

Panagiotis Bamidis - Curriculum Vitae

Personal information

Panagiotis Bamidis, Born: 19/7/1968. Lives in Thessaloniki, Greece, Married; 2 boys; Work address: Lab of Medical Physics, Medical School, Aristotle University of Thessaloniki P.O. Box 376, 54124 Thessaloniki, Greece, Telephone(s):+30-2310-999310, Fax: +30-2310-999263, E-mail: bamidis@auth.gr, pdbamidis@gmail.com, Nationality: Greek, Gender: Male

Narrative

The Principal Investigator (PI) was born in the year of MEG discovery (1968). He is currently Assoc. Professor in the Lab of Medical Physics, Medical School, Aristotle University of Thessaloniki (AUTH), GR. Being a graduate with excellence from the Physics Dept of AUTH back in 1990, he graduated with distinction from the MSc in Medical Physics, Univ of Surrey, UK obtaining the Phillips Mayenord Prize for the best overall performance in 1992. He then got a scholarship and joined the high-profile bioelectromagnetism groups at the Open University, UK, from where he graduated in 1996 with a PhD on functional brain imaging and the specific title “Spatio-temporal evolution of Interictal Epileptic Activity: a study with unaveraged multichannel MEG data in association with MRIs”. His Post-doc was on analysing MEG experiments from combined audiovisual evoked stimuli in the Dept of Physiological Sciences, Medical School, University of Newcastle-upon-Tyne, UK. Returning to Greece, he worked in Computer Science Depts and joined the Medical Informatics Lab of the AUTH as a Lecturer in 2004. With limited resources and indirect funding in the beginning, he managed to continue neurophysiological measurements and experimentation as well as functional brain imaging analysis and set up research groups and a lab spaces for biosignal recording and analysis of human brain activity and functional neuroimaging and specific emphasis on human-computer interaction/affective computing in the beginning. He is now the leader of various research groups that investigate a) brain mechanisms of human emotions and cognitive functionality, b) the effectiveness of pharmaceutical and non-pharmaceutical (cognitive and physical training, neurofeedback) interventions in changing the brain functionality, c) understanding how these interventions nurture cognitive health and emotional well-being throughout the life span of both healthy populations as well as cognitively challenged patients, and d) fusion of the emerging field of affective computing and affective medicine, with neuroscientific research.

As convincing elements of his capacity in research, teaching, professional standing, and administration, one can mention the following:

- (i) 3489 citations/h-index=28 according to google scholar;
- (ii) in 2009, he was awarded the Prize of the AUTH Research Committee for the Best Track Record in funded research projects among AUTH young academic staff and in 2017 the Dean’s Prize for the best record in attracting funds within the Health Sciences Faculty
- (iii) He is Editor in Chief of the International Journal of Bioelectromagnetism; Assoc Editor in 3 Journals, Editor.Board in 6 Journals
- (iv) chaired 13 international & 5 national conferences, organised >40 workshops;
- (v) participates in 10 MSc programmes, supervises 5 PhDs, co-supervises 10, has contributed to supervision of 6 PhDs, mentoring of 5 PhDs and applies innovative teaching strategies with interactive sessions and recordings of induced empathy; (vi) he is President of the Hellenic Society of Biomedical Technology, visiting Prof. at Leeds Inst Med Education, Honorary Prof of Karaganda Medical Univ, a Member of the Board of the Society of Applied Neurosciences, member of Administration Boards of other societies and patient associations; member of AUTH Research Committee, Medical Education office, e-Gov committee; (vii) In the last 9 years, he has been the co-ordinator of six large European projects (<http://captain-eu.org>, www.SmokeFreeBrain.org; www.meducator.net; www.longlastingmemories.eu, www.epblnet.eu, www.childrenhealth.eu), while participating in European projects promoting active aging, such as Ubiquitous iNteroperable Care for Aging People (UNCAP, <http://www.uncap.eu/>) and Intelligent Parkinson early detection guiding novel supportive interventions (i-PROGNOSIS, <http://www.i-prognosis.eu/>).

