

Curriculum Vitae

Giorgos Giannakakis

Personal Information

Name Giorgos Giannakakis
Date of Birth 15/12/1979 (Athens, Greece)
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Google scholar <https://scholar.google.gr/citations?user=AR8VwAMAAAAJ>

Education

- 2005-2009 **Ph.D in Biomedical Engineering (Biomedical Electronics and Informatics)**
School of Medicine, University of Patras - School of Electrical and Computer Engineering,
National Technical University of Athens
Degree: Excellent
- 2003-2005 **M.Sc in Biomedical Engineering (Biomedical Electronics and Informatics)**
School of Medicine, University of Patras - School of Electrical and Computer Engineering,
National Technical University of Athens
Degree: 8.06/10
- 1998-2003 **Dipl.-Ing. in Electrical and Computer Engineering**
School of Electrical and Computer Engineering, National Technical University of Athens
Degree: 8.12/10

Professional positions

Current positions

- 11/2012-today **Postdoctoral Research Associate**
Institute of Computer Science, Foundation for Research and Technology Hellas (FORTH),
Greece
- 07/2020-today **Collaborating Researcher**
Institute of AgriFood and Life Sciences, University Research Centre, Hellenic Mediterranean
University
- 03/2019-today **Associate Teaching Staff**
Bioinformatics and Neuroinformatics, Hellenic Open University, Greece

Previous positions

- 10/2020-02/2021 **Associate Teaching Staff**, School of Electrical and Computer Engineering, Hellenic
Mediterranean University.
- 10/2020-02/2021 **Invited Lecturer**, Stress science and promotion of health, Medical School, University of
Athens, Greece.
- 03/2018-07/2018 **Visiting Lecturer**, Computer Science Department, University of Crete.
- 10/2010-02/2018 **Adjunct Associate Teaching Staff**, Technological Educational Institute of Crete.
- 03/2012-07/2012 **Adjunct Lecturer**, Department of Production Engineering and Management, Technical
University of Crete.

- 09/2010-10/2012 **Electrical and Computer Engineer**, Technical office (self employed), Implementation of electromechanical works, Chania.
- 01/2006-12/2008 **Principal Investigator**, School of Electrical and Computer Engineering, National Technical University of Athens (NTUA).
- 01/2005-04/2009 **Scientific Associate**, Institute of Communications and Computer Systems (ICCS).
- 03/2005-07/2009 **Teaching Assistant**, School of Electrical and Computer Engineering, National Technical University of Athens (NTUA).

Research experience

- 11/2012-today **Postdoctoral Research Associate**, Foundation for Research and Technology Hellas (FORTH), Institute of Computer Science.
- neuronXnet**: Dissecting Multi-Neuronal Modules of Computation in the Neocortex (ELIDEK 00013)
 - Fondation Sante**: Neuronal Networks in Epilepsy (DETH 00120)
 - KRIPIS II**: Biomedical Informatics: Biosignal EEG analysis for the development of a clinical decision system. (OPS 5002464)
 - SeeFar**: Smart glasses for multifaceted visual loss mitigation and chronic disease prevention indicator for healthier, safer, and more productive workplace for ageing population. (H2020-SC1-DTH-2018-1, GA No 826429)
 - UNICORN**: A framework for multi-cloud software fostering cloud technologies uptake from digital SMEs and startups. (H2020-ICT-2016, GA No 731846)
 - SEMEOTICONS**: SEMEiotic Oriented Technology for Individual's Cardiometabolic risk self-assessment and Self-monitoring (FP7-ICT-2013, GA No 611516)
 - Psychiatric Hospital Attica**: Design and development of information systems and support applications for technical support at PHA (Contract No. 2514/2015)
 - General Hospital Athens Alexandra**: Design and development of information systems and support applications for technical support at GHA Alexandra (Contract No. 2548/2014)
 - ICS/FORTH Program for MRI Software**: Requirements analysis and evaluation of magnetic resonance imaging (MRI) system for epileptic patients
 - General Hospital Eleusina**: Design and development of information systems and support applications for technical support at GH Eleusina (Contract No. 1625/2016)
 - General Hospital - KY Kithiron**: Design and development of information systems and support applications for technical support at GH-KY Kithiron (Contract No. 46/2014)
 - General Hospital Rhodes, Kos, Kalumnos**: Design and development of information systems and support applications for technical support at GH Rhodes, Kos, Kalumnos (Contract No. 101/2014)
 - University General Hospital Patras**: Design and development of information systems and support applications for technical support at UGH Patras (Contract No. 2218/2013)
 - predictES**: An Integrated wearable platform predicting Epileptic Seizures and novel neurofeedback approaches in support of personalized patient management
 - EURECA**: Enabling information re-Use by linking clinical Research and Care (FP7-ICT-2011, GA No 288048)
 - CHIC**: Computational Horizons in Cancer, Developing Meta- and Hyper-Multiscale Models and Repositories for In Silico Oncology (FP7-ICT-2011, No 600841)
 - INTERGRATE**: Driving Excellence in Integrative Cancer Research through Innovative Biomedical Infrastructures (FP7-ICT-2009, No 270253)
 - P-Medicine**: From data sharing and integration via VPH models to personalized medicine (FP7-ICT-2009, No 270089)
- 04/2017-04/2019 **Scientific Advisor/Principal investigator**, Foundation for Research and Technology Hellas (FORTH), Institute of Computer Science.
- Postdoctoral scholarship (Greek State Scholarships Foundation): Investigation of stress and psychological trauma through facial videos and biosignals.
- 07/2014-12/2014 **Postdoctoral Research Associate**, Technological Educational Institute of Crete.
- MyHealthAvatar: A Demonstration of 4D Digital Avatar Infrastructure for Access of Complete Patient Information (FP7-ICT-2011, No 600929).
- 01/2006-12/2008 **Principal Investigator**, National Technical University of Athens (NTUA).
- PENED 2003, Development of advanced computational algorithms and tools for the support of functional intervention in Parkinson disease and resistant epilepsy.

