

# Curriculum Vitae

## Ioannis Constantinou

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<b>Personal Information</b>	DOB	15-05-1982
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<b>Education</b>	Diploma Electrical Engineering and Computer Engineering National Technical University of Athens 2006. Grade 8.00/10.00
	MSc Biomedical engineering. University of Patras and National Technical University of Athens 2009. Grade 8.02/10.00.
	PHD candidate, Department of Computer Sciences, University of Cyprus

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<b>Work Experience</b>	09/2015 – Today	Researcher e-health Laboratory UCY
	11/2012 – 3/2014	Researcher LINC Laboratory UCY
	05/2010 - Today	Programmer at Istognosis LTD
	10/2008 - 05/2010	Biomedical Engineering MedTechSol Ltd
	03/2007 - 07/2008	Programmer and postgraduate collaborator researcher at Biomedical Research Foundation of Academy of Athens

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<b>Additional Experience</b>	Take part in the Expandathon 2015
	Take part in the Connectathon 2015
	Programmer and researcher at project “Semi-Autonomous Vineyard Spraying Agricultural Robot”. Bilateral S & T cooperation between Greece

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and Israel, 2013-2015

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Programmer and researcher at project "FI-STAR", FI-PPP project 4/2014 – 6/2015. PACS SE head developer.

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Programmer and researcher at project "Telehabilitation", INTEREG Greek Cyprus 2011-2014

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Programmer and researcher at project “The supportive role of robotic technology for sustainable development of agriculture” Research Promotion Foundation ΑΕΙΦΟΡΙΑ/ ΓΕΩΡΓΟ/ 0609(BE) /06

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Biomedical Engineer and research assistant at research project “A Computer Aided Diagnosis tool in Gynaecological Endoscopy (CAD\_Gen). Ministry of Commerce and Industry, Cyprus, Call for High Technology and Innovative Incubator Companies

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Programmer and research assistant at research project "Improvement of the quality and reliability of telecardiology". Project of Biomedical Research Foundation of Academy of Athens Funded by National and European Union Resources under Grant AT-038.

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Programmer and research assistant at research project «Development of advanced computational algorithms and software tools for the digital processing of brain signals (EEG, microelectrode recordings) and for the computational modeling of brain structures/functions based on individualized anatomical and neurophysiological data for Parkinson's disease and epilepsy". Project of General Secretariat of Research and Technology - PENED 03, (2006-2009)

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Programmer and research assistant at research project «Simulation and modeling of complex biological processes in small animals». Project of General Secretariat of Research and Technology - Bilateral Collaboration Greece - Albania, (2005-2007)

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<b>Programming Skills</b>	Programming	C, C++, FORTRAN, VB, C#, PHP, PYTHON, JAVA, HTML, HTML5, CSS, CSS3, JavaScript, MatLab, R, OpenCL
	Frameworks	Django, Codeigniter, OpenCV, EMGU, jQuery, angularJS, .Net, Bootstrap
	IDEs	Dreamweaver, Aptana Studio, NetBeans, Eclipse, Microsoft Visual Studio, Microsoft Expression.
	DBRMS and NonSQL	MySQL, SQL Server, Postgress, MongoDB, Elastic search
	OS	Windows, Linux (Ubuntu, Centos)
	Standards and profiles	DICOM, IHE profiles, Modbus RTU
	Automation	Ladder, ROS
	<b>Publications</b>	
<b>Diplomas</b>	D.2. Diploma Thesis: « Simulation of vascular network of cancer tumours using fractal theory ». Supervisor: Konstantina Nikita. 2006	
	D.1. Master of Science Thesis: «Use of the MPEG-4 ALS architecture and inter-channel prediction for Multi-channel ECG coding», Supervisor: Ouzunoglou Nikolaos 2008.	
<b>Journal Papers</b>	J.4. I. Constantinou, M. Pattichis, C. Pattichis, “AM-FM component selection methods”, to be submitted at IEEE Transaction on Image Processing.	
	J.3. I. Constantinou, M. Neophytou, V. Tanos, M. Pattichis, C. Pattichis, “Color Correction Processing Steps in Endoscopy Imaging “, to be submitted at IEEE Transaction on Medical Imaging.	
	J.2. M.S. Neophytou, V. Tanos, I.P. Constantinou, M.S. Pattichis, E.C. Kyriacou, and C.S. Pattichis, “Computer–Aided Diagnosis in Hysteroscopic Imaging”, IEEE Journal of Biomedical and Health Informatics, vol.19, no.3, pp.1129-1136, May	

2015 doi: 10.1109/JBHI.2014.2332760

J.1. A.N. Kastania, G. Loudos, N.P. Sgouros, I. Constantinou, M. Vavatsioulas, H. Boudoulas, and S. Kossida, "e-Herophilus: 24-hour personalised telecardiology services," *International Journal of Electronic Healthcare*, vol. 5, 2010, pp. 340-354.