His publication record consists of more than 90 international refereed journal papers, and over 350 international peer reviewed conference papers, as well as several book chapters / edited conference proceedings volumes. In addition, he has been acting as a referee in more than 30 journals, and as Guest Editor in some 25 journal special issues. He is a member of the Editorial Board in 6 journals, Editor in Chief of the Int.Journal of Bioelectromagnetism and Associate Editor in the prestigious series of JMIR journals. He is the President of the Hellenic Biomedical Technology Society (ELEBIT), a member of the Administration Boards of the Society of Applied Neuroscience, the Greek Federation of Alzheimer’s Associations and Related Disorders, the Greek AeroSpace & Space Medicine Research Association, a member of the Life Sciences Division of the International Academy of Astronautics and past member of the Innovation Zone of Thessaloniki, Greece. He is/has been the Chairman/Organiser of 13 international conferences (iSHIMR2001, iSHIMR2005, MEDICON2010, GASMA2010, SAN2011, MEI2012, MEI2015, SAN2016, CBMS2017, ICT4AWE2018, TISHW 2018, MEI2018, SAN2019) and several national Biomedical Technology conferences. He is the Conference Producer of the Medical Education Informatics Conferences and associated Spring/Summer School Series in Internet Sharing Technologies and Open Data. He has been a visiting scientist at Karolinska Institute, Sweden (2014-2015). He is a member of the Advisory Board of the Open Knowledge Foundation and a founding member of Chapter Greece. In 2009, he was awarded the Prize of the AUTH Research Committee for the Best Track Record in funded research

projects among AUTH young academic staff. In 2015, he was awarded the title of the Honorary Professor of Karaganda State Medical University, Kazakhstan, as well as the Pospelov Medal for his contributions to Medical Education development by the same University. In 2017, he became a visiting Professor of Medical Education Technology, Innovation and Change for the Leeds Institute of Medical Education (LIME) of the University of Leeds, UK.

His research interests are within Affective and Applied Neuroscience, Affective and Physiological Computing, multimodal interaction, BCI and HCI, Health Information Management, Bio-medical Informatics with emphasis on neurophysiological sensing, signal analysis, and imaging of human emotions, technology enhanced learning in Medical Education (web2.0, semantic web and open linked data, serious games, virtual patients, PBL and scenario based learning, learning analytics). He is also actively researching Assistive Technologies for Active and Healthy Ageing and other sensitive societal groups, as well as, special education/developmental disorders, and silvergaming/exergaming/silver-science and the associated use of semantic technologies and IoT. Since 2012 he has established LLM Care ecosystem (www.llmcare.gr), the business exploitation of the LLM project, which is a candidate reference site of the EIP-on-AHA. In 2013 he established the Active and Healthy Ageing Living Lab in Thessaloniki (ThessAHALL; <http://www.aha-livinglabs.com/>) which in 2016 became an adherent member of the European Network of Living Labs (ENoLL). He has conceptualised, created and established and is heading four research groups within the Dept of Medicine, namely, the Group of Neuroscience of Cognition and Affection, the Assistive Technologies and Silver Science Group, the Health Services Research group and the Group of Medical Education Informatics.

Work experience

• Associate Professor of Medical Informatics-Medical Education Lab of Medical Physics, Medical School, Aristotle University of Thessaloniki, Greece, (2004-today). • Tutor, MSc in Health Care Management, Hellenic Open University (2001 -) • Senior Research Officer, South East-European Research Centre (SEERC), Thessaloniki, GREECE, (2003- 2004). • Senior Lecturer, Department of Computer Science, CITY LIBERAL STUDIES, Affiliated Institution of the University of Sheffield, (1998-2004). • Research Associate, Lab of Medical Informatics, Aristotle University of Thessaloniki, Greece, (1998- 2004). • Post-doctoral fellow, Department of Physiological Sciences Medical School, University of Newcastle-upon-Tyne, U.K. (1996-1997)