- 01/2005-04/2009 **Scientific Associate**, Institute of Communications and Computer Systems (ICCS).
 02/2009-04/2009 Health effects of electromagnetic radiation and wireless communications.
 04/2008-06/2008 INTERMED, An INTEgrated broadband telecommunication pilot teleservices-platform for improving health care provision in the Region of MEDiterranean.
 04/2008-04/2008 iWebCare, Integrated Web services platform for the facilitation of fraud detection in health care e-government services.
 07/2006-07/2006
 01/2005-03/2005 Development of 4th generation Wireless Systems Resources' Management.
 03/2006-06/2006 **Scientific Associate**, National Technical University of Athens (NTUA).
 Provision of technical services of the work of transactions automation.

Teaching experience

Teaching work in higher/university education

Teaching work in **6** different universities **5** postgraduate and **17** undergraduate lessons. The total non overlapping teaching experience is **9.5** years (**19** semesters).

- 10/2020-02/2021 **Invited Lecturer**, Postgraduate Programme "Stress science and promotion of health", Medical School, University of Athens, Greece.
 Basic Principles of Stress Science (fall 2020, spring 2021, fall 2021, spring 2023)
- 12/2022-02/2023 **Associate Teaching Staff**, School of Electronics Engineering, Hellenic Mediterranean University.
 Information Systems and applications (fall 2022)
 Cryptography and blockchain applications (fall 2022)
- 03/2019-07/2022 **Visiting Associate Teaching Staff**, Bioinformatics and Neuroinformatics, Hellenic Open University, Greece.
 Recording and Processing of Neural Biosignals (spring 2019, fall 2019)
 Biomedical Engineering and Medical Imaging Systems (spring 2022, fall 2021, spring 2021, fall 2020)
- 03/2021-07/2021 **Invited Lecturer**, Interdisciplinary Postgraduate Programme Brain and Mind Sciences, School of medicine, University of Crete.
 Introduction to Computational Neurosciences (spring 2021)
- 10/2020-02/2021 **Academic Teaching Grant**, School of Electrical and Computer Engineering, Hellenic Mediterranean University.
 Pattern Recognition (fall 2020)
- 03/2018-07/2018 **Visiting Lecturer**, Computer Science Department, University of Crete.
 Pattern Recognition
- 10/2012-02/2018 **Adjunct Laboratory Associate/Lecturer**, Department of Informatics Engineering TE, Technological Educational Institute of Crete.
 Course:
 Machine Vision (fall 2014, fall 2016)
 Laboratories:
 Machine Vision (fall 2014, fall 2017)
 Telemedicine (spring 2013)
 Multimedia Applications in Healthcare (fall 2013)
 Digital Signal Processing (fall 2012, spring 2016)
- 10/2014-02/2015 **Adjunct Laboratory Associate/Lecturer**, Department of Nursing, Technological Educational Institute of Crete.
 Biosignals Processing
 Informatics I
- 10/2012-02/2013 **Adjunct Scientific Associate/Lecturer**, Department of Music Technology and Acoustics, Technological Educational Institute of Crete.
 Course: Multimedia Applications
 Laboratory: Multimedia Applications
- 03/2012-07/2012 **Adjunct Lecturer**, Department of Production Engineering and Management, Division of Management and Administration, Technical University of Crete.
 Algorithms and Data Structures (Lab assignments in C)

- 10/2010-07/2012 **Adjunct Scientific Associate/Lecturer**, Department of Electronics, Technological Educational Institute of Crete.
 Course:
 Digital Control Systems (spring 2012)
 Laboratories:
 Signals and Systems (spring 2012)
 Digital Control Systems (spring 2011, spring 2012)
 Digital Signal Processing (fall 2010, spring 2011)
 Robotics (fall 2010)
 Electrical and Electronic Measurements (fall 2010 - spring 2011)
- 03/2005-07/2005, **Teaching Assistant**, School of Electrical and Computer Engineering, NTUA.
 2006, 2007, 2008, Supervision of semester projects
 2009 Postgraduate Course in Biomedical Engineering
 “Bioelectromagnetism”
- 09/2006-02/2007 **Teaching Assistant**, School of Electrical and Computer Engineering, NTUA.
 09/2007-02/2008 Supervision of lab assignments during undergraduate courses
 “Simulation of Physiological Systems”
 “Biomedical Engineering Laboratory”

Students' Advisor/Co-Advisor

Advisor and co-advisor of total fourteen (16) theses: one (1) Ph.D. thesis, nine (10) postgraduate theses and five (5) undergraduate theses.

Ph.D. thesis

- 12/2022 «*Machine learning algorithms for large-scale transcriptomic and genetic data*», Dimitris Grigoriadis, Department of Computer Science and Biomedical Informatics, 2022

Postgraduate theses

- 02/2023-07/2023 «*Time and frequency domain analysis of atrial electrograms in patients with atrial fibrillation*», Dionysios Leftheriotis, Hellenic Open University, 2023
- 03/2021-today «*Electroencephalographic signal processing for detection of intraoperative epileptic activity during awake craniotomy*», Christos Gkolemis, Hellenic Open University, 2021
- 03/2021-08/2021 «*Study of the role of stress in dementia and neuro-degeneration*», Vlasios Fileris, Hellenic Open University, 2021
- 10/2020-03/2021 «*Automatic stress detection using physiological measures and advanced machine learning methods*», George-Marios Kalatzantonakis-Jullien, Hellenic Open University, 2020
- 10/2020-03/2021 «*Stress recognition using physiological data and statistical methods*», Angelos Plataniotis, Hellenic Open University, 2020
- 10/2020-03/2021 «*Stress detection methods through hormonal and neurological biomarkers*», Kaffesaki Kalliopi, Hellenic Open University, 2020
- 09/2015-10/2016 «*Exploring eye activity as an indicator of the emotional state*», Tzedakis Charalampos, TEI Crete, 2016
- 09/2009-07/2010 «*Non Linear Analysis of EEG Causal Interactions*» (in Greek), Korda Alexandra, NTUA, 2010.
- 09/2008-07/2009 «*Extraction of Quantitative Synchronization Measures of Cerebral Activity*» (in Greek), Lekkas Alexandros, NTUA, 2009.
- 09/2008-07/2009 «*EEG Study Based on Information Theory measures*» (in Greek), Xenikou Monika-Filitsa, NTUA, 2009.

