Senior Software & Telecommunications Engineer Merarchias 13, Serres, Greece Tel. +30 23210 99813 Mob: +30 6973 043484 email: atg@flexis.gr

Dr Apostolos Georgiadis completed his studies at the Department of **Computer Engineering & Informatics**, **University of Patras**, Greece, in 1995 with honors (87%). He then completed a six-month research contract with the Group of Machine Imaging and Intelligence (MI2) at the **University of Leuven**, Belgium, funded by the Greek State Scholarships Institute.

He then continued with his doctoral research studies at the **University of Edinburgh**, UK, with the Department of Electronics and Electrical Engineering – Signals and Systems Group, where he studied the problem of non-linear equalisation of telecommunication channel in impulsive noise environments. He received the **PhD diploma** in 2001.

From 2000 until 2002 he worked as a Research Associate at first and then as a **Research Fellow** with the Signals and Systems Group, **University of Edinburgh**, UK. During this period he did post doctoral research, funded by a £1.3 million contract with "**LG Electronics Inc**", on advanced design techniques for 3G base-station receivers with interference cancellation. He also investigated the problem of minimum bit-error ratio equalisers in alpha-stable impulsive noise environments.

Dr Georgiadis is a professional **Software Engineer**, having served as **Chief Technical Officer** and **Head of the Research & Development** Department in high-tech software development companies (*MegaSoft, Intelligent-Read, SBOING.net*), while recently he founded his own Software company *FlexIS*.

Dr Georgiadis has a long record of experience in the design and development of commercial and scientific software, with a sound background on all edge technologies and platforms (C/C++/C# .NET, ASP.NET, Objective-C, Javascript, PHP, Windows, Unix/Linux, OSX, Windows Mobile/Phone, iOS, Android, Java, SQL etc). He is the author of numerous desktop, web and mobile applications, spanning the fields of **Commercial Management**, **GIS**, **GPS Navigation**, **Big Data Web applications and services, scientific & AI applications**, **Visualization** and many others.

Since 2002 he also works as a part-time Lecturer at the Department of Telecommunications & Informatics, Technical University of Serres, Greece. In 2004 he won a 12-month post-doctoral scholarship from the Greek State Scholarships Institute, in order to investigate advanced channel optimization techniques for 3G receivers. He also did research on Software Defined Radio, and recently he produced some very interesting new research results on the problem of sea bottom classification using two dimensional wavelet coefficient statistics.

He has authored and co-authored numerous scientific papers, in scientific, peer-reviewed, journals and conferences.

Recently, he obtained two on-line postgraduate degrees from the Universities of Berkley and Stanford on Software Engineering, Software as a Service and Cryptography, respectively.

Senior Software & Telecommunications Engineer Merarchias 13, Serres, Greece Tel. +30 23210 99813 Mob: +30 6973 043484 email: atg@flexis.gr

PROFESSIONAL HISTORY

PROFESSIONA	AL HISTORY
2016 – Today	NopServices
	Solution Architect – Data Analyst: web & mobile applications, Big Data, ASP.net Development, machine learning (E-commerce Advisor)
2012 – 2016	SBOING.net
	Senior R&D Engineer on: a) crowd-sourced GPS Navigator on iOS & Android platforms, b) proprietary Big- Data DataBase development for the SBOING back-end
2012 – Today	MSc Lecturer at the Technical Educational Institute of Serres, Greece – Informatics & Comms Dept
	MSc Courses: a) Coding Theory and Error Correction, b) Advanced Mobile & Web Software Development
2002 – 2012	Teaching Associate with the Technical Educational Institute of Serres, Greece – Informatics & Comms Dept
	Courses: a) Communications I, b) Communications Lab I & II, c) Mobile Communications Lab
2003 –	Chairman of the Research & Development Group with Megasoft Informatics SA, Greece
2011	Senior Software Engineer on: Business Applications, Embedded Systems and Mobile Applications
Jan 2004 –	Post-Doctoral Scholarship from the Hellenic State Institute of Scholarships
Dec 2004	Research Fellow on «Advanced Receivers for the UTRA-FDD: a) advanced channel estimation techniques for the UTRA-FDD uplink, b) Chip-rate channel equalisation for UTRA-FDD downlink»
Sep 2001 –	Research Fellow with the University of Edinburgh, Electronics & Electrical Engineering Dept, UK
May 2002	Research on a) multiple access interference cancellation techniques for 3G base-stations, and b) minimum-BER linear equalisers in impulsive noise environment.
Sep 2000 –	Research Associate on a joint £1.5M LG Electronics Inc & University of Edinburgh, UK contract
Sep 2001	Analysis, development and simulation of 3G base-station architectures for enhanced multi-user detection for the UTRA-FDD.
EDUCATION	
2012	Postgraduate MooC from Univ. of Berkeley and Univ. of Stanford, USA
	 Software as a Service (score: 2097.6 out of a maximum of 2126) Cryptography (score: 178 out of a maximum of 183)
1997-2000	PhD from the University of Edinburgh, Electronics & Electrical Engineering Dept, UK
	«Adaptive Equalisation in Impulsive Noise Environments»
1990-1995	Computer & Informatics Engineering Diploma from the University of Patras, Faculty of Engineering, Greece
	Degree: Honours (86.9%)
	1