Reviewing experience

Reviewer: Int Journal of Bioelectromagnetism, Frontiers, Neuroscience & Biobehavioral Reviews, International Journal of Psychophysiology, Health Informatics Journal (Sage Publications), Neuroimage, Psychiatric Research, IEEE Transactions on Information Technology in Biomedicine, Biomedical Signal Processing & Control, Methods of Information in Medicine, the Information Systems Research (on-line journal), International Journal of Distance Education Technologies, Interactive Learning Environments and the Elsevier journal on Computer Methods and Programs in Biomedicine, as well as, a number of conferences like Medinfo(2007-2017), MIE2008-2017, AMIA 2002, ACM COMPAHEC 2004- 2006, iSHIMR (2001-) and CBMS (2007-2018), Medicine2.0 (2009-2012) and others.

Evaluator: Fondazione Cariplo -Italian foundation in Scientific Research, Arts & Culture, Environment and Social Welfare (2017), COST Action Rapporteur (2016), National Initiative Brain & Cognition (NIHC) Netherlands Organisation for Scientific Research (NWO) (2016), executive government agency of National Science Centre (Narodowe Centrum Nauki – NCN, Poland, 2016); Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO, 2016, 2017), Research Council of Norway – VERDIKT eHealth and social web projects (2011), Wellcome Trust (2008), National projects of the General Secretariat of Research and Technology (Ministry of Development; 2002, 2012, 2016, 2017), national project proposals of the Ministry of Science and Technological Development of the Republic of Serbia (2010).

Editorial & Professional experience

Editor in Chief: International Journal of Bioelectromagnetism

Associate Editor: Journal of Medical Internet Research (and sister journals), Healthcare Technology Letters

Guest Editor in: Neuroscience & Biobehavioral Reviews, Neuroscience, International Journal of Psychophysiology, Journal of Medical Internet Research, IEEE Journal of Biomedical Informatics, IEEE Transactions on Information Technology in Biomedicine, Computer Methods and Programs in Biomedicine, Biomedical Signal Processing & Control, Special Issue on Space and Aviation Medicine of the Hippokratia Journal, the MEFANET journal, Health and Technology, Healthcare Technology Letters

Member of the Editorial Board of the JMIR Medical Education Journal, Health Informatics Journal (Sage Publications), IEE Healthcare Technology Letters, Member of the Advisory Committee for the Hippokratia Journal

Conferences, societies :

Founder of: Conference series on Medical Education Informatics (MEI)

Chair of: Computer Based Medical Systems IEEE conference (CBMS2017), MEI 2015, 2012, the 2011, 2016 Conference of the Society of Applied Neuroscience (SAN2011, SAN2016), the 2011 Space Medicine International Conference, the 12th Mediterranean Conference of Medical and Biological Engineering and Computing (MEDICON 2010), Biomedical Signal Processing Track of the 9th IEEE International Conference on Information Technology and Applications in Biomedicine (ITAB 2009), the 6th International Symposium on Health Information Management Research (iSHIMR2001), Programme Committee for 10th International Symposium on Health Information Management Research (iSHIMR2005),

Significant research achievements in the last 10 years

Over 90 international refereed journal papers, over 350 international peer reviewed conference papers, over 12 book chapters, 15 edited books (IGI Global, Springer-Verlag, etc), >1200 cross-citations (Scopus), h-index=20.

