

Manolis Tsiknakis, Ph.D.

*Curriculum Vitae*

*November 2021*

# Manolis Tsiknakis, Ph.D.

**Born:** March 10, 1959

**Citizenship:** Greek

**Marital Status:** Married, 2 children

## Hellenic Mediterranean University Address

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## FORTH Address

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## Education

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|-----------|---|
| 1985-1989 | Ph.D. in Signal Processing and Intelligent Systems, University of Bradford, UK.<br><b>Title of Thesis:</b> <i>An Intelligent Electromagnetic Flowmeter Based on Novel Excitation Waveforms and Advanced Signal Processing</i> |
| 1983-1984 | Master of Science (M.Sc.) in Microprocessor Engineering, School of Electric and Electronic Engineering, University of Bradford, UK.<br><b>Title of Master Thesis:</b> <i>A Disk Drive Controller for the VME bus</i>          |
| 1979-1983 | Batchelor of Engineering (B.Eng.) in Electric and Electronic Engineering, University of Bradford, UK.   |

## Research Interests

My current research interests include biomedical informatics and engineering; trustworthy AI-based solutions for healthcare; Semantic health data integration; ubiquitous sensor-based human behaviour modelling, activity and context recognition; affective computing, and smart eHealth and mHealth service platforms.

Prof Tsiknakis continues to show a strong interest on issues related to managing technological change and socio-economic aspects of e-business in general and eHealth/mHealth technologies and services in specific.

## Academic Positions

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|-----------------------|--|
| May 2019 – present    | Professor of Biomedical Informatics and eHealth, Department of Electrical and Computer Engineering, School of Engineering, Hellenic Mediterranean University           |
| April 2016 – May 2019 | Professor of Biomedical Informatics and eHealth, Department of Informatics Engineering, School of Engineering, Technological Educational Institute of Crete.           |
| Feb 2012 – Mar. 2016  | Associate Professor of Biomedical Informatics and eHealth, Department of Informatics Engineering, School of Engineering, Technological Educational Institute of Crete. |

## Research Appointments

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|-------------------|---|
| Feb 12 - present  | Affiliated Research Professor, Computational BioMedicine Laboratory, Institute of Computer Science (ICS), Foundation for Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece.  |
| Aug. 02 - Jan 12  | Principal Researcher - Institute of Computer Science, Foundation for Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece.  |
| Aug. 99 - July 02 | Associate Researcher - Institute of Computer Science, Foundation for Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece.  |
| Aug.92 - July 99  | Associate Scientist – Institute of Computer Science, Foundation for Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece.   |
| Feb.92 - Jul. 94  | Affiliated Research Scientist, Institute of Computer Science, Foundation for Research and Technology-Hellas, Heraklion, Crete, Greece.  |
| 1987 - 1990       | Research Fellow with academic responsibilities, School of Control Engineering, University of Bradford, Bradford, UK. Taught the subjects of <i>Digital Signal Processing, Measurement and Control, Computer Systems for Real Time Control</i> at the MSc course of Control Systems Engineering. |
| 1985 - 1987       | Research Assistant, School of Control Engineering, University of Bradford, Bradford, UK, funded by a grant from the British National Research Council.  |

## Teaching Positions and Experience

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|--------------------|---|
| May 2019 – present | Professor of Biomedical Informatics and eHealth Services, Hellenic Mediterranean University, Crete, Greece. Teaching responsibilities remain the same as previously at TEI Crete. |
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- Feb 2012 – May 2019 Professor of Biomedical Informatics and eHealth Services, Technological Educational Institute of Crete, Greece. Teaching the undergraduate courses in *Biomedical Informatics, eHealth and mHealth services, Bioinformatics and Modelling of Physiological Systems, Management of ICT projects as well as Innovation, Entrepreneurship and the Internet*. Prof Tsiknakis is also teaching the courses *Research Methods and Project Management* and *Advanced topics in Biomedical Informatics* at the postgraduate course on *Informatics Engineering* of TEI Crete.
- Feb 2003 – July 2007 Visiting Associate Professor, Department of Computer Science, University of Crete. Taught the courses on *Medical Informatics, Multimedia Clinical Information Systems and eHealth* at the postgraduate course of Computer Science.
- Feb 1997- July 2000 Visiting Associate Professor, Technological Institute of Heraklion, STEF. Taught the courses on *Programming and Medical Information Systems*.
- Oct 1987- Jun 1990 School of Control Engineering, University of Bradford, Bradford, UK. Taught the subjects of *Digital Signal Processing, Measurement and Control and Computer Systems for Real Time Control* at the MSc course of Control Systems Engineering.

## Scientific Positions

- 2020, 2021 Dr Tsiknakis was a member of the Organising Committee of the IEEE Biomedical and Health Informatics (BHI) and Body Sensor Networks (BSN) 2020 Conferences.
- 2018 – present Dr Tsiknakis is a member of the Editorial Board of the European Journal for Biomedical Informatics (<https://www.ejbi.org/editorial-board.html>)
- 2016 – present Dr Tsiknakis is an Associate Editor of the *IEEE Journal of Biomedical and Health Informatics* (Impact Factor 2019 : 4.217)
- 2016 – present Dr Tsiknakis is a member of the Editorial Board of the *International Journal of Telemedicine and Applications* (<https://www.hindawi.com/journals/ijta/>)
- Nov. 2012 Chair of the evaluation panel for the project OpenPHACTS (An open, integrated and sustainable chemistry, biology and pharmacology knowledge resource for drug discovery), funded through the Innovative Medicine Initiative programme of the EU.
- 2010 Scientific Program co-chair, 10th IEEE International Conference on Information Technology and Applications in Biomedicine (ITAB 2010).
- 2010 Member of the Technical Program Committee for International ICST Conference on Wireless Mobile Communication and Healthcare (MobiHealth 2010).
- 2009 Program Committee member of the 9th *International Conference on Information Technology and Applications in Biomedicine, (ITAB 2009)*, Cyprus, 5-7 November 2009, (<http://www.cs.ucy.ac.cy/itab2009/committees.html>).
- 2009 Program Committee member of track Special Session S11: Intelligent Systems Design and Applications in the Health Domain of the *International Conference on Intelligent Systems Design and Applications 2009 (ISDA 09)*, Piza, Italy, 30 November – 2 December, (<http://cig.iet.unipi.it/isda09/>).
- 2009 Program Committee member of the International conference *IADIS e-Health 2009 (EH 2009)*, Algarve, Portugal, 21-23 June 2009, (<http://www.ehealth-conf.org/topics.asp>).