Undergraduate theses

- 04/2019-02/2020 «*Compressed Sensing Methods for Analysis of Epileptic Seizures*», Tsekos Nikolaos, Technical University of Crete, 2019
- 06/2015-03/2016 «*Cognitive processes information extraction via EEG*» (in Greek), Grigoriadis Dimitris, TEI Crete, 2016
- 03/2014-09/2015 «*Driver Drowsiness Detection via Eye Characteristics Extracted from Videos*» (in Greek), Asargiotakis Kostas, TEI Crete, 2015
- 04/2013-10/2013 «*Magnetoencephalographic Analysis using Projection on Independent Components (ICA)*» (in Greek), Antonakakis Marios, TUC, 2013

02/2006-07/2006 «Brain Regions Connectivity Study using computational methods and EEG data» (in Greek), Skoularikis Grigoris, NTUA, 2006.

Pedagogical and Teaching training/education

10/2020-06/2021 **Certificate of Pedagogical and Teaching Competence**, Higher School of Pedagogical and Technological Education (ASPATE).

10/2008 **Certificate of Pedagogical adult training and certification of adult educator in informatics**, Greek National Accreditation Center for Continuing Vocational Training.

Development of teaching materials

Development of teaching material for the laboratory courses:

Digital Signal Processing, Department of Electronics, Technological Educational Institute of Crete, 2010

Multimedia Applications in Healthcare, Department of Informatics Engineering, Technological Educational Institute of Crete, 2013

Telemedicine, Department of Informatics Engineering, Technological Educational Institute of Crete, 2013

Artificial Vision, Department of Informatics Engineering, Technological Educational Institute of Crete, 2014

Professional experience

09/2004-today **Web developer**, Self employed.

Design and implementation of websites

- www.marmitasband.com (technologies PHP, MySQL, Wordpress)
- www.neuroped.gr (technologies PHP, MySQL, Wordpress)
- www.kalimeri.gr (technologies eCommerce, Woocommerce, PHP, MySql)
- www.apokinou.gr (technologies PHP, MySQL, Wordpress)
- www.chaniafestival.gr (technologies PHP, MySQL, Wordpress)
- www.euzoea.com (technologies PHP, MySQL, Wordpress)
- www.musicalinstruments.gr (technologies PHP, MySQL, Wordpress)
- www.mesarmi.gr (technologies PHP, MySQL, Wordpress)
- www.tangoneon.gr (technologies PHP, MySQL, Wordpress)
- www.chaniafestival.gr (technologies PHP, MySQL, Wordpress)
- www.hotels-kania.gr (technologies PHP, MySQL, AJAX, JQuery, Javascript, Google Maps, SEO)
- www.bibe2008.org (technologies PHP, MySQL)
- www.ontas.gr (technologies PHP, Google Maps)
- www.biosim.ntua.gr/smartdiab
- www.biosim.ntua.gr (technologies HTML/DHTML, SEO)

09/2010-10/2012 **Electrical Engineer**, Self employed.

Implementation of electromechanical works

02/2012-08/2012 Directorate of Technical Works of Chania Regional Unit.

Work: Building infrastructure improvement and EM fixtures of Kissamos Health Center

04/2011-04/2012 Region of Crete, Directorate of Technical Works.

Work: Addition of A' floor in childcare station of Municipality of Nea Kydonia

07/2009-08/2009 Engineer in place, *TYDK of Crete Region*.

Work: Lightning of Municipality Kantanou with traditional poles

04/2012-10/2012 **Programmer**, Medicines Du Monde (Chania Polyclinic), (voluntary work).

Design and implementation of clinic/pharmacy management web-based application (technologies Php, MySQL, Ajax, JQuery)

08/2009-05/2010 **Soldier**, Compulsory Military Service at Hellenic Army.

10/2008-03/2009 **Analyst/Programmer**, University Mental Health Research Institute, (voluntary work).

Design and implementation of electroencephalographic recording system (NI Labview technology)

02/2007-06/2009 **Analyst/Programmer**, Hellenic Center of Neurosurgical Research.

Design, implementation and support of a web-based data management and analysis system for epileptic patients - EPILDA (JSP, JBoss 4, MS SQL Server technologies)

- 02/2004-06/2009 **Ph.D Candidate**, Laboratory Assistance at Biomedical Simulations and Imaging (BIOSIM).
 - Measurements Supervisor: Measurements of electromagnetic radiation levels (RF) in regions being in the proximity of base stations of mobile communications system
 - Webmaster of the lab website (www.biosim.ntua.gr)
 - Writing and implementation of research projects
- 10/2006-12/2008 **Instructor**, "System" consultant company.
 Statistics seminars
- 09/2005-02/2008 **Instructor**, "KEK Parthenon" Computer Studies.
 Informatics seminars
- 07/2005-08/2005 **Instructor**, MEMO Computers.
 Informatics seminars
- 03/2004-06/2004 **Instructor**, "IEK Domi" Computer Studies.
 Programming Languages (Java, Javascript, C++) seminars
- 2000-2003 Work in Technical Office during summer months.

Grants

- 2023-today **Basic Research Financing, National Recovery and Resilience Plan (Greece 2.0)**, ProMote: The Development of Preterm Infants from Low Socio-economic Status Families: The Combined Effects of Melatonin, Autonomic Nervous System Maturation and Psychosocial Factors
 FORTH Funding: **13.585€**
 Total amount of Funding: 136.924€.
 (Member of the research team, principal applicant: T. Kokkinaki)
- 2023-today **European COST Action funding OC-2022-1-25773**, A European consortium to study how complex, real-world environments influence brain development.
 FORTH Funding:
 Total amount of Funding: .
 (Member of the research team, principal applicant: Sam Wass (Professor of Early Years Neuroscience))
- 2022-today **Erasmus+ KA220-SCH - Cooperation partnerships in school education 2022-1-EL01-KA220-SCH-000086968**, STEAMDIVE: Diversity in STEAM.
 FORTH Funding: **93.944€**
 Total amount of Funding: 400.000€.
 (Principal Investigator)
- 2022-today **ICS Seed Funding, PRECISE-CAD: Precision medicine in Cardiovascular Disease (CAD)**. Detection of life-threatening unstable atherosclerotic plaques at the pre-clinical setting.
 FORTH Funding: **50.000€**
 Total amount of Funding: 50.000€.
 (Member of the research team, principal applicant: G. Papadakis)
- 2021-today **OPSAA 0016524071**, Tour on virtual reality exhibition of relics, incunables and historical imprints of the Monastery Apezanon
 FORTH Funding: **94.058€**
 Total amount of Funding: 575.000€.
 (Principal applicant)
- 2018-2021 **H2020-SC1-DTH-2018-1 Grant**, SeeFar: Smart glasses for multifacEted visual loss mitigation and chronic disEase prevention indicator for healthier, saFer, and more productive workplAce foR ageing population. (H2020-SC1-DTH-2018- 1, GA No 826429)
 FORTH Funding: **273.750€**
 Total amount of Funding: 3.988.712€.
 (Member of the research team, principal applicant: D. Fotiadis)
- 10/2020-today **Academic Teaching Grant**, School of Electrical and Computer Engineering, Hellenic Mediterranean University, Greece
 Pattern Recognition (fall 2020).
 (Principal applicant)

