



Academic Personnel Short Profile / Short CV

University:	Frederick University
Surname:	Lontos
Name:	Antonios
Rank/Position:	Professor
School:	Engineering
Department:	Mechanical Engineering
Scientific Domain:	Engineering Design and Analysis – Specialization: Mechanical Engineering Design and Machine Elements

Academic qualifications

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD in Mechanical Engineering	2002	Aristotle's University of Thessaloniki	Mechanical Engineering	Determination of The Mechanical and Creep Behaviour of Mono and Multi-Layer Thick Thermal Sprayed Coatings, Operating Under Dynamic or Static Loads
BSc-MSc (5 Years)	1998	Aristotle's University of Thessaloniki	Mechanical Engineering	Coated cutting tools and milling machining

Employment history in Academic Institutions/Research Centers

Period of employment		Employer	Location	Position
From	To			
2022	Present	Frederick University, Frederick Research Center	Cyprus	Professor
2015	2022	Frederick University, Frederick Research Center	Cyprus	Associate Professor
2007	2015	Frederick University, Frederick Research Center	Cyprus	Assistant Professor
2003	2007	Frederick Institute of Technology, Frederick Research Center	Cyprus	Lecturer – Researcher
1998	2002	Electromechanical installations D. SAMARAS	Greece	Electromechanical installations engineer
2000	2002	ATLANTIS Consulting S.A., Q-PLAN A.E.	Greece	Quality control systems engineer
1998	2003	Laboratory for Machine Tools and Manufacturing Engineering, A.U.TH	Greece	Research assistant

Key refereed journal papers, monographs, books, conference publications etc.						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2020	The impact of two scatter correction methods on I-131 AC-SPECT images using an anthropomorphic phantom with variable sizes of thyroid remnants	A. Hadjiconstanti, K. Michael, Th. Leontioy, S. Panagi, S. Frangos, Y. Parpottas			

2	2020	The preliminary simulated effect of stretching and blowing combination on the wall thickness distribution of 1.5Lt PET bottle during ISBM process	A. Gregoriou	Fibers and Polymers, Springer		
3	2018	A numerical investigation of the effect of preform length for the fabrication of 1.5Lt PET bottle through the injection stretch blow molding process	A. Gregoriou	MATEC Web of Conferences, ICEAF-V 2018	188	
4	2016	Construction of Inflatable Lungs to Simulate Respiratory Motion in Myocardial Perfusion Imaging	A. Antoniou, I. Chrysanthou, S. Christofides, O. Demetriadou, Chr. Panagidis, Ch. Yiannakkaras, D. Kaolis, Y. Parpottas	XIV Mediterranean Conference on Medical and Biological, 57 Engineering and Computing 2016, Springer International Publishing Switzerland 2016, IFMBE Proceedings		
5	2016	Characterization of attenuation and respiratory motion artifacts and their influence on SPECT MP image evaluation using a dynamic phantom assembly with variable cardiac defects	Y. Parpottas, I. Chrysanthou	Journal of Nuclear Cardiology, Springer ISSN 1071-3581		
6	2013	The effect of kyphoplasty parameters on the dynamic load transfer within the lumbar spine considering the response of a bio-realistic spine segment	A. Tsouknidas, S. Savvakis, Y. Asaniotis, K. Anagnostidis, N. Michailidis	Clinical Biomechanics, Elsevier, Clinical Biomechanics	vol. 28	pp. 949–955
7	2012	Nonintrusive 3D Reconstruction of Human Bone Models to Simulate their Bio-mechanical Response	A. Tsouknidas, S. Savvakis, N. Michailidis	3D Research Center Kwangwoon University and Springer		pp. 1-10
8	2012	Performance of Coated Dies in Hot Extrusion of Aluminum	K. Efstathiou, G. Demosthenous, F. Soukatzidis, M. Pappa, N. Michailidis	Journal of the Balkan Tribological Association	Vol. 18 No 1	pp. 1–17

9	2012	A new CNC turning canned cycle for revolved parts with free-form profile,	S. Omirou, S. Rossides	The International Journal of Advanced Manufacturing Technology	Vol. 60 Issue 1	pp. 201- 209
10	2010	Application of Appropriate Coatings on Extrusion Dies And Evaluation of Their Performance During Hot Extrusion of Aluminum	G. Demosthenous, F. Soukatzidis,	Proceedings of the ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010 July 12-14, 2010, Istanbul, Turkey		

Exhibitions					
Ref. Number	Date	Topic	International / Local	Location	Role in Exhibition
1					
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Research Projects				
Ref. Number	Date	Title	Funded by	Project Role

