical Sensor Networks; Interventional Center of the Rikshospitalet University Hospital, Sognvannsvei 20 Oslo N-0027 Norway: <http://www.melody-project.info>
- 2011-2015 **Member of the International Advisory Committee of the Kalasalingam University**
 Kalasalingam University, Anand Nagar, Krishnankoil - 626 126 Srivilliputtur (Via), Virudhunagar (Dt.) Tamil Nadu, India:
<http://www.kalasalingam.ac.in/admin1/iac.htm>

Academics

	<i>Institution</i>	<i>Position held-Activity-Award</i>
2016	Healthy World Association in collaboration with the Western Switzerland University of Applied Sciences HEIG-VD, Switzerland	General Chair and organizer of the Twin Congresses: HEALTHY WORLD CONGRESS 2016 (HWC-2016) and the INTERNATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY OF THERMALISM 2016 (SPAIG-2016) at the Y-PARC, Yverdon-les-Bains, Switzerland http://www.hwassociation.org/conf/HWC-2016/index.html http://www.hwassociation.org/conf/SPAIG-2016/index.html
2015	Jawaharlal Nehru Technology University Kakinada JNTUK (Andhra Pradesh) India	"Dr. Sarvepalli Radhakrishnan" Best Teacher Awardee 2015
2015	Jawaharlal Nehru Technology University Kakinada JNTUK (Andhra Pradesh) India	General Chair and co-organizer of the HEALTHY WORLD CONGRESS 2015 (HWC2015) in JNTUK http://www.hwc2015.org
2014	Western Switzerland University of Applied Sciences HEIG-VD, Switzerland in collaboration	General Chair and organizer of the INTERNATIONAL MEDICAL INFORMATICS AND TELEMEDICINE CONFERENCE 2014 (IMIT2014) at the Geneva University Hospital

	ration with the International Institute of telemedicine Milan, Italy	
2012-	Western Switzerland University of Applied Sciences HEIG-VD, Switzerland in collaboration with "Tor Vergata" University of Rome, Italy	Tutor and PhD commission member of three industrial engineering doctorate students working at the HEIG-VD for their doctorate applied research projects. One student got his PhD title in 2015. Two students to receive their PhD title planned in 2018 (both are working at HEIG-VD under a grant from an external company recently established at Y-Parc)
2013-	University of Oslo, Informatics Institute, Norway	PhD commission member and "main opponent of the board" for the PhD award examination of Dr. Øyvind Aardal defending a thesis on medical Ultra Wide Band Radars
2013-	Western Switzerland University of Applied Sciences HEIG-VD, Switzerland in collaboration with "Tor Vergata" University of Rome, Italy	Coordinator for the Swiss side of the specific collaboration agreement for the Doctorate School in Industrial Engineering of the "Tor Vergata" University
2011-	- Anna University, Chennai, Tamil Nadu, India - Annamalai University, Annamalai, Tamil Nadu, India - PSG College of Engineering, Coimbatore, Tamil Nadu, India	Reviewer of PhD thesis in industrial, electronic and medical engineering
2009-2010	Western Switzerland University of Applied Sciences HEIG-VD, Switzerland	Representing the biomedical engineering domain in the project « Summer University » in collaboration with Universities in India under the mandate of the General Direction of Higher Education of Canton and State of Vaud
2003-2005		Director (Deputy-Dean) of the course at M.Sc. Level in "Rehabilitation Sciences"
2004-2006	"Tor Vergata" University of Rome, Italy	Coordinator of the course e-learning in Assistive Technologies
2001-2006		Representing the School of Medicine in the university commission for assistance to disabled students
2000-today	-	Reviewer of scientific papers submitted to many professional and scientific journals.