- 03-07/2018 **Academic Teaching Grant**, Acquisition of academic teaching experience to young scientists PhD holders, University of Crete
Pattern Recognition (spring 2018)
Total amount of Funding: **4.200€**.
(Principal applicant)
- 2017-2019 **Postdoctoral scholarship**, (Greek State Scholarships Foundation): Investigation of stress and psychological trauma through facial videos and biosignals
Total amount of Funding: **26.141€**.
(Principal applicant)
- 2014-2017 **FP7-ICT-2013 Grant**, (SEMEOTICONS: SEMEiotic Oriented Technology for Individual's CardiOmetabolic risk self-assessment and Self-monitoring (FP7-ICT-2013, GA No 611516)
FORTH Funding: **384.280€**
Total amount of Funding: 5.383.126€.
(Member of the research team, principal applicant: F. Chiarugi)
- 2006-2008 **Greek Secretariat for Research and Technology Grant**, (PENED 2003, Development of advanced computational algorithms and tools for the support of functional intervention in Parkinson disease and resistant epilepsy
Total amount of Funding: **32.130€**.
(Principal Investigator)

Language Skills

		Understanding		Speaking		Writing
		Listening	Reading	Interaction	Production	
Greek	Mother Tongue	C2	C2	C2	C2	C2
English	Advanced Cambridge Certificate of Proficiency in English (Grade C)	C2	C2	C2	C2	C2
German	Conversant Zertifikat Gesamnote Gut (101.75/120)	B1	B1	B2	B1	B1

*Self-assessment European level [CEFR](#) (C2 maximum evaluation)

Technical skills

Programming Languages	MATLAB, C/C++, Java, Python Fortran, Pascal, Prolog	Web Development	HTML/HTML5, PHP, Javascript, JSP, AJAX, JQuery, XML, CSS/CSS3, WordPress, Google Maps API
Databases	MS SQL Server, MySQL	Statistics	SPSS
Operating Systems	Windows XP/Vista/7/8/10, Linux Ubuntu	Office automation	Microsoft Office, \LaTeX
Graphic Design	Adobe Photoshop, Premiere, Flash	Other	NI Labview

Publications

Refereed Journal publications (under review)

- [JU1] G. Giannakakis, A. Roussos, C. Andreou, S. Borgwardt, and A. Korda. Stress detection based on facial action units, machine learning and explainable artificial intelligence. *Computer Methods and Programs in Biomedicine (major revision)*.
- [JU2] M. Katimertzi, N. Smirnis, G. Chrousos, G. Giannakakis, C. Kanaka-Gantenbein, F. Bacopoulou, M. Charalampopoulou, M. Michou, I. Tzelepi, K. Angelopoulou, E. Zaverdinou, and C. Darviri. Pythagorean self-awareness intervention: A pilot study examining improvements in clinical symptoms, heart rate variability, and lifestyle factors in schizophrenia spectrum disorders. *Schizophrenia Research (under review)*.