1	2017-21	Biomaterials and advanced physical techniques for regenerative cardiology and neurology (BIONECA)	COST Action CA16122	MC Member
2	2016-19	Project “Hippoactive”, L.K. RehabTech Ltd, Frederick University	E.U. Structural Funds and the Republic of Cyprus, under the Operational Programme 2014-2020 - Competitiveness and Sustainable Development - Scheme for the Support of Business Innovation - Development of Innovative Products, Services and Processes, of the Ministry of Energy, Commerce, Industry and Tourism. Budget €75000	Principal investigator
3	2016-18	Project “Certification of a new type of wind turbine”, O.G.T Greentech Ltd, Kassinis International Consulting Ltd, Frederick University.	E.U. Structural Funds and the Republic of Cyprus, under the Operational Programme 2014-2020 - Competitiveness and Sustainable Development - Scheme for the Support of Business Innovation - Development of Innovative Products, Services and Processes, of the Ministry of Energy, Commerce, Industry and Tourism.	Principal investigator
4	2012-15	FEM supported determination of the biomechanical response of the human spine considering all musculo-skeletal characteristics, Acronym: BioSpine, Project ID: 3227	Greek Ministry of Education, Lifelong Learning and Religious Affairs, Support of Postdoctoral Researchers	Member of the Post-Doctoral Committee
5	2012-14	Optimizing the diagnostic value of SPECT myocardial perfusion images under the influence of respiratory	Cyprus Research Promotion Foundation, ΥΓΕΙΑ/ΔΥΓΕΙΑ/0311(BIE)/27	Research Assistant

		motion, (Development of a respiratory motion phantom)		
6	2011-13	Design and development of a low permeability measuring system for construction materials	Cyprus Research Promotion Foundation, Επιχειρήσεις/Προϊόν/0609/112	Research Assistant
7	2010-12	Increase of the passive safety of cars for the protection of pedestrians by Crash Resistant Adhesive Bonding of attachments on LACquered Surfaces (CRAB LACS)	Cyprus Research Promotion Foundation, CORNET II/0809/01	Principal investigator
8	2006-09	Improvement of the working life of aluminum extrusion dies by means of advance and innovative procedures	Cyprus Research Promotion Foundation, ΑΚΙΠΕ/0506/06, Funding CYP 81.795	Principal investigator
9	2006-09	Reconstruction of Archaeological Findings by Computer Tomographies and Rapid Prototyping Methods	EUREKA, E!3881 FACTORY	Principal investigator
10	2006-09	Development of new and innovative computational and experimental methodologies for the characterization of thin hard coatings performance	Cyprus Research Promotion Foundation, TEXNO/0506/14	Principal investigator

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2014-17	Cyprus Organisation for Standardisation (CYS)	Chairman of the National Technical Committee "CYS/TC 16 - Safety of Go-Karts facilities	
2	2011-15	Cyprus Universities	Member of the Steering Committee for the Development and Operation of Enterprise Liaison Offices in Universities Operating in the Republic of	

			Cyprus, Frederick University Representative	
3	2007-13	Cyprus Research Promotion Foundation (ΙΠΕ), National Contact Point for the Programmes of the Seventh Framework Programme FP7 (2007-2013)	Invited Member of the National Advisory Scientific Group in the field of “Nanosciences, Nanotechnologies, Materials and new Production Technologies (NMP)”	
4	2006-2012	COST	National Representative in the COST (European Cooperation in Science and Technology) Domain Committee for Materials, Physical and Nanosciences (MPNS)	
5	2011-present		Member of the Editorial board, “International Journal of Manufacturing Science and Engineering (IJMSE)”	
6	2011-12	Cyprus National Bioethics Committee	Member of the Review Bioethics Committee for Biomedical Research	

Awards / International Recognition			
Ref. Number	Date	Title	Awarded by:
1	2021	“Most Engaging Co-Curricular Activity Award”, Formula Racing Team	Frederick University
2	2019	Category Best Learning Experience: «Active Students through Co-Teaching Activities, FUF Racing Team	Cyprus Education Leaders Awards 2019

3	2005	Dedicated work in research and development and the significant contribution in research projects in the period 2005-2006	Frederick Institute of Technology
4	2004	Dedicated work in research and development and the significant contribution in research projects in the period 2004-2005	Frederick Institute of Technology
5	2003	Dedicated work in research and development and the significant contribution in research projects in the period 2003-2004	Frederick Institute of Technology
6	1999-2000	Financing as new researcher by the Supporting Program of Researchers (ΠΕΝΕΔ 99)	Aristoteles University of Thessaloniki
7	1998-2002	Financing by the committee of researches of A.U.TH during Doctoral Thesis	Aristoteles University of Thessaloniki
8	1993-1998	Scholarship from the Cypriot Democracy during undergraduate studies	Republic of Cyprus