## **Academic Personnel Short Profile**

University:	Frederick University	
Reg. ID:*	23	
Surname:	Komodromos	
Name:	Michael	
Rank:	Professor	
School:	Engineering	
Department:	Electrical Engineering, Computer Engineering and Informatics	
Scientific Domain:**	Digital Signal Processing and Photonics	

\*Registration ID as provided by the University
\*\* Field of Specialization

Academic qualifications (list by highest qualification)					
Qualification	Qualification Year Awarding Institution Department Thesis title				
PhD	1993	Iowa State University	Electrical Engineering	Optimal FIR Filter Design	
MSc	1990	Iowa State University	Electrical Engineering	Frequency Synthesis	
BSc	1988	Iowa State University	Electrical Engineering	-	

Employment history – List by the three (3) most recent					
Period of employ	ment	Franciscos	Lassian	Position	
From	То	Employer	Location		
2007	Today	FU	Nicosia	Professor	
1994	2007	FIT	Nicosia	Associate Professor	

Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other ten (10) selected – <i>categories may overlap</i> . (max total 15)						
Ref. Number	Year	Title	Other authors	Journal / Conference/ Publisher	Vol.	Pages
1	2018	Improvements on the cross correlation algorithm used for tracking fractional Bragg grating wavelength shifts in multimode fibres	Theodosiou A., Kalli K.	Optical Fiber Technology	36	
2	2018	Carbon Cantilever Beam Health Inspection Using a Polymer Fiber Bragg Grating Array	Theodosiou, A. Kalli, K.	Journal of Lightwave Technology	36	
3	2017	Plane-by-Plane Femtosecond Laser Inscription Method for Single-Peak Bragg Gratings in Multimode CYTOP Polymer Optical Fiber	Theodosiou A., Lacraz A., Stassis A., Kalli K.	Journal of Lightwave Technology	35	
4	2017	Optical beam shaping design through optimization of a radial phase mask	Agarwal S. Jolivot, S Mohammed,W.	ECTI-CON 2017	-	
5	2017	Accurate and Fast Demodulation Algorithm for Multipeak FBG Reflection Spectra Using a Combination of Cross Correlation and Hilbert Transformation	Theodosiou, A. Kalli, K.	Journal of Lightwave Technology	35	
6	2017	Demonstration of Polarization-Independent Surface Plasmon Resonance Polymer Waveguide for Refractive Index Sensing	Viphavakit, C., Patchoo, W., Boonruang, S., Mohammed, W.,Rahman, B.M.A.	Journal of Lightwave Technology	35	
7	2017	Health monitoring of carbon cantilever using femtosecond laser inscribed FBG array in gradient-index CYTOP polymer fibre	Theodosiou, A., Kalli, K	Proceedings of SPIE - The International Society for Optical Engineering	-	
8	2017	Dynamic damage detection of a cantilever carbon beam using a FBG array inscribed	Theodosiou, A., Kalli, K.	International Conf on POF Proceedings	-	

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		in polymer gradient index multimode CYTOP fibre			
9	2016	Modified fs-Laser Inscribed FBG Array for Rapid Mode Shape Capture of Free-Free Vibrating Beams	Theodosiou A., Lacraz A., Polis M., Stassis, A.	EEE Photonics Technology Letters	28
10	2016	Surface plasmon resonance-enhanced light interaction in an integrated ormocomp nanowire	Viphavakit, C. Boonruang, S. Themistos C., Mohammed W. Rahman B.M.A.	Optical and Quantum Electronic	48
11	2016	Comparative study of multimode CYTOP graded index and single-mode silica fibre Bragg grating array for the mode shape capturing of a free-free metal beam	Theodosiou A., Polis M., Lacraz A., Stassis, A.	Proceedings of SPIE - The International Society for Optical Engineering	-
12	2015	Optimization of a horizontal slot waveguide biosensor to detect DNA hybridization	Viphavakit, C., Themistos, C., Kalli, K., Rahman, B.M.A.	Applied Optics	54
13	2014	Characterization of polymer nanowires fabricated using the nanoimprint method	Viphavakit, C., Atthi, N., Boonruang, S. Rahman, B.M.A.	Proceedings of SPIE - The International Society for Optical Engineering	-
14	2012	Superstructure Fiber Gratings Via Single_ Step Femtosecond Laser	Koutsides C., Davies E.,Kalli K., Allsop T, Webb D, and Zhang L	Journal Of Lightwave Technology	30
15	2011	Spectral characteristics and thermal evolution of long period gratings in photonic crystal fibre fabricated by NIR femtosecond laser using point-by-point inscription	T. Allsop, K. Kalli, G. Smith, K. Zhou, J. Petrovic , D. J. Webb and I. Bennion	Journal of Optical Society of America, B	28

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## Research Projects. List the five (5) more recent and other ten (10) selected – categories may overlap (max total 15) Ref. Title Funded by **Proiect Role\*** Date Number Tripod: Training and Research Involving FP7 2013-2017 Associate Partner Polymer Optical Devices Strong-Ties: Strengthening Training and 2 2011-2015 FP7 Research through Networking and **Project Partner** Globalization of Teaching in Engineering Studies 3 2009-2013 Fluidics: Development of nanoscale-optic Research and micro-fluidic devices using femtosecond Promotion Research Partner Foundation laser **Polyfiltro:** Prototype Polymer Optical Bragg Research 4 2006-2009 Project and Scientific Filter Based on Laser Inscription. Proton Promotion Coordinator Lithography and Nano-coatings Foundation 5 2006-2009 Sonocardio: Feasibility Study for the Research Treatment of Heart Arrhythmias Using Partner - Researcher Promotion Therapeutic Ultrasound Guided by MRI Foundation 6 2004-2009 Femto: Novel Grating Structures in Fiber Research Optics Using Femtosecond Laser Project partner – Researcher Promotion Foundation 7 2004-2007 **Optopes:** Specialized Optical Filters in Research Photonic Crystal Fibers Project partner – Researcher Promotion Foundation 2003-2005 **Polyfiltro:** Optical Filters Using Bragg 8 Research Gratings in Polymer Optical Fibers Promotion Project partner – Researcher Foundation 2001-2003 **Ultrasound II:** Therapeutic ultrasound 9 Research guided with MRI imaging Promotion Project partner – Researcher Foundation

<sup>\*</sup>Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher

Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Period	Organization	Title of Position or Service	Key Activities	
1	2014 - Today	ABET	Program Evaluator		
2	2010 – Today	SPIE Optics: MicrostructuredOptical Fibers	Program Committee Member		
3	2017 - Today	CENELEC- ETSI Smart and Sustainable Cities and Communities	Committee Member		
4	2017 - Today	Committee CYS/MC 13 - Electrical and Electronic Equipment andElectrical and Electronic Medical Device	Committee Member		
5	2016 –2019	EAC	Member of Board of Directors		
6	2017 – 2020	Cyprus Employers and IndustrialistsFederation	Member of Board of Directors		

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)				
Ref. Number	Date	Title	Awarded by:	
1	1993	Research Excellence Award	Iowa State University	
2	From 2011	IEEE Senior Member	IEEE	
3	From 2015	OSA Senior Member	Optical Society of America	

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