Refereed Journal publications

- [J1] M. Fraidakis, G. Giannakakis, A. Anifantaki, M. Skouradaki, P. Tsakoumi, P. Bitzopoulou, S. Kourpa, A. Zervakis, and P. Kakouri. Intraovarian platelet-rich plasma injections: Safety and thoughts on efficacy based on a single centre experience with 469 women. *Cureus*, 15(5):e38674, 2023.
- [J2] T. Kokkinaki, M. Markodimitraki, G. Giannakakis, I. Anastasiou, and E. Hatzidaki. Comparing full- and pre-term neonates' heart rate variability in rest condition and during spontaneous interactions with their parents at home. *Healthcare*, 11(5), 2023 [IF: 3.160].
- [J3] K. Angelopoulou, E. Zaverdinou, F. Bacopoulou, G.P. Chrousos, G. Giannakakis, C. Kanaka-Gantenbein, S. Mavrogeni, M. Charalampopoulou, M. Katimertzi, and C. Darviri. The effect of pythagorean self-awareness on heart rate variability, perceived stress and behavior of preschool children. *Children*, 9(10), 2022 [IF: 2.863].
- [J4] E.V. Christaki, P. Pervanidou, I. Papassotiriou, D. Bastaki, E. Valavani, A. Mantzou, G. Giannakakis, D. Boschiero, and G.P. Chrousos. Circulating FGF21 vs. stress markers in girls during childhood and adolescence and in their caregivers: Intriguing inter-relations between overweight/obesity, emotions, behavior, and the cared-caregiver relationship. *Children*, 9, 2022 [IF: 2.863].
- [J5] E.V. Christaki, P. Pervanidou, I. Papassotiriou, D. Bastaki, E. Valavani, A. Mantzou, G. Giannakakis, D Boschiero, and G.P. Chrousos. Stress, inflammation and metabolic biomarkers are associated with body composition measures in lean, overweight and obese children and adolescents. *Children*, 9(2), 2022 [IF: 2.863].
- [J6] M. Aschner, R. Mesnage, A.O. Docea, M.M.B. Paoliello, A. Tsatsakis, G. Giannakakis, G.Z. Papadakis, S.R. Vinceti, A. Santamaria, A.V. Skalny, and A.A. Tinkov. Leveraging artificial intelligence to advance the understanding of chemical neurotoxicity. *NeuroToxicology*, 89:9-11, 2022 [IF: 4.294].
- [J7] B. Kobas, S.C. Koth, K. Nkurikiyeyezu, G. Giannakakis, and T. Auer. Effect of exposure time on thermal behaviour: A psychophysiological approach. *Signals*, 2(4):863-885, 2021.
- [J8] G. Giannakakis, M.R. Koujan, A. Roussos, and K. Marias. Automatic stress analysis from facial videos based on deep facial action units recognition. *Pattern Analysis and Applications*, 2021 [IF: 2.580].
- [J9] C. Koumarela, T. Kokkinaki, G. Giannakakis, K. Koutra, and E. Hatzidaki. Autonomic nervous system maturation and emotional coordination in interactions of preterm and full-term infants with their parents: Protocol for a multimethod study. *JMIR Research Protocols*, 10(4):e28089, Apr 2021.
- [J10] V. Skaramagkas, G. Giannakakis, D. Manousos, I. Karatzanis, N. Tachos, E. Tripoliti, K. Marias, D.I. Fotiadis, and M. Tsiknakis. Review of eye tracking metrics involved in emotional and cognitive processes. *IEEE Reviews in Biomedical Engineering*, 16:260-277, 2021. [IF: 7.073].
- [J11] A. Korda, G. Giannakakis, E. Ventouras, P. Asvestas, N. Smyrnis, K. Marias, and G. Matsopoulos. Recognition of blinks activity patterns during stress conditions using CNN and Markovian analysis. *Signals*, 2(1):55-71, Jan 2021. [(Best Paper Award Signals 2021)].
- [J12] K. Giannakaki, G. Giannakakis, P. Vorgia, and M. Zervakis. Absence seizure detection classifying matching pursuit features of EEG signals. *EAI Endorsed Transactions on Bioengineering and Bioinformatics*, 20(e2), October 2020.
- [J13] G. Giannakakis, D. Grigoriadis, K. Giannakaki, O. Simantiraki, A. Roniotis, and M. Tsiknakis. Review on psychological stress detection using biosignals. *IEEE Transactions on Affective Computing*, 13(1):440-460, 2022. [IF: 13.990].
- [J14] G. Giannakakis, M. Tsiknakis, and P. Vorgia. Focal epileptic seizures anticipation based on patterns of heart rate variability parameters. *Computer Methods and Programs in Biomedicine*, 178:123-133, 2019. [IF: 3.632].
- [J15] P. Henriquez, B.J. Matuszewski, Y. Andreu-Cabedo, L. Bastiani, S. Colantonio, ..., A. Bjorgan, G. Giannakakis, M. Padiaditis, F. Chiarugi, E. Christinaki, K. Marias, and M. Tsiknakis. Mirror

mirror on the wall... an unobtrusive intelligent multisensory mirror for well-being status self-assessment and visualisation. *IEEE Transactions on Multimedia*, 19(7):1467-1481, July 2017. [IF: 5.452].

- [J16] G. Giannakakis, M. Pediaditis, D. Manousos, E. Kazantzaki, F. Chiarugi, P.G. Simos, K. Marias, and M. Tsiknakis. Stress and anxiety detection using facial cues from videos. *Biomedical Signal Processing and Control*, 31:89-101, 2017. [IF: 2.943] (Top 20 most-cited articles in the BSPC journal).
- [J17] G. Stavriniadis, K. Michelakis, V. Kontomitrou, G. Giannakakis, M. Sevrisianos, G. Sevrisianos, N. Chaniotakis, Y. Alifragis, and G. Konstantinidis. Su-8 microneedles based dry electrodes for electroencephalogram. *Microelectronic Engineering*, 159:114-120, 2016. [IF: 1.654].
- [J18] Y. Andreu, F. Chiarugi, S. Colantonio, G. Giannakakis, G. Giorgi, P. Henriquez, E. Kazantzaki, D. Manousos, K. Marias, MA. Matuszewski, BJ. Pascali, M. Pediaditis, G. Raccichini, and M. Tsiknakis. Wize mirror - a smart, multisensory cardio-metabolic risk monitoring system. *Computer Vision and Image Understanding*, 148:3-22, 2016. [IF: 2.645].
- [J19] C. Papageorgiou, A.D. Rabavilas, X. Stachteia, G.A. Giannakakis, M. Kyprianou, G.N. Papadimitriou, and C.N. Stefanis. The interference of introversion-extraversion and depressive symptomatology with reasoning performance: A behavioural study. *Journal of Psycholinguistic Research*, 41(2):129-139, 2012. [IF: 0.659].
- [J20] C. Papageorgiou, G.A. Giannakakis, K.S. Nikita, D. Anagnostopoulos, G.N. Papadimitriou, and A. Rabavilas. Abnormal auditory ERP N100 in children with dyslexia: comparison with their control siblings. *Behavioral and Brain Functions*, 5, 2009. [IF: 2.457].
- [J21] J. Stoitsis, G.A. Giannakakis, C. Papageorgiou, K.S. Nikita, A. Rabavilas, and D. Anagnostopoulos. Evidence of a posterior cingulate involvement Brodmann area 31 in dyslexia: a study based on source localization algorithm of event-related potentials. *Progress Neuropsychopharmacology Biological Psychiatry*, 32(3):733-738, April 2008. [IF: 4.315].
- [J22] C. Papageorgiou, D. Anagnostopoulos, G.A. Giannakakis, K. Sakelariou, N. Tsiapas, P. Paraskevopoulou, K. Nikita, A. Rabavilas, and C. Soldatos. Preattentive deficits in developmental disorders of scholastic skills. *Neuroreport*, 16(16):1829-32, November 2005. [IF: 1.266].

Book Chapters

- [B1] G. Giannakakis, V. Sakkalis, M. Pediaditis, and M. Tsiknakis. Methods for Seizure Detection and Prediction: An Overview. *Neuromethods*, Springer New York, 91:131-157, 2015.