- 2009 Member of the Scientific Committee of the International Educational Meeting Biomed Grid School 2009, Como, Italy 11-17 May 2009, (<http://www.biomedgrid.it>).
- 2008 - 2014 Member of the Editorial Board of the scientific journal (open access) *The Open Medical Informatics Journal* (<http://www.bentham.org/open/tominfo/EBM.htm>)
- 2008 - 2009 Member of the Editorial Advisory Board of the Book *Virtual Communities of Practice and Social Interactive Technologies: Lifecycle and Workflow Analysis*, D. Akoumianakis (Editor).
- 2008 Member of the International Review Board of the IADIS Multi Conference on Computer Science and Information Systems 2007 - "e-LEARNING - eL2008".
- 2007 Expert acting as the country correspondent in the "Exchange of Good Practices in eHealth" (Good eHealth - [www.good-ehealth.org](http://www.good-ehealth.org)) carried out by Deloitte (Belgium) and Empirica (Germany) for the European Commission, DG INFSO and Media.
- 2007 Member of the Program Committee of the *European Conference on eHealth (ECEH07)*, Oldenburg, Germany, October 11 - 12, 2007.
- 2007 Member of the International Review Board of the *International Conference on Health Information Technology (ICHIT07)*, Berlin, 12-15 June 2007.
- 2007 Member of the International Review Board of the IADIS Multi Conference on Computer Science and Information Systems 2007 - "e-LEARNING - eL2007".
- 2006 Member of the Program Committee of the *European Conference on eHealth (ECEH06)*, Fribourg, Switzerland on October 12-13 2006.
- 2006 Member of the Technical Program Committee of the *IEEE Information Technologies and Applications in Biomedicine 2006 International Conference*, Ioannina, Greece, 26-28 Oct. 2006.
- 2006 Member of the Advisory Board of the *eHealth 2006 High Level Conference*, Malaga, 10-12 May 2006.
- 2003 - 2006 Member of the Programme Committee, HealthGrid Conference, 2003, 2004, 2005, 2006
- 2005 Member of the Scientific Committee of the *18th IEEE Symposium on Computer-Based Medical Systems (IEEE CBMS 2005)*, June 23-24, 2005, Dublin, Ireland.
- 2002 Member of the Programme Committee of the Tenth International Symposium on *Health Information Management Research (iSHIMR2002)*.

## Advisory activities

- 2017 - Elected member and Secretary of the Research and Innovation Council of the Regional Government of Crete, an advisory committee to the Regional Government of Crete on issues related to research and innovation. (<https://www.crete.gov.gr/category/enimerosi/programmata-erga/perifereiako-symvoylio-ereynas-amp-kainotomias-kritis-psek-k/>)
- 2010 - 2013 Chair of the Scientific Advisory Committee of the project EHR4CR, funded by the Innovative Medicine Initiative (IMI) of the EU.
- 2011 – 2013 Member of the Expert's Advisory Committee to the Greek Ministry of eGovernment. Area of expertise eHealth.
- 2010 - 2012 Member of the Scientific Advisory Board of the EC FP7 POKEMON Large Collaborative project entitled "Point of Care Monitoring and Diagnostics for Autoimmune Diseases".

2006 - 2010 Member of the Scientific Advisory Board of the EC FP6 *SmartHEALTH* Integrated Project entitled “*Smart Integrated Biodiagnostic Systems for Healthcare*”.

## **Reviewer and Evaluator Assignments**

Dr Tsiknakis has been and continues to be a regular reviewer for a number of scientific journals, such as

- IEEE Journal on Affective Computing
- IEEE Journal of Biomedical and Health Informatics (previous known as Transactions on Information Technology in Biomedicine)
- Sensors, Elsevier
- International Journal of Biomedical Informatics
- International Journal of Medical Informatics
- IEEE Communications Magazine
- IEEE Transactions on Biomedical Engineering
- BMC Medical Informatics and Decision Making
- Computer Methods and Programs in Biomedicine
- Open Medical Informatics Journal
- The International Journal of Technological Innovation, Entrepreneurship and Technology Management

Dr Tsiknakis is also acting as a regular reviewer for a number of international conferences, such as:

- World Congress of Medical Informatics (Medinfo)
- Medical Informatics in Europe (MIE) conference
- IEEE Engineering in Medicine and Biology (IEEE EMBC) International Conference
- IEEE Conference on Biomedical and Health Informatics
- European Conference on eHealth (ECEH)
- IADIS International Conference on eHealth (IADIS eHealth)

Dr Tsiknakis has also acted repeatedly as an evaluator for research proposals for the General Secretariat for Research and Technology of Greece, the Irish Health Research Board (2005-2009).

## **Administrative Positions**

2021 – present	Vice-president of the Bioethics Committee of FORTH.
2019 – present	Head of the Laboratory of Applied and Interactive Computing, Dep. of Electrical and Computer Engineering, Hellenic Mediterranean University, Crete, Greece.
May 2013 – Dec. 2017	Vice Rector for Research and Infrastructure Development, Technological Educational Institute of Crete.
Jan. – May 2013	Head of Department, Applied Informatics and Multimedia, Technological Educational Institute of Crete.
May 2012 – 2013	Member of the Managing Committee of the Postgraduate Course in Applied Informatics and Multimedia, Department of Applied Informatics and Multimedia, TEI Crete.
Feb. 2012 – 2018	Head of the Biomedical Informatics and eHealth Laboratory, Department of Applied Informatics and Multimedia, Technological Educational Institute of Crete.
1995 - 2005	Coordinator of the Center for Medical Informatics and Health Telematics

Applications (a multidisciplinary group of approximately 35 researchers, technical and support staff), Institute of Computer Science, FORTH. My responsibilities involved, among others, establishing, participating in and managing joint research projects between industry and academia, as well as the day-to-day management of all activities of the Center.

## Organisation of Conferences and Scientific Workshops

- 2021 Dr Tsiknakis was the organiser (jointly with Prof. Prof. Karim Lekadir, Universitat de Barcelona, Spain, Prof. Luis Martí-Bonmatí, La Fe University, Spain and Dr Gianna Tsakou, Maggioli S.P.A., Italy) of the Scientific Workshop entitled “*Big data and artificial intelligence in cancer imaging*” that took place during the IEEE BHI-BSN 2021 conference ([https://www.bhi-bsn-2021.org/?page\\_id=3346](https://www.bhi-bsn-2021.org/?page_id=3346))
- 2021 Dr Tsiknakis was the organise (jointly with Dr N. Tachos) of the Special Session on “*Sensor-based behavioral informatics in support of Health Management and Care*” that took place during the IEEE BHI-BSN 2021 conference ([https://www.bhi-bsn-2021.org/?page\\_id=3212](https://www.bhi-bsn-2021.org/?page_id=3212))
- 2019 Dr Tsiknakis was the General Chair of the IEEE Bioinformatics and Bioengineering 2019 Conference, Athens 28-30 October 2019 (<https://bibe2019.ics.forth.gr/>)
- 2017 Dr Tsiknakis was the organiser of a Special Session on “Cancer Informatics” during the BHI-2017 International Conference on Biomedical and Health Informatics, Las Vegas, US.
- 2013 Organiser of a Special Session on “The Digital Patient concept: Vision and Early Demonstrations”, 13th IEEE International Conference on BioInformatics and BioEngineering, November 2013, Chania, Crete, Greece.
- 2013 Co-organiser of a Special Session on ““Computational solutions to large-scale data management and analysis in translational and personalized medicine” at the 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC’13), Osaka, Japan, July 2013.
- 2012 Dr Tsiknakis was the organiser of the Special Session on “*Computational solutions to large-scale data management and analysis in translational, personalized and predictive medicine*”, 12th IEEE International Conference on BioInformatics and BioEngineering (BIBE 2012), Cyprus, Nov 2012.
- 2010 Dr Tsiknakis was the organiser of the Special Session on “*Integrated ICT and post-genomic approaches in neurological disorders*”, organised as part of the IEEE International Conference on Information Technology and Applications in Biomedicine (ITAB 2010), Corfu, Greece.
- 2008 Dr Tsiknakis is the co-chair of the scientific session entitled “*Knowledge Discovery and Decision Support Systems in Health Information Systems*”, organised as part of the International Conference on Health Informatics (HEALTHINF 2008), 28-31 January 2008, Madeira, Portugal.
- 2006 Dr Tsiknakis was the Programme Chair of the Scientific Workshop on “*ICT technologies for Cancer research and management in the post-genomic era*”, organised as a pre-conference workshop during the IEEE Information Technology in Biomedicine (ITAB) 06 Conference, Ioannina, Greece, Oct 2006.
- 2006 Dr Tsiknakis was the organiser and chair of the Scientific workshop on “*ICT challenges in advancing clinico-genomic research: multilevel data integration and knowledge discovery issues*”, organised by the ERCIM Working Group on

Biomedical Informatics and the ACGT Integrated Project, Budapest, May 2006.