Courses taught and lectures given in various institutions

<i>Institution</i>	<i>School</i>	<i>Course level</i>	<i>Domain</i>
Western Switzerland University of Applied Sciences HEIG-VD, Switzerland	School of Engineering	- courses HES - courses B.Sc. level - courses M.Sc. level Master of Science in	- signal theory - system theory - control theory - electronics engineering

		Engineering HESSO MSE	- electrical engineering - biomedical devices - biomedical electronics
PSG College of Technology, Coimbatore, India	School of Engineering	- talks and seminars M.Sc. level in biomedical engineering	- biomedical UWB radars - sensors and transducers
Tromsø University, Norway	School of Medicine	- talks and seminars M.Sc. level in telemedicine	- medical informatics - sensors and transducers
"Tor Vergata" University of Rome, Italy	School of Engineering	- courses B.Sc. level - courses M.Sc. level	- biomedical devices - biomedical electronics
	School of Medicine	- courses B.Sc. level - courses physiotherapy B.Sc. level	- medical physics - medical informatics - biomedical technologies
		- courses physiotherapy M.Sc. level	- medical physics - medical informatics - biomedical technologies - research methodology
		- courses post-grad level in cardiology	- electrical safety of biomedical devices - signal theory in cardiology
		- courses PhD level in « Advanced technologies in biology and medicine »	- medical physics - medical informatics - biomedical technologies
	e-learning School	- « course of advanced studies » in Assistive Technologies	- accessibility to the mobility of the person - accessibility to communication technologies
ICTP International Centre for Theoretical Physics IAEA UNESCO, Trieste, Italy	Summer School and College on Medical physics	- courses post-grad level in medical physics	- biomedical imaging - mathematical theory of reconstruction from projections (CT, SPECT, PET, NMR)

Recent research projects (as project's head)

	<i>Financing means</i>	<i>Total (CHF)</i>	<i>Title</i>
2014-	WINA S.r.l. (Company mandate)	~50.000 (forecasted)	WINAPAD: Assistive device for blind people
2009-	HES-SO ("Call-2009")	~700.000	CALIND: Indirect calorimeter
2009-	CTI-KTI	~180.000	PARKRAD: Ultra-wideband radar for vehicle parking monitoring
2008-2010	HES-SO (ISYS network)	~120.000	VTAS: Vertebral traction assessment system
2007-2007	External	~35.000	SYRINGE: Motorized syringe pump

2006-2007 HES-SO (ISYS network) ~140.000 **BIORAD**: Biomedical ultra-wideband radar for vital signs monitoring

Education

- 2002-2003 **Postgrad course in engineering of assistive devices (Assistive Technology)**
School of Engineering, University of Trieste (as per Italian Law D.P.R. 162/82 and 341/90)
Thesis: Economic impact of assistive devices for the elderly
-
- 1984-1988 **PhD in Cardiovascular Physiopathology**
School of Medicine, "La Sapienza" University of Rome
Thesis: Real-time hardware processor of cardiac ultrasonic images
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- 1981-1982 **Postgrad course in biomedical engineering**
School of Engineering, "La Sapienza" University of Rome (as per Italian Law D.P.R. 875/1974)
Thesis: Acquisition and treatment by Fourier transform of heart sounds and murmurs
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- 1975-1981 **MD cum laude**
School of Medicine, "La Sapienza" University of Rome.
Besides the courses of the medical study path, he also followed (according to the option of art. 6 of the university regulatory statute) many courses from the formal electronics engineering study path. This, officially recognized, engineering background entitled him to be admitted to the postgrad course in biomedical engineering.
Thesis: Electron Spin Resonance spectrometer for aqueous samples in clinical chemistry
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Professional certifications and registrations

- 2011 **Confédération Suisse, Attestation de Reconnaissance Département fédéral des professions médicales MEBEKO**
Recognition of medical diploma; GLN 7601000948465 Physician
(<http://www.medregom.admin.ch/FR>)
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- 2011 **HES-SO Attestation didactique**
Certificate of educational qualifications required for teaching in a University of Applied Sciences in accordance with the guidelines on educational qualifications of teaching staff of the HES-SO (guidelines released on October 30, 2007)
-
- 2003 **EUCIP**
European Certification for Informatics Professionals (core level)
-
- 2001 **Kingdom of Norway, Statens autorisasjonskontor for helsepersonell n. 8550379**, registration for the medical practice
(http://www.safh.no/hpr/index_sub.html)
-
- 1982 **Republic of Italy, Ordine dei Medici** Roma n. 31340, registration for the medical practice
(<http://application.fnomceo.it/Fnomceo/public/ricercaProfessionisti.public>)
-