Conference publications

- [C1] C. Zouraraki, G. Giannakakis, P. Karamaouna, E. Economou, and S.G. Giakoumaki. Eye tracking profile of static facial affect in schizotypy. In *2nd Panhellenic Conference on Neuropsychology*, Thessaloniki, Greece, 27-29 September 2023.
- [C2] G. Papastratigakis, G. Stefanakis, V. Nyktari, E. Koutoulaki, G. Giannakakis, and A. Papaioannou. Effect of a perioperative opioid free anaesthesia-analgesia (OFA-A) strategy on surgical stress response in elective open abdominal aortic aneurysm repair: A prospective randomized study - early study findings. In *European Society of Anaesthesiology and Intensive Care Congress Euroanaesthesia (ESAIC2023)*, Glasgow, Scotland, 3-5 June 2023.
- [C3] G. Giannakakis, K. Makantasis, K. Giannakaki, M. Zervakis, and P. Vorgia. Detection of focal epileptic seizures on eeg signals using the csp algorithm. In *14th European Congress on Epileptology (ECE)*, Geneva, Switzerland, 9-13 July 2022.
- [C4] E. Χριστάκη, Π. Περβανίδου, Ι. Παπασωτηρίου, Γ. Γιαννακάκης, Α. Μάντζου, Χ. Κανακά-Gantenbein, and Γ. Χρούσογ. Correlations of circulating fibroblast growth factor 21 (FGF21) with stress in children and adolescents and their guardians: interesting interactions between

overweight, emotions, and child-guardian relationships. In *6^o Conference of Pediatric and Adolescent Endocrinology*, Αθήνα, 11-12 Σεπτεμβρίου 2021.

- [C5] G.M. Kalatzantonakis-Jullien, N. Stefanakis, and G. Giannakakis. Investigation and ordinal modelling of vocal features for stress detection in speech. In *9th International Conference on Affective Computing and Intelligent Interaction (ACII 2021)*, Nara, Japan, 28 Sept-1 Oct 2021. (45.5% acceptance rate).
- [C6] G. Papadakis, K. Shekhar, J Irizarry-Caro, G Giannakakis, A. Karantanas, W. Gahl, K. O'Brien, J Estrada-Veras, and F. Hannah-Shmouni. Increased metabolic activity of the adrenal glands assessed by 18f-fdg pet/ct in patients with erdheim-chester disease associated with the braf v600e disease causing variant. In *Journal of Nuclear Medicine 62 (supplement 1)*, 2021. (Best Abstract Award).
- [C7] G. Papadakis, G. Giannakakis, A.H. Karantanas, K. Marias, M.T. Collins, and A.M. Boyce. ¹⁸F-NaF uptake by fibrous dysplasia lesions in the skull is significantly higher in patients with optic neuropathy. In *33rd Annual Congress of the European Association of Nuclear Medicine*, 2020.
- [C8] P. Vorgia, K. Giannakaki, N. Tsekos, G. Giannakakis, and M. Zervakis. Automatic focal epileptic seizures detection using common spatial patterns (CSP) methodology. In *12th European Congress on Epileptology (ECE)*, Geneva, Switzerland, 5-9 July 2020.
- [C9] G. Giannakakis, M.R. Koujan, A. Roussos, and K. Marias. Automatic stress detection evaluating models of facial action units. In *13th IEEE Conference on Automatic Face and Gesture Recognition (FG2020)*, Buenos Aires, Argentina, 18-22 May 2020 (46% acceptance rate).
- [C10] M.R. Koujan, L. Alharbawee, G. Giannakakis, N. Pugeault, and A. Roussos. Real-time facial expression recognition "In The Wild" by disentangling 3D expression from identity. In *13th IEEE Conference on Automatic Face and Gesture Recognition (FG2020)*, Buenos Aires, Argentina, 18-22 May 2020 (46% acceptance rate).
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- [C12] K. Giannakaki, G. Giannakakis, P. Vorgia, M. Klados, and M. Zervakis. Automatic absence seizure detection evaluating matching pursuit features of EEG signals. In *19th IEEE International Conference on Bioinformatics and Bioengineering (BIBE)*, Athens, Greece, 28-30 October 2019.
- [C13] G. Giannakakis, N. Stefanakis, A. Ilias, and P. Simos. Evaluation of social and cognitive load stress detection using speech-derived features. In *8th International Conference on Computational Bioengineering (ICCB2019)*, Belgrade, Serbia, 4-6 September 2019.
- [C14] G. Giannakakis, E. Trivizakis, M. Tsiknakis, and K. Marias. A novel multi-kernel 1d convolutional neural network for stress recognition from ECG. In *8th International Conference on Affective Computing and Intelligent Interaction (ACII 2019)*, Cambridge, UK, 3-6 September 2019. (27% acceptance rate).
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- [C19] G. Giannakakis, D. Manousos, and M. Tsiknakis. Evaluation of head pose features for stress detection and classification. In *IEEE Conference on Biomedical and Health Informatics (BHI)*, Las Vegas, USA, 4-7 March 2018.
- [C20] K. Giannakaki, G. Giannakakis, C. Farmaki, and V. Sakkalis. Emotional state recognition using advanced machine learning techniques on EEG data. In *30th IEEE International Symposium on Computer-Based Medical Systems*, Thessaloniki, 22-24 June 2017.
- [C21] O. Simantiraki, G. Giannakakis, A. Pampouchidou, and M. Tsiknakis. Stress detection from speech using spectral slope measurements. In *MINDCARE2016, 6th EAI International Symposium on Pervasive Computing Paradigms for Mental Health*, Barcelona, 28-29 November 2016.
- [C22] A. Pampouchidou, O. Simantiraki, A. Fazlollahi, M. Padiaditis, D. Manousos, A. Roniotis, G. Giannakakis, F. Meriaudeau, P. Simos, K. Marias, F. Yang, and M. Tsiknakis. Depression assessment by fusing high and low level features from audio, video, and text. In *6th International Workshop on Audio/Visual Emotion Challenge (AVEC '16)*, 2016.
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- [C27] Y. Andreu-Cabedo, P. Castellano, S. Colantonio, G. Coppini, R. Favilla, D. Germanese, G. Giannakakis, D. Giorgi, M. Larsson, and P. Marraccini. Mirror mirror on the wall... an intelligent multisensory mirror for well-being self-assessment. In *IEEE International Conference on Multimedia and Expo (ICME)*, Torino, Italy, 29 June-3 July 2015.
- [C28] E. Christinaki, G. Giannakakis, F. Chiarugi, M. Padiaditis, G. Iatraki, D. Manousos, K. Marias, and M. Tsiknakis. Comparison of blind source separation algorithms for optical heart rate monitoring. In *4th International Conference on Wireless Mobile Communication and Healthcare*, Athens, Greece, 3-5 November 2014.
- [C29] P. Vorgia, S. Voutoufianakis, D. Champsas, V. Kritsotakis, M. Padiaditis, G. Giannakakis, E. Dimitriou, E. Matzourani, and M. Tsiknakis. Presentation study for the development of non invasive epileptic seizure prediction device and electronic health medical record of epileptic patients. In *9th Panhellenic Congress of Epilepsy*, Athens, Greece, 17-19 October 2014.
- [C30] F. Chiarugi, G. Iatraki, E. Christinaki, D. Manousos, G. Giannakakis, M. Padiaditis, A. Pampouchidou, K. Marias, and M. Tsiknakis. Facial signs and psycho-physical status estimation for well-being assessment. In *7th International Conference on Health Informatics*, Angers, France, 3-6 March 2014.
- [C31] M. Antonakakis, G. Giannakakis, M. Tsiknakis, S. Micheloyannis, and M. Zervakis. Synchronization coupling investigation using ICA cluster analysis in resting MEG signals in reading difficulties. In *13th IEEE International Conference on Bioinformatics and Bioengineering (BIBE)*, Chania, Greece, 10-13 November 2013.