2003 Dr Tsiknakis was the Chair of the Organising Committee of the 1<sup>st</sup> Regional Conference “*Innovation and Health in the 21<sup>st</sup> Century*”, Heraklion, Crete, Greece, 12-13 December 2003.

2000 Dr Tsiknakis was the Chair of the international Workshop entitled “*Next Generation Regional Health and Social Care Networks: challenges and opportunities*”, Barcelona, 30 Nov – 1 Dec 2000.

## Other National and International Activities

November 2021 Reviewer for the midterm review of the project “*Development of deep learning algorithms coupled with multiscale modeling for the early prediction of the breast cancer occurrence*”, funded within the Competitiveness, Entrepreneurship and Innovation framework of the Greek Ministry of Development and Investment.

November 2021 Reviewer for the mid-term review of the *BIOMAP project (Biomarkers in Atopic Dermatitis and Psoriasis)* for the Innovative Medicines Initiative 2 Joint Undertaking (IMI2).

October 2021 Evaluator of proposal submitted in the call for the “*Experimental Demonstrative Project Call (PED 2021)*” of the Executive Agency for Higher Education Research Development and Innovation Funding (UEFISCDI) of Romania.

May 2020 Evaluator of proposal submitted in the “*Information and Analysis Systems*” call of the Russian Science Foundation (RSF).

Spring 2020 Evaluator of research proposals submitted to the Hellenic Foundation for Research and Innovation.

November 2019 Evaluator of the second stage proposal submitted in response to the call for proposals of the Innovative Medicines Initiative 2 Joint Undertaking (IMI2) (H2020-JTI-IMI2-2017-17- stage two).

September 2019 Evaluator of the proposals submitted in response to the call for proposals of the Innovative Medicines Initiative 2 Joint Undertaking (IMI2) (H2020-JTI-IMI2-2017-18-stage one).

March 2018 Evaluator for proposals submitted to the Research Council of KU Leuven.

March 2018 Evaluator of the proposals submitted in response to the call for proposals of the Innovative Medicines Initiative 2 Joint Undertaking (IMI2) (H2020-JTI-IMI2-2017-13-two-stage).

December 2017 Evaluator of the proposals submitted in response to the call for proposals of the Innovative Medicines Initiative 2 Joint Undertaking (IMI2) (H2020-JTI-IMI2-2016-10-two-stage).

September 2017 Reviewer of research proposals submitted in the call for “*User-centred health technology and digital health services review panel*” of the Academy of Finland.

2015 Reviewer of the eTRIKS (<https://www.etriks.org/>) project submitted within the Knowledge management pillar of the Innovative Medicine Initiative (IMI) programme of the EU.

2014 Reviewer of the project proposals submitted within the Knowledge management pillar of the Innovative Medicine Initiative (IMI) programme of the EU.



- 2013 Evaluator of the project proposals submitted within the Knowledge management pillar of the Innovative Medicine Initiative (IMI) programme of the EU.
- 2012 Member of the Evaluation Committee for the 2nd National Competition on “*Applied research and Innovation*”, organised by the Hellenic Federation of Enterprises.
- 2012 – 2013 External evaluation expert for the Ministry of education and science of the Russian Federation within the framework of the initiative "On measures designed to attract the world's leading scientists to Russian institutions of higher learning".
- 2012 Evaluator of competitive R&D proposals submitted in the context of the IMI (Innovative Medicine Initiative) programme of the EU.
- 2012 External expert for evaluating competitive project proposals for the Luxembourg National Research Fund (FNR) within the framework of its multi-annual research programme CORE 2012.
- 2011 External international expert for evaluation of competitive project proposals for the French National Research Agency (ANR) in the context of its initiative “Investissements d’Avenir” or “Investments for the future” (subdomain Bioinformatics).
- 2011 Evaluator of the project proposals submitted within the Knowledge management pillar of the Innovative Medicine Initiative (IMI) programme of the EU.
- 2011 – 2012 Member of the “National Task Force and Coordination Committee (ΟΔΙΣΣΕΕ)” in the domain of eHealth and Social Security of the Ministry of Electronic Governance.
- 2011 Evaluator of R&D proposals for the Luxembourg National Research Fund (FNR) within the framework of its multi-annual research programme CORE 2011.
- 2010 Evaluator of competitive R&D proposals submitted in the context of the IMI (Innovative Medicine Initiative) programme of the EU.
- 2010 – 2012 Member of the Peer-Review Team for the FP7 funded project FP7-ICT-216088 POCEMON “Point-Of\_Care MONitoring and Diagnostics for Autoimmune Diseases”.
- 2004 – 2008 Chair of the Biomedical Informatics Working Group of the European Research Consortium on Informatics and Mathematics (ERCIM, [www.ercim.org](http://www.ercim.org)).
- 2003 – 2010 Member of the Executive Committee of the HL7 - Hellas, whose aim is to act as a catalyst for the promotion and use of the HL7 standard in the Medical Informatics domain in Greece.
- 2003 – 2010 Member of the Board of the European Health Telematics Association (EHTEL), a non-for-profit European organization with the purpose of promoting eHealth service uptake in Europe.
- 2002 – 2003 Chair of the Health Information Technology Working Group of the European Research Consortium on Informatics and Mathematics (ERCIM, [www.ercim.org](http://www.ercim.org)).
- 2002 External Expert to the National Information Society Coordination Committee with the purpose of evaluating the ICT Strategy of the Greek Ministry of Health And Social Care.
- 2000 – 2005 National Representative for the EUMEDIS (Euro-Mediterranean Information Society) Programme of the European Community.
- 2001 – 2002 Member of the Task Force for the development of an Information Society Strategy for the Region of Crete.

- 1997 – 1998            Evaluator of competitive R&D proposals for the General Secretariat for research and Technology, Ministry of Development, Greece.
- 1986 – 1989            Consultant to several industrial companies in the instrumentation sector in the UK.

## Professional Societies

- Member of the IEEE (Institute of Electrical and Electronics Engineers) since 1993
- Member of the IEEE – EMBS (Engineering in Medicine and Biology Society) since 1995.
- Member of the Institute of Measurement and Instrumentation since 1986.