Professional associations – Memberships

- 2016- **HWA** Healthy World Association
<http://www.hwassociation.org/>
-
- 2015- **Rotary Club** "Leonardo da Vinci" – Rome
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<http://www.romaleonardo.it/>

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- 2010- **BMEClub** (Biomedical Engineering Club)
<http://www.bmeclub.ch/>
-
- 2008- **IEEE EMBS** (Engineering in Medicine and Biology Society)
<http://www.embs.org/>
-
- 2007-2017 **SEREC** (Swiss Electromagnetics Research & Engineering Center)
<http://www.serec.ethz.ch>
-
- 2006- **IEEE Swiss section**
<http://www.ieee.ch/swiss-section/>
-
- 2006- **SSBE-SGBT** (Swiss Society for Biomedical Engineering)
<http://www.sgbt.ch/>

Contacts and personal data

Born in Foligno (PG), Italy, on August 16th 1956

Italian citizenship, Swiss resident since October 2006 (C permit)

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Languages: French C2 (Effective Operational Proficiency)

English: C1 (Effective Operational Proficiency)

Norwegian: B1 (Threshold, certified by AETAT – Oslo University)

German: basic (enough for not getting lost in travelling!)

Italian: native

Curiosities

Hobbies: cooking international food, walking, cycling, science philosophy, amateur radio (Swiss amateur operator: HB9EPK)

Origin of the name: Staderini comes from "stadèra", an ancient lever-based scale dating back to the Roman Empire. The Staderini family origins from Sinalunga, a medieval city in Tuscany where the family is supposed having been active for centuries in the commerce of agricultural goods which were sold by weight, so the name

Family motto: "PONDUS ET RATIO" (from Latin: Weight and Reasoning)

Family logo: The "stadèra" logo identified for almost a century the "Staderini Printing Company" in Rome whose owner Aristide invented the "staderini file cards catalog" for librarians, which was used worldwide in libraries until the introduction of informatics

Nickname: Stàdero



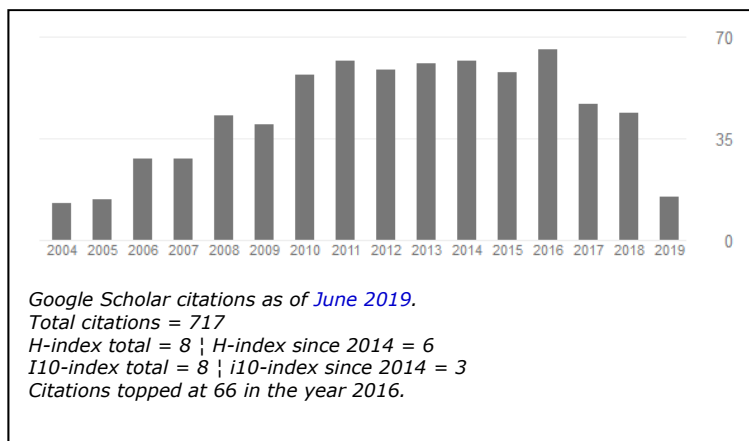
The "stadèra" logo.

Citations

Always check Google scholar for updated citations list:

<http://scholar.google.it/citations?user=pCZNGfkAAAAJ>

Most of the papers in the list are available online or from the author at enrico.staderini@heig-vd.ch