Selected Invited talks

- Keynote speaker at International Conference on Information and Communication Technologies for Ageing Well and e-Health (2017), GeNeDiS 2016, eHealth360° Summit and AALIoT 2016 Conference, MEFANET international medical education network (2013), Exergaming conference during the Semaine Bleue 2010 (national week dedicated to the retirees and the elderly in France).
- Invited Panelist at IEEE Health Summit: panel on Technology and Human Touch, Brussels, Dec 2017
- Invited lecturer European Assisted Living Summer School Demo@care project, Chania 2013
- Invited Speaker on OGC Health Summit 2016, MEDICON2016, MSc course of the Catalonia Open University, Spain Nov, 2013; Inaugural lecture on acad. year start of the BSc course in Biomedical Engineering, University of Concepcion (Chile, 2016)
- Invited lecturer at Interactive Schools of Urology (Pilio, 2011), Psychiatry (2013-2016)
- Organiser and chair of the following workshops of 7th Panhellenic Conference on Alzheimer's Disease and Related Disorders in Thessaloniki (Feb 2011) [- Brain Neuro-imaging and dementia: the role of emotions, cognitive training and physical training; - Technological advancements in dementia; - Fit For All: physical training in LLM; - Emotion and cognitive function in the elderly]
- Invited speech on "Space Medicine Research" during the Graduation Ceremony for Postgraduate Students of the Medical School of AUTH (July 2010)
- Invited speaker at the Workshop of the ISEMD project (Intelligent System for Independent living and Selfcare of seniors with cognitive problems or Wild Dementia) in Rome (under the aegis of the Third International Symposium on Applied Sciences in Biomedical and Communication Technologies, ISABEL 2010)

Patents

- Greek Patent for "A biomedical Positioning System with radiowaves";
- Copyright holder of a system for Educating Autistic Children by Using New Technologies (the Autism and Avatar platform). The R&D and system have been maintained following a deed (before a proper patent application).

List of Selected Publications

- 1: Klados MA, Bamidis PD. Data Brief. 2016 Jun 29;8:1004-6. doi:10.1016/j.dib.2016.06.032.
- 2: Athanasiou A, Klados MA, Styliadis C, Foroglou N, Polyzoidis K, Bamidis PD. Neuroscience. 2016. pii: S0306-4522(16)30203-2. doi:10.1016/j.neuroscience.2016.05.044.
- 3: Bamidis PD. Editorial: Health Technol Lett. 2016 Mar 21;3(1):1. doi: 10.1049/htl.2016.0013.
- 4: Klados MA, Styliadis C, Frantzidis CA, Paraskevopoulos E, Bamidis PD. Front Neurosci. 2016. Feb 29;10:55. doi: 10.3389/fnins.2016.00055.
- 5: Konstantinidis EI, Billis AS, Mouzakidis CA, Zilidou VI, Antoniou PE, Bamidis PD. IEEE J Biomed Health Inform. 2016 Jan;20(1):189-200. doi: 10.1109/JBHI.2014.2378814.
- 6: Paraskevopoulos E, Kraneburg A, Herholz SC, Bamidis PD, Pantev C. Proc Natl Acad Sci U S A. 2015 Oct 6;112(40):12522-7. doi:10.1073/pnas.1510662112.
- 7: Bamidis PD, et al. Front Aging Neurosci. 2015 Aug 7;7:152. doi: 10.3389/fnagi.2015.00152.
- 8: Styliadis C, Kartsidis P, Paraskevopoulos E, Ioannides AA, Bamidis PD. Neural Plast. 2015;2015:172192. doi: 10.1155/2015/172192.
- 9: Styliadis C, Ioannides AA, Bamidis PD, Papadelis C. Neuroimage. 2015;110:149-61. doi: 10.1016/j.neuroimage.2015.02.006.
- 10: Fotiadis DA, Astaras A, Bamidis PD, Papathanasiou K, Kalfas A. IEEE J Biomed Health Inform. 2015 Sep;19(5):1707-17. doi:10.1109/JBHI.2014.2359580.
- 11: Frantzidis CA, Vivas AB, Tsolaki A, Klados MA, Tsolaki M, Bamidis PD. Front Aging Neurosci. 2014 ; 6:224. doi:10.3389/fnagi.2014.00224.
- 12: Gruzelier J, Bamidis P, Babiloni F, de Ridder D. Neurosci Biobehav Rev. 2014 Jul;44:1-3. doi:10.1016/j.neubiorev.2014.05.003.
- 13: Paraskevopoulos E, Kuchenbuch A, Herholz SC, Foroglou N, Bamidis P, Pantev C. Hum Brain Mapp. 2014 Nov;35(11):5389-400. doi: 10.1002/hbm.22558.
- 14: Bamidis PD, et al. Neurosci Biobehav Rev. 2014 Jul;44:206-20. doi: 10.1016/j.neubiorev.2014.03.019.