

Dimitris K. Iakovidis

PERSONAL INFORMATION

Contact University of Thessaly, Department of Computer Science and Biomedical Informatics
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Websites <https://is-innovation.eu/iakovidis>; <http://dib.uth.gr/?personnel=diakovidis>

EDUCATION

2004 PhD on Informatics. Thesis title: "Multichannel Medical Data Acquisition and Processing"
Disputation date: 10.05.2004.
Department of Informatics and Telecommunications, University of Athens, Greece

2001 Master on Cybernetics
Department of Informatics and Telecommunications, University of Athens, Greece

1997 Bachelor on Physics
Department of Physics, University of Athens, Greece

CURRENT AND PREVIOUS POSITIONS

2015-today Associate Professor
Department of Computer Science and Biomedical Informatics, University of Thessaly (UTH), Greece

2014-2015 Associate Professor
Department of Computer Engineering, Technological Educational Institute (University of Applied Sciences) of Central Greece

2010-2014 Assistant Professor
Department of Informatics and Computer Technology, Technological Educational Institute of Lamia, Greece

2009-2014 Adjunct Assistant Professor and Lecturer
Department of Computer Science and Biomedical Informatics, University of Central Greece

2006-2009 Adjunct Assistant Professor
Department of Regional Economic Development, University of Central Greece

2005-2010 Adjunct Assistant Professor and Lecturer
Department of Informatics and Computer Technology, Technological Educational Institute of Lamia, Greece

2004-2005 Adjunct Lecturer
Department of Philosophy and History of Science, University of Athens, Greece
Department of Informatics and Telecommunications, University of Athens, Greece

FELLOWSHIPS AND AWARDS

2019 Best paper nomination among 1,459 papers published in 2018 in the 'Sensor, Signal, and Imaging Informatics' subfield of medical informatics; In Hsu, W., Baumgartner, C., & Deserno, T. (2019). Advancing Artificial Intelligence in Sensors, Signals, and Imaging Informatics. IMIA Yearbook of Medical Informatics, 28(01), 115-117

2014-2018 Outstanding Reviewer Awards received from Elsevier Journals: Computers in Biology and Medicine; Pattern Recognition; Medical Image Analysis

2014 Senior Membership of IEEE

2002 NATO Scholarship, Department of Informatics and Telecommunications, University of Athens, Greece

2001 NATO Scholarship, Department of Informatics and Telecommunications, University of Athens, Greece

1998 Best Postgraduate Student Award, State Scholarship Foundation (SSF), Department of Informatics and Telecommunications, University of Athens, Greece.

MOBILITY

2001 Research Associate, Machine Learning –based Genomic Data Analysis (2 months), Department of Bioinformatics, Medical School, University of Pennsylvania, USA

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

2008-today **Principal supervisor**
3 Post-doctoral Research Fellows; 5 Doctoral Researchers; 3 Master Students
Participation in PhD Committees
2015-2017 Dept. Electrical Engineering, Technical University of Eindhoven, Netherlands
2015 Dept. Computer Sciences, University of Salzburg, Austria

TEACHING ACTIVITIES

2015-today Biomedical Signal Processing; Biomedical Image Analysis (BSc & MSc); Modelling of Biomedical Systems and Control (MSc); Object Oriented Programming, Department of Computer Science and Biomedical Informatics, University of Thessaly, Greece
2016-today Health Informatics (MSc), Faculty of Medicine, University of Athens
2009-today Medical Decision Support Systems, Department of Computer Science and Biomedical Informatics, University of Thessaly, Greece
2015-2017 Big Data Mining and Analysis in Medicine and Biology (MSc), Department of Computer Science and Biomedical Informatics, University of Thessaly, Greece
2009-2015 Advanced Object-Oriented Programming, Department of Computer Engineering, Technological Educational Institute of Central Greece
2005-2013 Digital Image Processing, Department of Informatics and Computer Technology, Technological Educational Institute of Lamia, Greece
2010-2013 Structured Programming, Department of Informatics and Computer Technology, Technological Educational Institute of Lamia, Greece
2006-2009 Structured Programming, Department of Regional Economic Development, University of Central Greece
2004-2005 Digital Signal Processing; Bioinformatics, Department of Computer Engineering, Technological Educational Institute of Lamia, Greece
2004-2005 Expert Systems, Department of Philosophy and History of Science, University of Athens
2004-2005 Realtime Systems, Department of Informatics and Telecommunications, University of Athens, Greece