- [C32] Π. Βοργιά, Γ. Γιαννακάκης, Β. Σακκαλής, Μ. Πεδιαδίτης, Χ. Φαρμάκη, Σ. Βουτουφιανάκης, and Μ. Τσικνάκης. Ανίχνευση αφαιρέσεων με χρήση προσεγγιστικής εντροπίας. In *Πρακτικά του 8^{ου} Πανελληνίου Συνεδρίου Επιληψιας*, Θεσσαλονίκη, Ελλάδα, 18-20 Οκτωβρίου 2013.
- [C33] G. Giannakakis, V. Sakkalis, M. Pediaditis, C. Farmaki, P. Vorgia, and M. Tsiknakis. An approach to absence epileptic seizures detection using approximate entropy. In *35th Annual International Conference of the IEEE Engineering in Medicine and Biology (EMBC)*, Osaka, Japan, 3-7 July 2013.
- [C34] V. Sakkalis, G. Giannakakis, C. Farmaki, A. Mousas, M. Pediaditis, P. Vorgia, and M. Tsiknakis. Absence seizure epilepsy detection using linear and nonlinear EEG analysis methods. In *35th Annual International Conference of the IEEE Engineering in Medicine and Biology (EMBC)*, Osaka, Japan, 3-7 July 2013.
- [C35] K. Michalopoulos, V. Iordanidou, G.A. Giannakakis, K.S. Nikita, and M. Zervakis. Characterization of evoked and induced activity in EEG and assessment of intertrial variability. In *10th International Workshop on Biomedical Engineering*, Kos Island, Greece, 5-7 October 2011.
- [C36] I.I. Andreadis, G.A. Giannakakis, C. Papageorgiou, and K.S. Nikita. Detecting complexity abnormalities in dyslexia measuring approximate entropy of electroencephalographic signals. In *31st Annual International Conference of the IEEE Engineering in Medicine and Biology (EMBC)*, Minneapolis, USA, 2-6 September 2009.
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- [C38] G.A. Giannakakis, N.N. Tsiaparas, M.-F.S. Xenikou, C.C. Papageorgiou, and K.S. Nikita. Wavelet entropy differentiations of event related potentials in dyslexia. In *8th IEEE International Conference on Bioinformatics and Bioengineering (BIBE)*, Athens, Greece, 8-10 October 2008.
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- [C42] D. Anagnostopoulos, G. Giannakakis, J. Stoitsis, K. Nikita, C. Papageorgiou. Patterns of preattentive processing in children with dyslexia: A psychophysiological investigation. In *1st Eastern European Psychiatric Congress, Psychiatriki 18*, page 55 (Supplement 1), Thessaloniki, Greece, 21-23 September 2007.
- [C43] G. Giannakakis, J. Stoitsis, G. Trichopoulos, K. Nikita, Ch. Papageorgiou, D. Anagnostopoulos, A. Rabavilas, C. Soldatos. Investigation of specific learning difficulties on the information flow in multichannel EEG signals. In *5th European Symposium on Biomedical Engineering*, Patras, Greece, 7-9 July 2006.
- [C44] G. Polychronaki, J. Stoitsis, G. Tsirogiannis, G. Giannakakis, A. Psegiannakis, S. Gatzonis, A. Chatzis, A. Siatouni, M. Stefanatou, N. Georgakoulis, M. Papathanasiou, M. Remoundou, E. Aggelopoulos, C. Baltogiannis, P. Sdrolias, E. Singounas, D. Sakas, K. Nikita. Design and development of a web based database system for the management and analysis of epileptic patients data- epilepsy database epilda. In *7th European Congress on Epileptology, EPILEPSIA 47*, page 67 Suppl. 3, Helsinki, Finland, 2-6 July 2006.
- [C45] Γ. Τσιρογιάννης, Γ. Γιαννακάκης, Γ.Σ. Πολυχρονάκη, Γ. Στοΐτσος, Α. Ψεγιαννάκης, Σ. Γκατζώνης, Α. Χατζής, Α. Σιατούνη, Μ. Στεφανάτου, Ν. Γεωργακούλιας, Μ. Παπαθανασίου, Μ.

Ρεμούδου, Χ. Μπαλτογιάννης, Π. Σδρόλιας, Η. Αγγελόπουλος, Ε. Συγγούνας, Δ. Σακάς, Κ. Σ. Νικήτα. Παρουσίαση της Δομής και της Λειτουργικότητας Διαδικτυακής Βάσης Διαχείρισης και Ανάλυσης Δεδομένων Ασθενών με Επιληψία - epilepsy database epilda-. In 20^ο Πανελλήνιο Συνέδριο Ελλήνων Νευρολόγων, Λάρισα, 16-19 Μαρτίου 2006.

Theses

- [T1] G. Giannakakis. Development of Electroencephalographic Analysis Methods with the use of Connectivity Models and Entropy Measures (in Greek). Phd thesis, School of Medicine, University of Patras - School of Electrical and Computer Engineering, National Technical University of Athens, 2009.
- [T2] G. Giannakakis. Electroencephalographic Signal Analysis with Applications in Epilepsy and Learning Difficulties (in Greek). M.sc. thesis, School of Medicine, University of Patras - School of Electrical and Computer Engineering, National Technical University of Athens, 2005.
- [T3] G. Giannakakis. Development of psychological diseases diagnosis support system with the use of event related potentials (in Greek). Diploma thesis, School of Electrical and Computer Engineering, National Technical University of Athens, 2003.