## Awards and Honors

1. The paper “*A Deep Learning-based Cropping Technique to Improve Segmentation of Prostate’s Peripheral Zone*” by E. Mylona, et al., received the **best student paper award** at the IEEE Bioinformatics and Bioengineering 2021 Conference.
2. The paper “*Donor’s support tool: Enabling informed secondary use of patient’s biomaterial and personal data*” (doi:[10.1016/j.ijmedinf.2016.10.019](https://doi.org/10.1016/j.ijmedinf.2016.10.019)) by H. Kondylakis, et al. has been **selected** for inclusion, as one of the best articles from the literature, in the **IMIA Yearbook of Medical Informatics** published in 2017.
3. The paper “*A kouroubali, D. Katehakis, A Berler, M. Tsiknakis, Electronic Health Record Systems: Luxury or Need, 14<sup>th</sup> National Conference on Management of Health Services, Athens, 12-13 October 2012*”, received the **best paper award**.
4. Project EMISPHER (Contract No. EUMEDIS 110) received the **best project award**, during the ATVN-EU-GP Conference, 1-3 December 2005 in Poland. The EMISPHER Project was awarded the **first prize** in the “e-Health” category of contest of “Good Practice Projects”; (<http://www.atvn-eu-gp.pl/contest/index.htm>)
5. The paper “*Innovative Practices in the Emergency Medical Services in Crete,*” by A. Kouroubali, D. Vourvahakis, M. Tsiknakis received the **best paper award** at the iSHMIR 05 Conference, Thessaloniki, Greece, Sept 2005. ([www.seerc.info/ishimr2005/index.html](http://www.seerc.info/ishimr2005/index.html)).
6. The research study carried out by Dr Tsiknakis and members of the eHealth laboratory of FORTH-ICS in collaboration with CNR, Italy entitled : “*Predicting the End of an Atrial Fibrillation Episode*” **received three awards** in the international competition (<http://www.physionet.org/challenge/2004/>) that took place on 19-22 September 2004 within the scope of the International Annual Congress on Computers in Cardiology, Chicago, USA.
7. Dr Tsiknakis received the **2003 FORTH’s award** for best applied research. This is an annual award given by FORTH to innovative research and technological achievements by its researchers in the domains of basic and applied research.
8. The Regional Health Information Network of Crete “*HYGEIAnet*” was selected a finalist (among more than 180 contenders) at the ministerial conference and exhibition eHealth 2003, that took place in Brussels on May 2003 and received the **second prize** in the Regional Health Information networks category.
9. The Poster “*ECG in Your Hands: A Multi-Vendor ECG Viewer for Personal Digital Assistants*” by F. Chiarugi, M. Spanakis, P.J. Lees, C. Chronaki, M. Tsiknakis and SC Orphanoudakis received the **best poster award** at the Computers in Cardiology 2003 Conference that took place in Chalkidiki, Greece, 21-24 September 2003.

## Research Grants (Hellenic Mediterranean University)

- ➔ “*CardioCare – An interdisciplinary approach for the management of the elderly multimorbid patient with breast cancer therapy induced cardiac toxicity*”. Collaborative R&D project funded under the H2020 programme of the European Commission, SC1-BHC-24-2020: Healthcare interventions for the management of the elderly multimorbid patient, (01/07/2021-31/06/2025), HMU Budget: 307.250 Euro. Prof Tsiknakis is HMU’s principal investigator.
- ➔ “*Smart Insole - Ένας καινοτόμος φορετός αισθητήρας για συνεχή ανάλυση και αξιολόγηση της ανθρώπινης βόδισης (A novel wearable sensor for continuous human gait analysis and evaluation)*”. R&D project funded under the call “Ερευνώ – Δημιουργώ – Καινοτομώ” of the General Secretariat for Research and Technology Hellas (07/09/2018-6/09/2021). HMU’s Budget: 213.654 Euro. Prof Tsiknakis is the project’s scientific coordinator and HMU’s principal investigator.
- ➔ “*HarmonicSS - HARMONization and integrative analysis of regional, national and international Cohorts on primary Sjögren’s Syndrome (pSS) towards improved stratification, treatment and health policy making*”. R&D project funded under the H2020 – Health, demographic change and well-being programme of the European Commission, TEI Crete’s (currently HMU) Budget: 215.000 Euro. Prof Tsiknakis is HMU’s principal investigator.
- ➔ “*CHIC - Computational Horizons in Cancer (CHIC): Developing Meta- and Hyper-Multiscale Models and Repositories for In Silico Oncology*”. Large Collaborative Research Project funded by the FP7-ICT programme of the European Commission (2013-2017). HMU’s Budget: 128.000 Euro. Prof Tsiknakis is HMU’s principal investigator.
- ➔ “*MyHealthAvatar - Demonstration of a 4D Digital Avatar Representation for Access to Long-Term Health Status Information*”. Small Collaborative Research Project (STREP) funded by the FP7-ICT programme of the European Commission (2013-2016). HMU’s Budget: 106.000 Euro. Prof Tsiknakis is HMU’s principal investigator.
- ➔ “*CONTRACT - Consent in a Trial and Care environment*”. Coordination and support action funded by the FP7-Health programme of the European Commission (2010-2012). HMU ‘s Budget: 98.000 Euro. Prof Tsiknakis is HMU’s principal investigator.
- ➔ “*Eurocancercomms - Establishing an efficient network for cancer communication in Europe*”. Coordination and support action, funded by the FP7-SiS programme of the European Commission (2011-2012). HMU’s Budget: 154.000 Euro. Prof Tsiknakis is HMU’s co-principal investigator together with Prof Akoumianakis.

## Research Grants (FORTH)

- ➔ “*ODIN - Leveraging AI based technology to transform the future of health care delivery in Leading Hospitals in Europe*”. Collaborative Research project funded by the H2020 programme of the European Commission, DT-ICT-12-2020 - AI for the smart hospital of the future, (01/03/2021-28/2/2025). Dr Tsiknakis is FORTH’s PI (jointly with Prof D. Fotiadis).
- ➔ “*LETHE (λήθη) – A personalized prediction and intervention model for early detection and reduction of risk factors causing dementia, based on AI and distributed Machine Learning*”. Collaborative Research project funded by the H2020 programme of the European Commission, SC1-DTH-02-2020: Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies, (01/01/2021-31/12/2024). Dr Tsiknakis is FORTH’s PI (jointly with Prof D. Fotiadis).
- ➔ “*ProCancer-I - An AI Platform integrating imaging data and models, supporting precision care through prostate cancer’s continuum*”. Collaborative Research project funded by the H2020 programme of the European Commission, H2020- DT-TDS-05-2020 – AI for Health Imaging (01/10/2020-30/9/2024). Dr Tsiknakis is the project’s **Coordinator**.

- ➔ *“HealthSonar: A system for monitoring sleep and healthy living with low energy radio technology”*. R&D project funded under the call “Research-Create-Innovate” of the General Secretariat for Research and Technology Hellas (07/07/2020-6/12/2022). Prof Tsiknakis is the project’s **Coordinator**.
- ➔ *“Loock-Me - An intelligent, deep learning enhanced multimedia platform for automated indexing, storage, searching and retrieval of locations to filming (shoot)”*. R&D project funded under the call “Research-Create-Innovate” of the General Secretariat for Research and Technology Hellas (07/07/2020-6/12/2022). Prof Tsiknakis is the project’s **Coordinator**.
- ➔ *“SeeFar - Smart glasses for multifacEted visual loss mitigation and chronic disEase prevention indicator for healthier, saFer, and more productive workplAce foR ageing population”*. Collaborative Research project funded by the H2020 programme of the European Commission, H2020-SC1-DTH-2018-1 - SC1-DTH-03-2018 (01/01/2019-31/12/2021). Dr Tsiknakis is FORTH’s co-principal investigator (together with Prof. D.I. Fotiadis).
- ➔ *“iManageCancer - Empowering patients and strengthening self-management in cancer diseases”*. Collaborative Research project funded by the H2020 programme of the European Commission, PHC-26-2014-643529, (01/02/2015-31/7/2018). Dr Tsiknakis is FORTH’s PI (jointly with Prof. K. Marias).
- ➔ *“Semeoticons - SEMEiotic Oriented Technology for Individual’s CardiOmetabolic risk self-assessmeNt and Self-monitoring”*. Small collaborative Research Project funded by the FP7-ICT programme of the European Commission, FP7-ICT-2013-10-611516, (2012-2016). Dr Tsiknakis is a principal investigator.
- ➔ *“PredictES - An Integrated wearable platform predicting Epileptic Seizures and novel neurofeedback ap-proaches in support of personalized patient management”*. National Strategic Reference Framework (NSRF) 2007-2013, Cooperation 2011 - 11SYN-10-998, (9/2013 – 10/2015). Dr Tsiknakis is the project’s **Coordinator**.
- ➔ *“EURECA”*, Large Collaborative Research Project funded by the FP7-ICT programme of the European Commission (2/2012-7/2015). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ *“p-medicine”*, Large Collaborative Research Project funded by the FP7-ICT programme of the European Commission (2/2011-7/2015). Dr Tsiknakis is a member of the Project’s Management Board, a member of the Technical Coordination Committee and FORTH’s PI.
- ➔ *“ENNCA”*, Network of Excellence funded by the FP7-Health programme of the European Commission (2011-2015). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ *“INTEGRATE”*, Small Collaborative Research Project funded by the FP7-ICT programme of the European Commission (2011-2014). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ *“Gen2Phen”*, Large Collaborative Research Project funded by the FP7-Health programme of the European Commission (2008-2012). Dr Tsiknakis is a principal investigator.
- ➔ *“ACGT”*, Integrated Project, funded by the Information Society Technologies Programme of the European Commission (2006-2010). Dr Tsiknakis is the **Coordinator** of the Project.
- ➔ *“LOCCANDIA”*, Specific Targeted Research Project (STREP), funded by the IST programme of the European Commission. Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ *“HARTFAID”*, Specific Targeted Research Project (STREP), Funded by the Information Society Technologies Programme of the European Commission (2004-2006). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ *“SYMBIOMATICS”*, Specific Support Action (SSA) in the domain of Biomedical Informatics, Funded by the Information Society Technologies Programme of the European Commission (2004-2006). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.