ORGANISATION OF SCIENTIFIC MEETINGS

2018 Organizer of the International Workshop on Pervasive Intelligence, in EANN 2019 / approx. 50 part. / Crete, Greece
2017 Organizer of Special Session on Computer Aided and Robotic Endoscopy Systems, in CBMS 2017 / approx. 50 part. / Thessaloniki, Greece
2013 Organizer of Special Session on Advanced Concepts in Endoscopic Imaging and Engineering in BIBE 2013 / approx. 50 part. / Chania, Greece
2012 Organizer of Special Session on Intelligent Annotation of Digital Content, in SETN 2012 / approx. 50 part. / Lamia, Greece
2009 Organizer of the International Workshop on Information Technology for Patient Safety (ITPS), in ITAB 2009 / approx. 50 part. / Larnaca, Cyprus
2008-2018 Regular Steering Committee Member in Imaging Systems and Techniques (IST) conference / approx. 200 part / International
2005-today Regular Programme Committee Member in Advanced Concepts on Intelligent Vision Systems (ACIVS) / approx. 200 part. / International

INSTITUTIONAL RESPONSIBILITIES

2019-today Deputy Department Head

2019	Dept of Computer Science and Biomedical Informatics, University of Thessaly, Greece Department Head
2011-2013, 2015	Dept of Computer Science and Biomedical Informatics, University of Thessaly, Greece Department Head
2015	Dept of Computer Engineering, Technological Educational Institute of Central Greece
2014-2015	Head of the Research, Entrepreneurship, Innovation, and European Projects Office, Technological Educational Institute of Central Greece
2011-2013	Vice Rector (acting), Technological Educational Institute of Central Greece
2011-2014	Vice Dean of the Faculty of Applied Technologies, Technological Educational Institute of Lamia
2011-2014	Head of the Institute of Information Technology, Center for Technological Research of Central Greece
2011-2013	Vice Director, Center for Technological Research of Central Greece

LEADERSHIP IN INDUSTRIAL INNOVATION AND DESIGN

2016-2018	Invited consultant of International Pharmaceutical and Medical Device Industries
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COMMISSIONS OF TRUST

2019-today	Associate Editor, IET Signal Processing
2015-today	Associate Editor, IEEE Transactions on Fuzzy Systems
2017-today	Editorial Board Member, Measurement Science and Technology (MST), IOP
2019	Guest Editor, Special Issue with Focus on Optical Measurement Methods for Health & Related Applications, MST; Special Issue on Sensors, Signal and Image Processing in Biomedicine and Assisted Living, Sensors, MDPI (under development)
2011	Guest Editor, Special Issue on Imaging Systems and Techniques, Measurement Science and Technology, IOP
2004-today	Reviewer in >40 journals and conferences – Regular in Pattern Recognition; IEEE Transactions on Medical Imaging; IEEE Journal of Biomedical and Health Informatics; IEEE Transactions Biomedical Engineering; Medical Image Analysis; Computers in Biology and Medicine; Computerized Medical Imaging and Graphics; ICPR, MICCAI etc.
2014-today	Vice Chair – Quality Controller and Evaluator, Research Executive Agency (REA), European Commission
2018-2019	Evaluator, Hellenic Foundation for Research and Innovation of Greece; General Secretary for Research and Technology of Greece
2018-2019	Evaluator, Activage H2020 Consortium
2013, 2016-2017	Evaluator, National Science Foundation of Poland
2017	Evaluator, National Medical Research Council, Ministry of Health, Singapore; Vrije University Brussels (VUB), Strategic Research Programmes; Research Promotion Foundation of Cyprus

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2004-today	IEEE, Societies of Engineering in Medicine and Biology (EMBS), Computational Intelligence (CIS), and Signal Processing (SPS)
2017-today	ESC, European Society of Cardiology (e-Cardiology);
2014-today	EUCOG, European Network for the Advancement of Artificial Cognitive Systems, Interaction & Robotics
2011-2018	VPHI Virtual Physiological Human Institute
2006-today	IAPR International Association for Pattern Recognition
2006-today	GAIPDM Greek Association for Image Processing and Digital Media

SUMMARY OF PUBLICATIONS AND CITATIONS

Publications	169	(2 Books, 21 Book Chapters, 59 Journals, 68 Int. Conferences, 19 Other)
Citations	3074	(Google Scholar)
h/i10 indices	30 / 75	(Google Scholar)