Research Impact

Citations: 1702

h-index : 22

i10-index: 32

g-index : 41

hl,norm : 9

hl,annual: 0.50

Google scholar profile <https://scholar.google.gr/citations?user=AR8VwAMAAAAJ>

Publication	Journal	Impact Factor
J13	IEEE Transactions on Affective Computing	13.990
J10	IEEE Reviews in Biomedical Engineering	7.073
J15	IEEE Transactions on Multimedia	5.452
J21	Progress Neuropsychopharmacology Biological Psychiatry	4.315
J6	Neurotoxicology	4.294
J14	Computer Methods and Programs in Biomedicine	3.632
J2	Healthcare	3.160
J16	Biomedical Signal Processing and Control	2.943
J3, J4, J5	Children	2.863
J18	Computer Vision and Image Understanding	2.645
J8	Pattern Analysis and Applications	2.580
J20	Behavioral and Brain Functions	2.457
J17	Microelectronic Engineering	1.654
J22	Neuroreport	1.266
J1	Cureus	1.204
J19	Journal of Psycholinguistic Research	0.659

Honours and awards

- 2023 Featured article in the IEEE Reviews in Biomedical Engineering Journal for the publication [J10]
- 2021 Best Paper Award in the Signals Journal for the 2021 for the publication [J11]
- 2021 Best Abstract Award in the SNMMI 2021 conference for the publication [C5]
- 2020 Citations award (amongst top 20 most-cited articles in the Biomedical Signal Processing and Control journal) for the publication [J16]

- 2017-2019 Post-Doctoral research grant by the Greek State scholarship (2 years) through the action entitled “Reinforcement of Postdoctoral Researchers”
- 2008 IEEE IST honour for outstanding organization of the IST2008 conference
- 2007 Thomaidio Award for the Progress of Arts and Sciences for the publication [C43]
- 2005 Thomaidio Award for the Progress of Arts and Sciences for the publication [J22]
- 2003 Award for the best NTUA interdisciplinary undergraduate thesis of the year 2003 from Thomaidio Foundation

Organizational Activities

Chair of special session, IEEE International Conference on Bioinformatics and BioEngineering 2019 (BIBE2019)

Member of organizing committee of IEEE International Conference on Imaging Systems and Techniques 2008 (Distinguished organization honor)

Member of organizing committee of IEEE 8th International Conference on Bioinformatics and BioEngineering 2008

Charter member of the cultural union Sampajana, Organization of the 1st Sampajana Jazz Festival, Chania, 26-29 June 2012

Member of organizing committee 8th International Conference on the Foundations of Digital Games, Chania, 14-17 May 2013

Scientific Activities

International Program/Technical Committee member

11th IEEE International Conference on Affective Computing and Intelligent Interaction (ACII 2023)

22nd IEEE International Conference on Bioinformatics and BioEngineering 2022 (BIBE2022)

10th IEEE International Conference on Affective Computing and Intelligent Interaction (ACII 2022)

16th IEEE International Conference on Imaging Systems and Techniques 2022 (IST2022)

15th IEEE International Conference on Imaging Systems and Techniques 2021 (IST2021)

20th IEEE International Conference on Bioinformatics and BioEngineering 2020 (BIBE2020)

19th IEEE International Conference on Bioinformatics and BioEngineering 2019 (BIBE2019)

Member of the Greek Institute of Stress Biology and Medicine (ISBM)

Certified expert of the Registry of the Hellenic Foundation for Research and Innovation (HFRI) (HFRI ID: HFRI-2020-05310)

Certified reviewer of the General Secretariat for Research and Innovation (GSRI) (approval number: 211946)

Editor

Guest editor of the special Issue on “Methods and Applications in Neuroimaging”, Frontiers in Psychiatry, 2022

Member of the editorial board of the MDPI Signals Journal, 2020

Guest editor of the special Issue on “Biosignals Processing and Analysis in Biomedicine”, MDPI Signals Journal, 2020

Area editor of the EAI Endorsed Transactions on Pervasive Health and Technology, 2020

Reviewer

- Journals
- IEEE Transactions on Affective Computing
 - IEEE Journal of Biomedical and Health Informatics
 - Elsevier Biomedical Signal Processing and Control
 - Elsevier Computer Methods and Programs in Biomedicine
 - IEEE Transactions on Information Technology in Biomedicine (TITB)
 - IEEE Transactions on Computational Intelligence and AI in Games
 - Elsevier European Journal of Seizure

Epilepsia
PLOS One
MDPI Signals
MDPI Processes
Experimental and Therapeutic Medicine

Conferences IEEE Engineering in Medicine and Biology Conference (EMBC)
IEEE International Conference on Affective Computing and Intelligent Interaction (ACII)
IEEE International Conference on Bioinformatics and Bioengineering (BIBE)
ACM International Conference on Multimodal Interaction (ICMI)
IEEE International Conference on Signal and Image Processing Applications (ICSIPA)
IEEE International Symposium on Computer-Based Medical Systems (CBMS)
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) (2023)
EAI International Conference on Wireless Mobile Communication and Healthcare

Scientific - Professional Societies

IEEE Member (Engineering in Medicine and Biology, Signal Processing, Affective Computing societies)
Member of the Technical Chamber of Greece
Member of Greek Company of Computer Scientists and Informatics
Educator certification from National Center of Certification
Member of the Chania Developers group

Personal Interests

Theatre Member of NTUA theatre team
2004: «Rosencrantz and Guildenstern are dead» by Tom Stoppard
2005: «Bremer Freiheit» by R. Fassbinder
2006: «Look at them» by M. Pontikas
2007: «Archangels Don't Play Pinball» by Dario Fo

Cinema 2012: Supporting actor in the film «The Two Faces of January» by Hossein Amini
2016: Supporting actor in the short film «Loca» by Maria Papadaki

Music Accordion

Athletics Table tennis, Chess

Other

Car and motorcycle driver license

References

Available upon request