PUBLICATIONS

July 2008	Mavroudis T, Vardoulias G, Georgiadis A, Koukos I and Taroudakis M, " <i>Two Dimensional Wavelet Coefficient Statistics for Sea Bottom Classification</i> ", Acoustics 2008, July 2008, Paris, France.
May 2006	A Georgiadis, A Papatsoris, B Mulgrew, " <i>MMSE Optimisation for LS Channel Estimation in Wideband DS-CDMA Rake Receivers</i> ", ICASSP 2006, May 2006, Toulouse, France.
Apr 2006	A Georgiadis, A Papatsoris, B Mulgrew , "Channel Estimation Optimisation in Wideband DS-CDMA Rake Receivers", European Wireless 2006, Apr 2006, Athens, Greece.
Jun 2005	V Bhatia, B Mulgrew, A Georgiadis, "Stochastic Gradient Algorithms for Equalisation in Alpha Stable Noise", Signal Processing Journal, Elsevier publications: Accepted for publication on 17 June 2005
Mar 2005	H Mihailidis, K Sakalis, G Vardoulias, I Koukos, A Georgiadis, "Software Defined Radio Technology: Basic principles, developments & potential", 1 st Hellenic Conference of Electrical Engineers, Mar 2005, Athens, Greece
Sep 2004	V Bhatia, B Mulgrew, A Georgiadis, " <i>Minimum BER DFE Equalizer in Alpha-stable Noise</i> ", EUSIPCO 2004, Sept 2004, Vienna, Austria.

Dec 2002	A Georgiadis, B Mulgrew, "An Algorithm for Minimizing BER in Alpha Stable Noise", 2 nd I.M.A. conference on Mathematics in Telecommunications, Dec 2002, Lancaster, UK.
Aug 2001	A Georgiadis, B Mulgrew, "Adaptive Bayesian Decision Feedback Equaliser for Alpha—Stable Noise Environments", Signal Processing Journal, Elsevier publications, vol 81, no 8, pp 1603-1623, invited paper
Sep 1999	A Georgiadis, B Mulgrew, "A Family of Recursive Algorithms for Channel Identification in Alpha-Stable Noise", 5 th Bayona workshop on <i>Emerging Technologies in Telecommunications</i> , Sept 1999, Vigo, Spain.
Dec 1998	A Georgiadis, B Mulgrew, "A MAP Equaliser for Impulsive Noise Environments", 1 st I.M.A. conference on Mathematics in Telecommunications, Dec 1998, Loughborough, UK.

SOFTWARE DEVELOPMENT SKILLS

Unix/Linux Platforms	 C, C++, Java command-line scripting mySQL, postgreSQL
MS Platforms	 MySQL, posiglesQL .NET (C#, VB.NET) for Windows and Windows Mobile/Phone MS SQL Server Crystal Reports
Web	 HTML, HTML5, CSS Javascript, jQuery PHP ASP.NET AJAX Web Services – SOAP, REST
OSX & iOS	 Objective C# OSX & iOS apps
Android	• Java
Embedded Platforms	 Assembly µControllers
Revision Control	gitTeam Foundation Server
Scientific Platforms	MatlabMaple

- LaTeX •
- Word Processing

GENERAL

Music	Has studied and plays the:
	 Classical & Electric Guitar
	 Bouzouki
	 Violin Member of the Philharmonic Orchestra in his home town (Hrysoupolis, Kavala, Greece)
	 Appeared at the Edinburgh Fringe Festival in 2000 with the group <i>Tinella</i>.
Fluent	Greek (mother tongue) Faciliate (DED in Faciliate Liniversity of Combridge FCF, JELTC)
Languages	English (PhD in English, University of Cambridge FCE, IELTS)
Membership	Institute of Engineering & Technology (IET), former IEE.
	Hellenic Chamber of Engineering (TEE)
DEFEDENCES	
REFERENCES	

Prof. Bernard Mulgrew Professor & Deputy Director of Research. Department of Electronics & Electrical Engineering, King's Buildings, Edinburgh EH9 3JL, UK Email: B.Mulgrew@ee.ed.ac.uk Tel: +44 131 650 5580 Fax: +44 131 650 6554

Prof. Stephen McLaughlin

Head of School of Engineering and **Physical Sciences** DB 3.23, David Brewster Building, Heriot Watt Univeristy Edinburgh, EH14 4AS, United Kingdom Tel: +44 (0)131 451 3082 Email: s.mclaughlin@hw.ac.uk

Dr George Vardoulias Research Associate Institute of Informatics and Telecommunications, Demokritos, National Center for Scientific Research, P. Gregoriou 1 & Neapoleos, Agia Paraskevi 15310 Athens, Greece Tel. +30 210 6503210 E-mail: gvardoulias@iit.demokritos.gr