Most important publications

- 2019.1 **Staderini E.M.**: "Health Surveillance and Recording System (HSARS)". ASCI Journal of Management 47 (2) Spl: 26-35, 2019 Administrative Staff College of India.
- 2018.2 Milici S., Esposito A., **Staderini E.M.**: "A Wireless Indoor Navigation Aid for Visually Impaired People using UWB Localization Infrastructure and an Original Wayfinding Algorithm". 14th International Conference on Location Based Services. Jan 15-17, 2018 Zurich, Switzerland.
- 2018.1 **Staderini E.M.**: "A User-friendly Turnkey Infrastructure for Setting up World-wide, Personalized, Peer-to-peer Telemedicine Services". (Invited speaker) U-Healthcare2017 Conference: New Vision for Biomedical Engineering. Dec 5-7, 2017 National University Hospital Seoul, Korea.
- 2017.6 Michotte J.B., **Staderini E.M.**, Aubriot A-S., Jossen E., Dugernier J., Liistro G., Reyhler G.: "Pulmonary drug delivery following continuous vibrating mesh nebulization and inspiratory synchronized vibrating mesh nebulization during noninvasive ventilation in healthy volunteers". J Aerosol Med Pulm Drug Deliv., 31(1), July 2017.
- 2017.5 Millán J.R., Hauw D., Osório J., Hagin V., **Staderini E.M.**, Chavarriaga R.: "A neurophenomenological approach to sport performance: Associating phenomenological analysis of representative sports tasks in ecological settings with patterns of neural activity using EEG devices". International Society of Sport Psychology 14th World Congress, Sevilla, July 2017, Spain.
- 2017.4 Tematio C., Bassas M., Fosso N., Gaillard V., Mathieu M., Zinn M., **Staderini E.M.**, Schintke S.: "Design and characterization of conductive biopolymer nanocomposite electrodes for medical applications". THERMEC'2016, Graz (Austria), Materials Science Forum 879:1921 January 2017.
- 2017.3 Gentili S., Richetta M., Mugnaini S., Mancini S., **Staderini E.M.**: "The use of vibrotactile stimulation for improving manual tasks in Parkinson's disease patients". Invited, THERMEC'2016, Graz (Austria), Materials Science Forum 879:2348-2351 January 2017.
- 2017.2 Milici S., Esposito A., **Staderini E.M.**: "Evaluating athletic performances with a real time location and tracking system". Keynote, THERMEC'2016, Graz (Austria), Materials Science Forum 879:2352-2354 January 2017.
- 2017.1 **Staderini E.M.**, Junior Branco D., Mugnaini S., Gentili S.: "Near Infrared device for tissue inflammation evaluation". Invited, THERMEC'2016, Graz (Austria), Materials Science Forum 879:2361-2364 January 2017.
- 2016.2 Michotte J.B., **Staderini E.M.**, Le Pennec D., Dugernier J., Rusu R., Roeseler J., Vecellio L., Liistro G., Reyhler G.: "In vitro comparison of a vibrating mesh nebulizer operating in inspiratory synchronized and continuous nebulization modes during noninvasive ventilation". J Aerosol Med Pulm Drug Deliv., 29(4), June 2016.
- 2016.1 Michotte J.B., **Staderini E.M.**, Dugernier J., Rusu, R., Roeseler J., Liistro G., Reyhler G.: "In vitro comparison of inspiratory-synchronized and continuous nebulization modes during noninvasive ventilation: analysis of inhaled and lost doses". French Intensive Care Society, International congress – Réanimation 2016. Annals of Intensive Care 6(S1), June 2016.
- 2014.6 Keppner H., Depeyre J., **Staderini E.M.**: "Miniaturized capnometer sensor based on the ionization quenching effect". IEEE BioCAS 2014, Biomedical Circuits and Systems Conference, Lausanne Switzerland, October 22-25 2014.
- 2014.5 **Staderini E.M.**, Signorelli M.: "A neurophysiology experimental set-up in the practice of archery". Poster session, Schweizer SportMedizin Kongress, Interlaken, Switzerland, October 23-24, 2014.