10 SELECTED PUBLICATIONS

1. D. Diamantis, **D.K. Iakovidis**, and A. Koulaouzidis, "Look-Behind Fully Convolutional Neural Network for Computer-Aided Video Endoscopy," *Biomedical Signal Processing and Control*, vol. 49, pp. 192-201, 2019, doi: 10.1016/j.bspc.2018.12.005
2. **D.K. Iakovidis**, S.V. Georgakopoulos, M. Vasilakakis, A. Koulaouzidis, and V. Plagianakos, "Detecting and Locating Gastrointestinal Anomalies Using Deep Learning and Iterative Cluster Unification," *IEEE Transactions on Medical Imaging*, vol. 37, no. 10, pp. 2196 - 2210, 2018
3. **D.K. Iakovidis**, G. Dimas, A. Karargyris, F. Bianchi, G. Ciuti, and A. Koulaouzidis, "Deep Endoscopic Visual Measurements," *IEEE Journal of Biomedical and Health Informatics*, 2018, doi: 10.1109/JBHI.2018.2853987
4. **D.K. Iakovidis**, and A. Koulaouzidis, "Software for Enhanced Video Capsule Endoscopy: Challenges for Essential Progress," *Nature Reviews Gastroenterology & Hepatology*, vol. 12, no 3, pp. 172-186, 2015, doi:10.1038/nrgastro.2015.13
5. E. Papageorgiou, and **D.K. Iakovidis**, "Intuitionistic Fuzzy Cognitive Maps," *IEEE Transactions on Fuzzy Systems*, vol. 21, no.12, pp. 342-254, 2013
6. **D.K. Iakovidis**, S. Tsevas, M.A. Savelonas, and G. Papamichalis, "Image Analysis Framework for Infection Monitoring," *IEEE Transactions on Biomedical Engineering*, vol. 59, no. 4, pp.1135-1144, 2012
7. **D.K. Iakovidis**, and E. Papageorgiou, "Intuitionistic Fuzzy Cognitive Maps for Medical Decision Making," *IEEE Transactions on Information Technology in Biomedicine*, vol. 15, no. 1, pp. 100-107, 2011
8. M.A. Savelonas, **D.K. Iakovidis**, and D.E. Maroulis, "LBP-Guided Active Contours," *Pattern Recognition Letters*, vol. 29, pp. 1404-1415, 2008
9. P.G. Papageorgas, D. Maroulis, G. Anagnostopoulos, H. Albrecht, B. Wagner, **D.K. Iakovidis**, and N.G. Theofanous, "A High-Performance Imaging and Control System for a Micromirror-Based Laser-Scanning Endoscope Device," *IEEE Transactions on Instrumentation and Measurement*, vol. 55, no. 5, pp. 1725-1733, 2005
10. S.A. Karkanis, **D.K. Iakovidis**, D.E. Maroulis, D.A. Karras, and M. Tzivras, "Computer Aided Tumor Detection in Endoscopic Video using Color Wavelet Features," *IEEE Transactions on Information Technology in Biomedicine*, vol. 7, pp. 141-152, 2003

RESEARCH MONOGRAPHS

1. **D.K. Iakovidis**, "Multichannel Medical Data Acquisition and Processing," PhD Thesis, Department of Informatics and Telecommunications, University of Athens, Greece, 2004.

SELECTED INVITED PRESENTATIONS

1. Conference Lecture "Computer-Aided Detection of Abnormalities in Gastrointestinal Endoscopy: Achievements and Challenges," Medical Image Computing and Computer Assisted Interventions (MICCAI), Workshop on Robotic Endoscopic Capsules for Gastrointestinal Screening, Diagnosis, and Therapy, Oct. 9, 2015, Munich, Germany.
2. Conference Lecture "Automatic Lesions Detection for Wireless Capsule Endoscopy," IEEE International Conference on Intelligent Robots and Systems (IROS), Workshop on Robotic Endoscopic Capsules for Gastrointestinal Screening, Diagnosis, and Therapy: Achievements and Future Challenges, Sept. 28, 2015, Hamburg, Germany.
3. Conference Lecture "Digital Image Processing: Clinical Applications & Challenges in Cosmetics," Cosmetic Measurement and Testing (COMET), June 8-9, 2015, Paris, France

SELECTED PROJECTS

1. **2018-today, ENORASI: Intelligent Audiovisual System Enhancing Experience and Accessibility to Civilization**; Coordination: D. Iakovidis, UTH; Funded by European Union and Greek national funds (ESPA); Budget: €1,000,000; <http://www.enorasi-project.com/>
2. **2008-2012 DebugIT: Detecting and Eliminating Bacteria Using Information Technologies**, Integrated FP7 Project; Coordination: AGFA Healthcare; Principal investigator: D. Iakovidis, TEI; Funded by European Union; Budget: €9,398,033; <http://www.debugit.eu/>