- ➔ “*HEALTHWARE*”, Integrated Project, Funded by the Space and Satellite Programme of the European Commission (2004-2006). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “*RURAL WINGS*”, Integrated Project, Funded by the Space and Satellite Programme of the European Commission (2004-2006). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “*eu-DOMAIN*”, Specific Targeted Research Project (STREP), Funded by the Information Society Technologies Programme of the European Commission (2004-2006). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “*TWISTER*”, Integrated Project, Funded by the Space and Satellite Programme of the European Commission (2004-2006). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “*INFOBIOMED*”, Network of Excellence, Funded by the Information Society Technologies Programme of the European Commission (2004-2006). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “*TWISTER*”, Integrated Project, Funded by the Satellite and Space Technologies Programme of the European Commission (2004-2006). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “*ADOL*”, Funded by the General Secretariat for Research and Technology, Ministry of Development (Programme ΕΠΑΝ), (2002 – 2004). Dr Tsiknakis is FORTH’s principal investigator.
- ➔ “*EMISPHER*”, Funded by the Ten-Telecom Programme of the European Commission (2001-2004). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “*CORAS*”, Funded by the Information Society Technologies (IST) Programme of the European Commission (2001-2003). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “*PICNIC*”, Funded by the Information Society Technologies (IST) Programme of the European Commission (2000-2003). Dr Tsiknakis is a member of the Project’s Management Board and the Technical Management Committee and FORTH’s principal investigator.
- ➔ “*JUST*”, Project Leader and Scientific Coordinator, Funded by the Information Society Technologies (IST) Programme of the European Commission (2000-2002). Dr Tsiknakis is the Project’s **Coordinator**.
- ➔ “BreastCancer”, Funded by the General Secretariat for Research and Technology, Ministry of Development (Programme ΠΕΝΕΔ), (1999 – 2001). Dr Tsiknakis is FORTH’s principal investigator.
- ➔ “Crete – Telematics Applications in Healthcare, Culture, and Public Administration”, Project Manager and Scientific Leader of the Health Telematics Applications, Funded by the Ministry of the National Economy of Greece in the framework of the INTERREG II Programme (1998-2000). Dr Tsiknakis is the Technical Coordinator of the Project.
- ➔ “TEMeTeN”, Towards a European Medical and Teleworking Network”, Project Leader and Scientific Leader of the Health Telematics Applications, Funded by the Regional Information Society Initiative of the European Commission (1997-1999). Dr Tsiknakis is the Project Administrative and Technical Coordinator.
- ➔ “INTERCARE”, Funded by the Telematics Applications Programme of the European Commission (1998-2000). Dr Tsiknakis is a member of the Project’s Management Board and the Technical Management Committee and FORTH’s principal investigator.
- ➔ “ATTRACT”, Funded by the Telematics Applications Programme of the European Commission (1998-2000). Dr Tsiknakis is a member of the Project’s Management Board and the Technical Management Committee and FORTH’s principal investigator.

- ➔ “RETRANSPLANT”, Funded by the Telematics Applications Programme of the European Commission (1998-2000). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.
- ➔ “TEN-TELEMED”, Funded by the TEN-TELECOM Programme of the European Commission (1998-1999). Dr Tsiknakis is a member of the Project’s Management Board and FORTH’s principal investigator.

### Research Grants (Bradford University)

- ➔ “Advanced Signal Processing Methods in Process Plant Monitoring”, School of Control Systems Engineering, University of Bradford, Bradford, U.K. Funded by the British National Research Council, Co-ordinator and principal investigator (1988 - 1989).
- ➔ “Digital signal processing in flow-measurement”, School of Control Systems Engineering, University of Bradford, Bradford, U.K. Funded by the British National Research Council, investigator (1985-1988).

### Industry and Other Grants (Helelnic Mediteranean University)

- ➔ “WeMP - Wellness Management Platform”, Industry contract for the design of a prototypical ambient assisted living platform, FORTHnet SA, 56.000 Euro (2015 – 2016).
- ➔ “MDSS - Multimedia Decision Support System”, Industry contract for the implementation of a clinical decision support system for stent positioning, SPIRIT SA, Budget: 40.000 Euro (2011-2012).

### Industry and Other Grants (ICS-FORTH)

- ➔ Integrated Regional Health Information Network of the 3<sup>rd</sup> Health System of Attica. Contract awarded by the Information Society S.A. following a public tender. FORTH’s Budget: 608.000 Euro (2005-2008).
- ➔ Integrated Regional Health Information Network of the Health System of Western Greece. Contract awarded by the Information Society S.A. following a public tender. FORTH’s Budget: 210.000 Euro (2005-2008).
- ➔ Integrated Regional Health Information Network of the Health System of North Aegean. Contract awarded by the Information Society S.A. following a public tender. FORTH’s Budget: 180.000 Euro (2005-2008).
- ➔ Technical *Consultancy and Systems Support Contracts* with the Hospitals of the Regional Health and Social System of Crete (2005 -2006). Budget: ~80.000 Euro
- ➔ Technical *Consultancy and Systems Support Contracts* with the Hospitals of the Regional Health and Social System of Crete (2004 -2005). Budget: ~100.000 Euro
- ➔ Technical *Consultancy and Systems Support Contracts* with the Hospitals of the Regional Health and Social System of Crete (2003 -2004). Budget: ~100.000 Euro
- ➔ Regional Health and Social Care System of South Aegean. *Development of an eHealth Network in the islands of Santorini, Thirasia, Folegandros, Sikinos and Anafi* (Aug. 2003 – Feb. 2004). Budget: 40.000 Euro
- ➔ South and East Belfast Health and Social Care Trust, *Installation of technology to support an Integrated Electronic Health Record* (March 2002 – Aug. 2003). Budget: 17.000 Euro
- ➔ HealthSystemsExpertease S.A. (HSX), Netherlands. *Development of an Integrated Hospital Information System* (May 2001- Dec. 2003). Budget: 415.000 Euro
- ➔ Shared Medical Systems (SMS) – Europe S.A.. *Localisation and customisation of SMS-Europe’s medical information systems for the Greek healthcare market* (1998 –2000). Budget: 70.000 Euro
- ➔ University Hospital of Heraklion. *Requirements analysis and design of an advanced networking infrastructure* (1996). Budget: 32.000 Euro

## Supervision of PhD Dissertations

1. Stefanos Gikas, A Pain Assessment Framework based on multimodal data and deep machine learning methods (in progress).
2. Roula Chatzaki, A multimodal approach for the assessment of mental stress based on the analysis of physiological signals (in progress).
3. Maria Evangelia Chatzimina, Conversational agents as a new diagnostic tool: a proof of concept study in the field of palliative care and depressive disorders (in progress).
4. An. Pampouchidou, Estimation of stress and depression based on visual information processing, University of Bourgogne (co-supervisor - <http://www.theses.fr/s198833>).
5. M. Pediaditis, *Vision-based human motion analysis in neurological disorders*, Technical University of Graz, 2014 (co-supervisor).
6. J. Arif, *A Low Power Excitation Drive for Intelligent Electromagnetic Flowmeters*, University of Bradford, Bradford, West Yorkshire, U.K., 1991.