- 2014.4 **Staderini E.M.**, Rampazzo J.: "Instrument for the estimation of cognitive and motor control function of human movement". 20th IMEKO TC4 International Symposium and 18th International Workshop on ADC Modelling and Testing Research on Electric and Electronic Measurement for the Economic Upturn Benevento, Italy, September 15-17, 2014.
- 2014.3 Frisardi F., Chessa G., Lumbau F.A., Okkesim S., Akdemir B., Kara S., **Staderini E.M.**, Ferrante A. and Frisardi F.: "The Reliability of the Bilateral Trigeminal Roots-motor Evoked Potentials as an Organic Normalization Factor: Symmetry or Not Symmetry?". Dentistry S2 Special Issue: Chronic Orofacial Pain or Temporomandibular Disorders, 2014. doi:10.4172/2161-1122.S2-005.
- 2014.2 **Staderini E.M.**: "Inexpensive microphone enables everyday digital recording of deglutition murmurs". Medical Information and Communication Technology (ISMICT), 2014 8th International Symposium on, 1-5, 2014, IEEE.
- 2014.1 **Staderini E.M.**, Rusu R.: "Pressure activated synchronizer of nebulizing therapy in BPAP artificial ventilation". Medical Information and Communication Technology (ISMICT), 2014 8th International Symposium on, 1-3, 2014, IEEE.
- 2013.4 **Staderini E.M.**: "Cybernetic approach for the assessment of movement control disorders". XX World Congress on Parkinson's Disease and Related Disorders, Geneva, Switzerland, December 8-11, 2013.
- 2013.3 Frisardi G., Iani C., Sau G., Frisardi F., Leonardi C., Lumbau A., Enrico P., Sirca D., **Staderini E.M.**, Chessa G.: "A relationship between bruxism and orofacial-dystonia? A trigeminal electrophysiological approach in a case report of pineal cavernoma". Behavioural and Brain Functions 2013, 9:41.
- 2013.2 Bornand C., Güsewell A., **Staderini E.M.**, Patra J.: "Sport and Technology: the Case of Archery". Affective Computing and Intelligent Interaction (ACII), 2013 Humaine Association Conference on, 2013, 715-716.
- 2013.1 Zito G.A., **Staderini E.M.**, Pisa S.: "A twin spiral planar antenna for UWB medical radars". Int. J. of Antennas and Propagation, Vol. 2013, Article ID 684185, 2013.
- 2011.2 Varotto G., **Staderini E.M.**: "On the UWB medical radars working principles". Int. J. Ultra Wideband Communications and Systems, Vol. 2, No. 2, 2011.
- 2011.1 **Staderini E.M.**, Mugnaini S.: "Personal vibrotactile stimulator for rehabilitation of the hand in stroke and Parkinson patients". 5th International Symposium on Medical Information and Communication Technology IEEE ISMICT2011, Montreux (Switzerland) March 27-30 2011.
- 2010.3 **Staderini E.M.**: "Remote clinical examination: the key issue of telemedicine". ITU-T Workshop on "Addressing security challenges on a global scale". International Telecommunication Union, Geneva, Switzerland, December 6-7, 2010.
- 2010.2 **Staderini E.M.**: "Accessibilité de l'environnement urbain pour les personnes à mobilité réduite". Université d'été Waterfront Yverdon-les-Bains, Suisse, July 9, 2010.
- 2010.1 Balthazard P., Goldman D., **Staderini E.M.**, Gigante G., Gentili S., S. Mugnaini S.: "Effects of reduced lumbar load by the use of a vertical traction device on dynamic subjects". Proc. 17th European Congress of the European Society of Physical and Rehabilitation Medicine, Venice, Italy, May 23-27, 2010.
- 2008.2 Varotto G., **Staderini E.M.**: "A 2D simple attenuation model for em waves in human tissues: comparison with a FDTD 3D simulator for UWB medical radar". Invited paper. IEEE International Conference on Ultra-Wideband, ICUWB 2008. Hannover, Germany, September 10-12, 2008.
- 2008.1 **Staderini E.M.**: "Regional differences in cross border telemedicine: experiences in the Arctic Countries and in the Middle Europe, in comparison". Invited presentation. Workshop on: Telemedicine in Cross Border Countries: experiences and projects in the frame of International Cooperation. Bolzano, March 31, 2008.
- 2007.7 **Staderini E.M.**, Varotto G.: "Optimization criteria in the design of medical UWB radars in compliance with the regulatory mask". Invited paper. IEEE BioCAS 2007, Biomedical Circuits and Systems Conference, Montréal Canada, November 27-30 2007.
- 2007.6 **Staderini E.M.**: "The International e-Health project of the Norwegian Centre for Telemedicine". Invited presentation. MEDMATICA: Forum nazionale sulla telemedicina e sulla sanità elettronica. Fiera di Vicenza October 4-5-6 2007.
- 2007.5 **Staderini E.M.**: "Computer controlled vibrotactile stimulator equipped with pressure sensor touch tablet and video recorder for rehabilitation of the hand in stroke patients". Poster session Annual Congress Swiss Association of Biomedical Engineering, Neuchâtel, 13-14 September 2007.
- 2007.4 **Staderini E.M.**, Varotto G.: "Optimization criteria in the design of medical UWB radars in compliance with the regulatory mask". Poster session Annual Congress Swiss Association of Biomedical Engineering, Neuchâtel, 13-14 September 2007.
- 2007.3 **Staderini E.M.**: "La fisica dell'elettrocardiogramma". Florence Heart 2007, Florence Italy, September 12 2007.
- 2007.2 **Staderini E.M.**: "What about Near Field Communication technology? An overview with possible future telemedicine applications". Whitepaper RFIDJournal available at <http://www.rfidjournal.net/newsletter021607.html> Feb, 16 2007.