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### Magazine Papers

M.2. Kastania A., Loudos G., Demarias S., Konstantinou I., Sgouros N., Gavala A., Vavatsioulas M., Stamatopoulos V., Tshipis A., Stafylas P., Dafoulas G., Davos C., Boudoulas H., Kossida S., Quality Models and Certificates for Telecardiology Platforms, *MED Review Cardiology* 200813:34-37

M.1. G Loudos, A Kastania, N Sgouros, S Demarias, I Constantinou, A Gavala, M Vavatsioulas, S Antonellos, A Tshipis, C Davos, H Boudoulas, S Kossida, "A STRATEGY TO IMPROVE THE QUALITY AND RELIABILITY OF TELECARDIOLOGY: E-HEROPHILUS PROJECT", BRFAA, Scientific Retreat November 16-18, 2007

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### Conference Papers

C. 14 M. Neofytou, Marios, K. Neokleous, A. Aristodimou, I. Constantinou, Z. Antoniou, E.C.Schiza, C.S. Pattichis, C.N. Schizas, *Electronic Health Record Application Support Service Enablers*, EMBC, 2015

C.13 Petroudi S., Constantinou I., Pattichis M., Tziakouri C. and Pattichis C., *Evaluation of Co-occurrence Texture Features on AM-FM Instantaneous Amplitude for Breast Density Classification*. 8th European Conference on Medical Physics (ECMP2014). Athens, Greece, 2014.

C.12 S. Petroudi, I.P. Constantinou, M.S. Pattichis, C. Tziakouri, K. Marias, and C.S. Pattichis, "Evaluation of Spatial Dependence Matrices on Multiscale Instantaneous Amplitude for Mammogram Classification", 6th European Conf. Int. Fed. Med. & Biolog. Eng. (MBEC), Dubrovnik, Croatia, 7-11 Sept., IFMBE Proc., vol. 45, pp. 156-159, 2014.

C.11 Constantinou I., Pattichis M., Tziakouri C., Pattichis C. and Petroudi S., *AM-FM Multiscale Instantaneous Amplitude Evaluation for Mammographic Density Classification*. 18th Annual Conference in Medical Image Understanding and Analysis (MIUA 2014). London, UK, 2014.

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- C.10. Ioannis Constantinou, Marios Neophytou, Vasilis Tanos, Marios Pattichis, Christodoulos Christodoulou, Constantinos Pattichis, "A Comparison of Color Correction Algorithms for Endoscopic Cameras ", BIBE, November 2013, Creta.
- C.9. Styliani Petroudi, Ioannis Constantinou, Chrysa Tziakouri , Marios Pattichis, Constantinos Pattichis, "Investigation of AM-FM Methods for Mammographic Breast Density Classification", BIBE, November 2013, Creta.
- C.8. Nicolas Stylianides, Andreas Papadopoulos, Ioannis Constantinou, Marios Dikaiakos, Theodoros Kyprianou, "TeleRehabilitation: a novel design service oriented platform to support Tele-Supervised rehabilitaion programs for ICU patients", BIBE, November 2013, Creta.
- C.7. Ioannis Constantinou, Marios Pattichis, Constantinos Pattichis "Multiscale AM-FM Image Reconstructions Based on Elastic Net Regression and Gabor Filterbanks", Asilomar, 3-6 November 2013, California USA.
- C.6. S. Kokkoris, E. Kyriakides, I. Constantinou, L. Loizou, N. Stylianides, M. D. Dikaiakos, S. Nanas and T. C. Kyprianou, "The ability of various glucose variability metrics for mortality prediction in critically ill patients: a comparative study" ECIM 2013
- C.5. Ioannis Constantinou, Marios Pattichis, Vasilis Tanos, Marios Neophytou, Constantinos Pattichis, "An addaptive AM-FM texture analysis system: Application in hysteroscopy imaging ", BIBE, November 2012, Limasol Cyprus.
- C.4. Ioanna Herakleous, Ioannis Constantinou, Elena Michael, Marios Neofytou, Constantinos Pattichis, Vasillis Tanos, "A Simplified 2D real Time Navigation System For Hysteroscopy Imaging", submitted to International Conference on Computer System and Technologies - CompSysTech'11, April 2011, Vienne, Austria
- C.3. I.P. Constantinou, M. S. Neofytou, V. Tanos, C. S. Pattichis, " Reliable Hysteroscopy Color Imaging", The 12th Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2010, May 27-30, 2010, Chalkidiki, Greece, 4 pages, 2010.
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C.2. I.P. Constantinou, C.A. Koumourou, M.S. Neofytou, V. Tanos, C.S. Pattichis, and E. Kyriakou, "An integrated CAD system facilitating the endometrial cancer diagnosis," 2009 9th International Conference on Information Technology and Applications in Biomedicine, Larnaka, Cyprus: 2009, pp. 1-5.