Prof Tsiknakis has also experience of participation in PhD examining bodies. Specifically he has recently been a member of the following PhD examining juries.

1. Member of the PhD jury of Pantelis Natsiavas, *Novel methods to support Active Pharmacovigilance in the clinical environment, Active Pharmacovigilance in the context of a Learning Healthcare System*, Sorbonne Université, Dec. 2020.
2. Member of the PhD jury of S. Sfakianakis, *Exploration of disease-specific biomarkers in Cancer Research by integrating biological knowledge and high throughput data*, Technical University of Crete, 2016.
3. Member of the Ph.D. jury of M. Pediaditis, *Vision-based human motion analysis in neurological disorders*, Department of Biomedical Engineering, Technical University of Graz, Dec. 2014.
4. Member of the Ph.D. jury of Xia Zhao. The title of her PhD dissertation is "A linear logic approach to RESTful Web service modelling and composition", Department of Computer Science and Technology, University of Bedfordshire, Luton, UK, May 2013.
5. Member of the Ph.D. jury of Anna Hristoskova. The title of her PhD dissertation is "Design of semantic reasoning systems for management of next generation software services", Department of Information Technology (INTEC), Ghent University, Nov 2012.
6. Member of the Ph.D. jury of Samuli Niiranen. The title of his PhD thesis is "A Hybrid Model for the Application of Convergent ICT in Process-Specific Health Solutions", Digital Media Institute, Tampere University of Technology, 2010.

## Supervision of M.Sc. Dissertations

1. Stella Tsihlaki, Development of a Deep Learning Model for Dynamic Forecasting of Blood Glucose Level for Type 2 Diabetes Mellitus, Department of Electrical and Computer Engineering, Hellenic Mediterranean University, 2021
2. Vangelis Chaniotakis, A Scalable Data Science Platform for Healthcare and Precision Medicine Research, Department of Computer Science, University of Crete, Co-supervisor (jointly with Prof. D. Plexousakis), Feb 2021.
3. A. Makridaki, Continuous and Categorical Assessment of Depression Based on Low Level Features, Department of Informatics Engineering, HMU, May 2018
4. K. Vazakopoulou, Continuous and Categorical Assessment of Depression Based on High Level Visual Features, Department of Informatics Engineering, HMU, March 2018
5. E. Strataki, Wellness Management and Positive Psychology App for smartphone platforms, Department of Informatics Engineering, HMU, 2016.
6. A. Tzedakis, Exploring Eye Activity as an Indication of human emotions, October 2016.

7. X. Atsalaki, Pathway Analysis for ChIP-seq Data, Department of Informatics Engineering, HMU, October 2016.
8. E. Christinaki, Signal Processing Methods for the Estimation of Physiological Parameters from Optical Recordings, Department of Informatics Engineering, HMU, July 2026.
9. R. Chatzaki, EEG-based Brain Computer Interaction for persons with motor impairments, Department of Informatics Engineering, HMU, June 2016.
10. M. Ligerakis, «Design and implementation of an active electrodes based EEG device, suitable for use in Steady State Visual Evoked Potentials (SSVEP) studies and applications» (joint supervisor with V. Sakkalis), Department of Informatics Engineering, HMU, July 2015.
11. Th. Malliotakis, Human Activity recognition based on smartphones, Department of Informatics Engineering, HMU, June 2015.
12. P. Kanaki, A framework for the implementation of computer interpretable clinical guidelines, Department of Informatics Engineering, HMU, June 2015.
13. D. Kounalakis, Cloud architectures and technologies for biomedical applications: Experimental evaluation of hybrid models, Department of Informatics Engineering, HMU, Oct. 2014.
14. P. Sfakianaki, Semantic service discovery using natural language processing techniques, Department of Informatics Engineering, HMU, June 2014.
15. V. Papoutsidis, *A biomedical GRID infrastructure enabling high-performing data mining and knowledge extraction operations*, University of Crete at Heraklion, Greece, February 2006
16. S. Kaoukakis, *Design, development and comparison of alternatives architectural approaches of communication based on HL7 Standard*, Department of Computer Science, University of Crete at Heraklion, Greece, June 2004.
17. A. Kontos, *Mobile and wearable technologies in Healthcare: A case study*, Department of Computer Science, University of Crete at Heraklion, Greece, December 2003.
18. Th. Tzelepis, *Designing Electronic Health Record Systems based on the Archetype methodology*, Department of Computer Science, University of Crete at Heraklion, Greece, October 2003.
19. Ch. Dimou, *Design and development of an internet based medical collaboration platform based on XML*, Department of Computer Science, University of Crete at Heraklion, Greece, September 2003.
20. E. Makrogamvrakis, *Design and implementation of an ECG viewer for a mobile and handheld computing platform*, The University of Kent at Canterbury, Kent, U.K., Sept 2001 (external supervisor).
21. N. Daliadakis, *Integration and testing of an electronic Spirometer in a HomeCare Telemonitoring platform*, The University of Kent at Canterbury, Kent, U.K., Sept 2001 (external supervisor).
22. D. Anthoulakis, *Design and Development of a Human Computer Interaction Environment to the Integrated Electronic Health Record*, University of Aberdeen, Scotland, Sept 2001 (external supervisor).
23. C. Chatzaki, *Design and development of the trust infrastructure employing smart cryptographic cards and PKI in health telematics networks*, Department of Computer Science, University of Crete at Heraklion, Greece, September 2001. (jointly with Prof. S.C. Orphanoudakis).

## Supervision of Senior Theses

Prof. Tsiknakis has successfully supervised a large number of senior theses since becoming a member of the academic staff at the Hellenic Mediterranean University (previously Technological Educational Institute of Crete).

He has also, in the past, supervised several senior theses at the University of Crete and the University of Bradford.



## Publications

### Dissertations

1. M. Tsiknakis, *A Disk Drive Controller for the VME bus*, Master Thesis, School of Electric and Electronic Engineering, University of Bradford, Bradford, West Yorkshire, U.K., 1984.
2. M. Tsiknakis, *An Intelligent Electromagnetic Flowmeter Based on Novel Excitation Waveforms and Advanced Signal Processing*, Ph.D. Thesis, School of Control Systems Engineering, University of Bradford, Bradford, West Yorkshire, U.K., Dec. 1988.

### Key Note Speeches

1. M. Tsiknakis, *The European Cancer Informatics Landscape: Challenges for the biomedical informatics community*. The 8th IEEE International Conference on Bioinformatics and Bioengineering (BIBE 2008), Athens, Greece, 8-10 October 2008.