- 2007.1 **Staderini E.M.:** "What about Near Field Communication technology? An overview with possible future telemedicine applications". Nuove Tecnologie in Medicina: Applicazioni Informatiche e Telematiche in Medicina. Anno 7, n. 3-4, 2007.
- 2006.1 **Staderini E.M.:** "Implementation of a personal web server based, open architecture for a straightforward e-patient e-physician communication link". Procs. TTeC2006 Tromsø Telemedicine and e-Health Conference, Tromsø Norway, June 12-14 2006.
- 2004.2 **Staderini E.M.:** "UWB radars in medicine: the rationale after ten years of research". Procs. PIERS2004 Progress in Electromagnetics Research Symposium, Pisa Italy, March 28-31 2004.
- 2004.1 Montecchia F., **Staderini E.M.:** "Microstrip antenna design for UWB radar application in medicine". Procs. PIERS2004 Progress in Electromagnetics Research Symposium, Pisa Italy, March 28-31 2004.
- 2003.1 **Staderini E.M.:** "An UWB Radar based stealthy 'Lie Detector'". In Ultra-Wideband Short-Pulse Electromagnetics 6. E. Mokole, K. Gerlach, M. Kragalott Eds. 2003 KLUWER ACADEMIC/PLENUM PUBLISHERS New York, U.S.A.
- 2002.2 **Staderini E.M.:** "An UWB Radar based stealthy 'Lie Detector'". American Electromagnetics Meeting, Annapolis Maryland, USA, 2-7 June 2002.
- 2002.1 **Staderini E.M.:** "UWB Radars in medicine". IEEE Aerospace and Electronic Systems Magazine, January 2002 13-18. [**This paper received more than 500 citations (as of March 2018)**].
- 2001.2 Florio T., Capozzo A., Cellini R., Pizzuti G., **Staderini E.M.**, Scarnati E.: "Unilateral lesions of the pedunculoopontine nucleus do not alleviate subthalamic nucleus-mediated anticipatory responding in a delayed sensorimotor task in the rat". Behav. Brain Res. 126 (2001) 93-103.
- 2001.1 **Staderini E.M.:** "Everything you always wanted to know about UWB radars...". Online Symposium for Electronics Engineers (OSEE). Web broadcasted on January 16th, 2001.
- 2000.2 **Staderini E.M.:** "Medical applications of UWB technology". 1st European Workshop on Open Mobile Access Networks based on Ultrawideband Technology, Brussels (B), December 13th-14th 2000.
- 2000.1 **Staderini E.M.:** "From microwave tomography to the ultra-wideband synthetic aperture radar: the personal radar camera is about to enter the real world". in Advances in Agricultural Tomography Eds. P.E. Cruvinel and L.A. Colnago Ministry of Agriculture and Food Supply. Procs. Workshop sobre Tomografia Reconstitutiva no Agronegócio, São Carlos - SP- Brazil 2000.
- 1999.2 **Staderini E.M.:** "UWB radars in medicine". Procs. 1999 International Ultra Wideband Conference, Washington, D.C. September 28-30 1999.
- 1999.1 Fattapposta F., **Staderini E.M.**, Pierelli F., Amabile G., Morocutti C.: "Esperienze di applicazione della trasformata Wavelet negli ERPs: elaborazione e classificazione del segnale nel paradigma CNV". Atti della riunione congiunta V Congresso Nazionale della Società Italiana di Psicofisiologia e 6^a Giornata Pavese di Neurofisiologia Clinica, Univ. Studi di Pavia, 7-9 novembre 1996. Journal of Psychophysiology - Vol 13, N. 1, 1999.