C.1. N.P. Sgouros, I.P. Constantinou, G.K. Loudos, and S.A. Kossida, "Use of the MPEG-4 ALS Architecture and Inter-channel Prediction for Multi-channel ECG Coding," 2007 IEEE International Symposium on Signal Processing and Information Technology, Giza, Egypt: 2007, pp. 754-759.

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### **Letters**

L.1. I. Constantinou, A. Papadopoulos, M. Dikaiakos, Nicolas Stylianides, T. Kyriakou. "Big data in healthcare: A case study for Intensive Care Unit (ICU)" to be submitted in ERCIM 2013

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### **Workshops**

W.7. Savvas Christodoulou, Georgos Giorgakis, Ioannis Constantinou, Giorgos Chrysanthou "Automatic Foreground Extraction with Kinect" in Proc. of 6 Cyprus Workshop on Signal Processing and Informatics, Nicosia, Cyprus, July 9th, 2013.

W.6. Chrystalla Miltiadou, Nikolas Papachrysanthou, Marios Georgiades, Ioannis Constantinou, "A Real-Time Emotion Recognition System for Monitoring the Elderly" in Proc. of 6 Cyprus Workshop on Signal Processing and Informatics, Nicosia, Cyprus, July 9th, 2013.

W.5. Ioannis Constantinou, Marios Pattichis, Costantinos Pattichis, "Multiscale AM-FM Image Reconstructions Based on Elastic Net Regression and Gabor Filterbanks" in Proc. of 4rd Cyprus Workshop on Signal Processing and Informatics, Nicosia, Cyprus, July 9th, 2013.

W.4. Kyriacos Constantinou, Ioannis Constantinou, Charalambos Economides, Costantinos Pattichis, "Quantitative Analysis of Myocardial and Liver Iron Loading in MRI Imaging of Thalassemia Subjects", in Proc. of 5th Cyprus Workshop on Signal Processing and Informatics, Nicosia, Cyprus, July 10th, 2012

W.3. Elena Michael, Ioannis Constantinou, Ioanna Herakleous, Marios Neofytou, Constantinos Pattichis, Vasilios Tanos, "A Simplified 2D Navigation System For Post-Exam Hysteroscopy Imaging" in Proc. of 4rd Cyprus Workshop on Signal

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Processing and Informatics, Nicosia, Cyprus, July 14th , 2011.

W.2. Ioannis Constantinou, Marios Pattichis ,Constantinos Pattichis, Marios Neofytou, Vasilios Tanos, "Comparison of Texture Feature Analysis Techniques in Hysteroscopy Imaging" in Proc. of 4rd Cyprus Workshop on Signal Processing and Informatics, Nicosia, Cyprus, July 14th , 2011

W.1. I.P. Constantinou, C. A. Koumourou, M. S. Neofytou, V. Tanos, C. S. Pattichis, M. S. Pattichis and E.C. Kyriakou, "An Integrated CAD System for the Assessment of Endometrial Cancer," in Proc. of 3rd Cyprus Workshop on Signal Processing and Informatics, Nicosia, Cyprus, July 15th, 2010

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