### Editorial Board of International Scientific Journals

- 2017 - Prof. Tsiknakis is an Associate Editor (<https://jbhi.embs.org/editorial-board/associate-editors/>) of the IEEE Journal in Biomedical and Health Informatics (*Impact Factor: 4.217*),
- 2018 - Prof. Tsiknakis is a member of the editorial board of the European Journal of Biomedical Informatics (<https://www.ejbi.org/editorial-board.html>), an official journal of the European Federation of Medical Informatics (EFMI)

### Editor of Special Issues in International Journals

1. Guest Editor, Special Issue on “*State-of-the-Art Sensors Technology in Greece 2020–2021*”, MPDI Sensors ([https://www.mdpi.com/journal/sensors/special\\_issues/In\\_Greece](https://www.mdpi.com/journal/sensors/special_issues/In_Greece)), Jan. 2021
2. Lead Guest Editor, Special Issue on “*Biomedical Informatics across the Cancer Continuum*”, M. Tsiknakis, N. Graf, K. Stamatopoulos, A. Bucur, IEEE Journal of Biomedical and Health Informatics, (<https://jbhi.embs.org/special-issues/>), May 31, 2018.
3. Guest Editor, Special issue on “*The Vision of Personally Managed Health Data: Barriers, Approaches and Roadmap for the Future*”, H. Kondylakis, K. Koumakis, M. Tsiknakis, S. Kiefer, Journal of Biomedical Informatics, (<https://www.journals.elsevier.com/journal-of-biomedical-informatics/call-for-papers/the-vision-of-personally-managed-health-data-barriers-approa>), September 30, 2018
4. Guest Editor, Special Issue on “*Advanced and Intelligent Technology for Dementia Care: Theory, Methods, and Applications*”, Po Yang, M. Tsiknakis, Li Da Xu, Wei Chen, IEEE Reviews in Biomedical Engineering, June 30, 2018
5. Guest Editor of the Special Issue on “*Computational solutions to large-scale data management and analysis in translational and personalized medicine*” of the IEEE Journal of Biomedical and Health Informatics (J-BHI) – formerly known as IEEE Transactions on Information Technology in Biomedicine, 2014.

### Papers in international journals (full-paper reviewed)

1. Karim Lekadira, Richard Osuala, Catherine Gallin, Noussair Lazrak, Kaisar Kushibar, Gianna Tsakou, Susanna Ausso, Leonor Cerda Alberich, Kostas Marias, Manolis Tsiknakis, Sara Colantonio, Nickolas Papanikolaou, Zohaib Salahuddin, Henry C Woodruff, Philippe Lambin,

- Luis Martí-Bonmati, FUTURE-AI: Guiding Principles and Consensus Recommendations for Trustworthy Artificial Intelligence in Medical Imaging, <https://arxiv.org/pdf/2109.09658.pdf>
2. Dimitrios G. Zaridis, Eugenia Mylona, Nikolaos S. Tachos, Kostas Marias, Nikolaos Papanikolaou, Manolis Tsiknakis and Dimitrios I. Fotiadis, A new smart-cropping pipeline for prostate segmentation using deep learning networks, [arXiv:2107.02476v2](https://arxiv.org/abs/2107.02476v2)
  3. C. Chatzaki, V. Skaramagkas, M. Tsiknakis, et al, The Smart-Insole Dataset: Gait analysis using wearable sensors with a focus on elderly and Parkinson's patients, *Sensors* 2021, 21(8), 2821; <https://doi.org/10.3390/s21082821>
  4. V. Skaramagkas, M. Tsiknakis, et al, Review of eye tracking metrics involved in emotional and cognitive processes, *IEEE Reviews in Biomedical Engineering*, 17 Mar 2021, DOI: [10.1109/rbme.2021.3066072](https://doi.org/10.1109/rbme.2021.3066072)
  5. H. Kondylakis, M Tsiknakis, R. Zwigelaar, et al, Status and Recommendations of Technological and Data-Driven Innovations in Cancer Care: Focus Group Study, *J Med Internet Res* 2020;22(12):e22034, DOI: [10.2196/22034](https://doi.org/10.2196/22034)
  6. H. Kondylakis, M. Tsiknakis, S. Kiefer, et al., Patient Empowerment for Cancer Patients through a Novel ICT Infrastructure, *Journal of Biomedical Informatics*, Volume 101, January 2020, 103342, <https://doi.org/10.1016/j.jbi.2019.103342>
  7. C. Chatzaki, A. Goules, S. De Vita, A. Zabotti, C. Delporte, M.S. Soyfoo, F. Barone, B.A. Fisher, P. Brito-Zerón, E. Bartoloni, C.P. Mavragan, D.I. Fotiadis, A.G. Tzioufas, M. Tsiknakis, A Training Tool to support the management and diagnosis of Sjögren's syndrome, *Clinical and Experimental Rheumatology* 2020, S-174.
  8. X. Atsalaki, L. Koumakis, G. Potamias, M. Tsiknakis, Chip-seq and gene expression data for the identification of functional sub-pathways: a proof of concept in lung cancer, doi: <https://doi.org/10.1101/2020.06.15.151712>
  9. H. Kondylakis, L. Koumakis, M. Tsiknakis, S. Kiefer, Personally managed health data: Barriers, approaches and a roadmap for the future, *Journal of Biomedical Informatics*, 20 May 2020, DOI: [10.1016/j.jbi.2020.103440](https://doi.org/10.1016/j.jbi.2020.103440)
  10. A. Pampouchidou, M. Padiaditis, E. Kazantzaki, S. Sfakianakis, I. A. Apostolaki, K. Argyraki, D. Manousos, F. Meriaudeau, K. Marias, F. Yang, M. Tsiknakis, M. Basta, A. N. Vgontzas, P. Simos. Automated facial video-based recognition of depression and anxiety symptom severity: cross-corpus validation, *Machine Vision and Applications* (2020) 31:30 <https://doi.org/10.1007/s00138-020-01080-7>
  11. 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. DOI: <https://doi.org/10.1016/j.cmpb.2019.05.032> (IF: 3.424).
  12. G. Z. Papadakis, A. H. Karantanas, M Tsiknakis, A., Tsatsakis, D. A Spandidos, & K. Marias, (2019). Deep learning opens new horizons in personalized medicine. *Biomedical Reports*, 10(4), 215-217, <https://doi.org/10.3892/br.2019.1199>
  13. C. Spanakis, E. Mathioudakis, N. Kampanis, M. Tsiknakis, K. Marias, Machine-learning regression in evolutionary algorithms and image registration, *IET Image Processing*, Volume 13, Issue 5, April 2019, p. 843 – 849, DOI: [10.1049/iet-ipr.2018.5389](https://doi.org/10.1049/iet-ipr.2018.5389)
  14. G. Giannakakis, D. Grigoriadis, K. Giannakaki, O. Simantiraki, A. Roniotis, M. Tsiknakis, Review on psychological stress detection using biosignals, *IEEE Transactions on Affective Computing* (Early Access), 09 July 2019, DOI: [10.1109/TAFFC.2019.2927337](https://doi.org/10.1109/TAFFC.2019.2927337), (IF: 6.288).
  15. L. Koumakis , C. Chatzaki, E Kazantzaki, E. Maniadi, M. Tsiknakis, Dementia Care Frameworks and Assistive Technologies for Their Implementation: A Review, *IEEE Reviews in Biomedical Engineering*, Vol. 12, pp. 4-18, DOI: [10.1109/RBME.2019.2892614](https://doi.org/10.1109/RBME.2019.2892614)
  16. C. Spanakis, E. Mathioudakis, N. Kampanis, M. Tsiknakis, K. Marias, Machine-learning regression in evolutionary algorithms and image registration, *IET Image Processing*, Volume 13, Issue 5, 18 April 2019, p. 843 – 849, DOI: [10.1049/iet-ipr.2018.5389](https://doi.org/10.1049/iet-ipr.2018.5389)