- 1998.1 Borroni A., Loy A., **Staderini E.M.:** "Lab and field approaches to the study of activity rhythms of fossorial insectivores: an interesting as well as difficult task". Poster presented at Measuring Behaviour '98, 2nd International Conf. on Methods and Techniques in Behavioural Research, 18-21 August 1998, Groningen The Netherlands.
- 1997.1 **Staderini E.M.:** "BASIC STAMP 2 has optoisolated RS-232 Interface". Electronic Design Dec. 01, 1997 Ideas for design 148.
- 1996.1 **Staderini E.M.:** "Mathematical morphology in Image Processing". Hand-on paper International Centre for Theoretical Physics. College on Medical Physics: Methods, Instrumentation and techniques in Medical Imaging. IAEA-UNESCO Trieste. September 9-27, 1996.
- 1994.1 Ramunni A., **Staderini E.M.**, Picenna N., Giancaspro V., Schena F.P.: "Integrated system medical chart. Teledialysis (NDTI) with a new man-machine interface for the automation of a division of nephrology, dialysis and transplant". Contrib. Nephrol. 109:1994, 90-5.
- 1993.1 Brunetti A., Texeira de Assis J., **Staderini E.M.**, Castellano A., Gigante G.E., Cesareo R.: "Use of a position sensitive detector for microtomography". Physica Medica - Vol. IX, Suppl. 1, June 1993.
- 1992.1 **Staderini E.M.:** "Methods for producing Biomedical Images through the Reconstruction from Projections". Hand-on paper International Centre for Theoretical Physics. College on Medical Physics: Imaging and radiation protection. IAEA-UNESCO Trieste. August 31, September 18, 1992.
- 1991.1 Cesareo R., Texeira de Assis J., **Staderini E.M.:** "Microtomography using quasi monoenergetic radiation from a X-ray tube". Digest of the World Congress on Medical Physics and Biomedical Engineering, July 7-12, 1991, Kyoto, Japan.
- 1989.1 Franconi C., Holowacz J., Ettinger K.V., **Staderini E.M.**, Bonori M., Laitano R.F.: "A precise S-band ESR reader for free radical routine dosimetry". Appl. Rad. Isot. 40:835, 1989.
- 1987.2 Staderini M., **Staderini E.M.:** "Simulating the effects of cardiovascular drugs: the Didapharm-DE System", MIE '87 Proc. 7th Intl. Congr. on Medical Informatics, Rome September 21-25, 1987 Vol.II 762-765.
- 1987.1 Staderini M., **Staderini E.M.:** "Simulation of pharmacokinetics: the Didapharm-PK System", MIE '87 Proc. 7th Intl. Congr. on Medical Informatics, Rome September 21-25, 1987 Vol.III 1240-1243.

- 1986.2 **Staderini E.M.**, Castellano A.: "Automatic track counting with an optic RAM-based instrument", Nuclear Tracks Vol. 12 Nos.1-6 1986.
- 1986.1 **Staderini E.M.**, Castellano A.: "An automatic analyzer of solid state nuclear track detectors using an optic RAM as image sensor". Nuclear Instruments and Methods in Physics Research A243 (1986) pag. 215-218.
- 1985.1 Castellano A., **Staderini E.M.**: "Pen Dosemeter Electronic Reader Unit". Radiation Protection Dosimetry, Vol. 11, No. 2: pag. 131- 132 (1985).
- 1982.1 Magrini A., Guerrisi M., Arabia M., **Staderini E.M.**, Franconi C.: "Control of the heart". Proc. First Int. IAEA Conference on Applications of Physics to Medicine and Biology, Trieste, March 30 – April 3, 1982. World Scientific Publishing Company, Singapore 1982.