17. K. Kourou, V. C. Pezoulas, E. I. Georga, T. Exarchos, P. Tsanakas, M. Tsiknakis, Th. Varvarigou, S. De Vita, A. Tzioufas, D. I. Fotiadis, *IEEE Reviews in Biomedical Engineering*, Vol. 12, ππ. 303-318, 11 July 2018, DOI: [10.1109/RBME.2018.2855055](https://doi.org/10.1109/RBME.2018.2855055)
18. G. Iatraki, H. Kondylakis, L. Koumakis, M. Chatzimina, E. Kazantzaki, K. Marias, M. Tsiknakis, *Personal Health Information Recommender: implementing a tool for the empowerment of cancer patients*, [Ecancermedicalscience](https://doi.org/10.3332/ecancer.2018.851). 2018; 12: 851, doi: [10.3332/ecancer.2018.851](https://doi.org/10.3332/ecancer.2018.851)
19. A. Pampouchidou, P. Simos, K. Marias, F. Meriaudeau, F. Yang, M. Padiaditis, M. Tsiknakis, *Automatic Assessment of Depression Based on Visual Cues: A Systematic Review*, *IEEE Transactions on Affective Computing*, Issue: 99, Sept 2017, DOI: [10.1109/TAFFC.2017.2724035](https://doi.org/10.1109/TAFFC.2017.2724035)
20. A. Pampouchidou, M. Padiaditis, A. Maridaki, M. Awais, C. Vazakopoulou, S. Sfakianakis, M. Tsiknakis, P. Simos, K. Marias, F. Yang, F. Meriaudeau, *Quantitative comparison of motion history image variants for video-based depression assessment*, *EURASIP Journal on Image and Video Processing* 2017:64 <https://doi.org/10.1186/s13640-017-0212-3>
21. P. Rodriguez, M. Tsiknakis, et al, *Mirror mirror on the wall... an unobtrusive intelligent multisensory mirror for well-being status self-assessment and visualization*, *IEEE Transactions on Multimedia*, Volume: 19, Issue: 7, pp. 1467 – 1481, 2017, DOI: [10.1109/TMM.2017.2666545](https://doi.org/10.1109/TMM.2017.2666545)
22. C. Chatzaki, M. Padiaditis, G. Vavoulas, M. Tsiknakis, *Human Daily Activity and Fall Recognition Using a Smartphone's Acceleration Sensor*, *Communications in Computer and Information Science*, Springer. *Communications in Computer and Information Science*, volume 736, 20 July 2017.
23. H. Kondylakis, L. Koumakis, S. Hännold, I. Nwankwo, N. Forgó, K. Marias, M. Tsiknakis, N. Graf, *Donor's Support Tool: Enabling Informed Secondary Use of Patient's Biomaterial and Personal Data*, *International Journal of Medical Informatics*, January 2017, Volume 97, Pages 282–292, <https://doi.org/10.1016/j.ijmedinf.2016.10.019>
24. G. Giannakakis, M. Padiaditis, D. Manousos, E. Kazantzaki, F. Chiarugi, P.G. Simos, K. Marias, M. Tsiknakis, *Stress and anxiety detection using facial cues from videos*, *Biomedical Signal Processing and Control Journal*, Volume 31, January 2017, Pages 89–101, DOI: [10.1016/j.bspc.2016.06.020](https://doi.org/10.1016/j.bspc.2016.06.020)
25. L. Koumakis, A. Kanterakis, E. Kartsaki, M. Chatzimina, M. Zervakis, M. Tsiknakis, et al. *MinePath: Mining for phenotype differential sub-paths in molecular pathways*, *PLoS Computational Biology*, Nov. 2016, 12(11): e1005187. doi:[10.1371/journal.pcbi.1005187](https://doi.org/10.1371/journal.pcbi.1005187)
26. H. Kondylakis, B. Claerhout, M. Keyur, L. Koumakis, J. Van Leeuwen, K. Marias, D. Perez-Rey, K De Schepper, M. Tsiknakis, A. Bucur, *The INTEGRATE project: Delivering solutions for efficient multi-centric clinical research and trials*, *Journal of Biomedical Informatics*, Volume 62, August 2016, Pages 32–47, DOI: [10.1016/j.jbi.2016.05.006](https://doi.org/10.1016/j.jbi.2016.05.006)
27. E. Spanakis, S. Santana, K. Marias, V. Sakkalis, M. Tsiknakis, A. Teixeira, J. Janssen, H. Jong, H. Segal, Ch. Tziraki, *Technology-based Innovations to Foster Personalized Healthy LifeStyles and Wellbeing: A targeted Review*, *Journal of Medical Internet Research*, *J Med Internet Res* 2016;18(6):e128, DOI: [10.2196/jmir.4863](https://doi.org/10.2196/jmir.4863)
28. Y. Andreu, F. Chiarugi, S. Colantonio, G. Giannakakis, D. Giorgi, P. Henriquez, E. Kazantzaki, D. Manousos, K. Marias, B. J. Matuszewski, M. Antonietta Pascali, M. Padiaditis, G. Raccichini, M. Tsiknakis, *Wize Mirror - a smart, multisensory cardio-metabolic risk monitoring system*, *Computer Vision and Image Understanding*, Special issue on Assistive Computer Vision and Robotics - "Assistive Solutions for Mobility, Communication and HMI", Volume 148, July 2016, Pages 3–22, DOI: [10.1016/j.cviu.2016.03.018](https://doi.org/10.1016/j.cviu.2016.03.018)
29. L. Koumakis, G. Potamias, M. Tsiknakis, M. Zervakis, V. Moustakis, *Integrating Microarray Data and GRNs*, *Microarray Data Analysis*, Volume 1375 of the series *Methods in Molecular Biology*, pp 137-153, 02 July 2015.

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## Invited Presentations and Colloquia

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2. M. Tsiknakis, 25ο Ελληνικό Συνέδριο Κλινικής Ογκολογίας, *Integrative data analysis for implementing precision medicine*, Round table: Precision oncology: from concept to realization, Chairs: D. Mavroudis, A. Koutras, K. Stamatopoulos, 18-20 April 2019, Athens.
3. M. Tsiknakis, *Big Data Analytics: Promise and Potential for eHealth and Biomedicine*, eHealth Forum 2016, 25-26 October 2016, Athens.
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5. G. Potamias, M. Tsiknakis, D. Kafetzopoulos. *Clinico-Genomics and Biomedical Informatics: The ACGT Approach*, International Symposium on Biomedical Informatics in Europe, 26-27 June 2007, Barcelona, Spain (invited; Abstract & Presentation). <http://www.infobiomed.net/symposium/programme/topicF.htm>
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### **Citations**

The published research work of Dr Tsiknakis has received significant international recognition. A relevant search in Scholar ([https://scholar.google.gr/citations?user=Khj\\_WYgAAAAJ&hl=el](https://scholar.google.gr/citations?user=Khj_WYgAAAAJ&hl=el)) results in 4431 citations (h-index : 37) or his published work (accessed Nov. 2021).

### **Other Miscellaneous Publications**

Dr Tsiknakis, when at FORTH, has published extensively on issues related to medical and biomedical informatics and eHealth on numerous non-scientific journals as well as in the national and regional press.

Indicative such articles can be found at [http://www.ics.forth.gr/bmi/ehealth\\_in\\_the\\_news.html](http://www.ics.forth.gr/bmi/ehealth_in_the_news.html).