FREDERICK UNIVERSITY

Academic Personnel Short Profile / Short CV

University:	Frederick University
Surname:	Xydas
Name:	Evagoras
Rank/Position:	Assistant Professor
School:	Engineering
Department:	Mechanical Engineering
Scientific Domain:	Automotive Dynamics and Control, Automotive Mechatronics and Communication, Autonomous Drive

Academic qualifications

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD Mechanical Engineering	2011	University of Cyprus	Mechanical and Manufacturing Engineering	Upper Limb Rehabilitation of People with Neuro-Disabilities with the use of Haptic Interfaces
MSc Assistive Technology	2004	King's College London	Centre for Rehabilitation Engineering	An investigation of stair climbing biomechanics of elderly people using accelerometry, as a basis for the design and testing of a stair climbing assistive device
BSc Mechanical Engineering	2002	Budapest University of Technology and Economics	Mechanical Engineering	Analysis and design of a disturbance-compensation control system
HND Mechanical Engineering	1998	Higher Technical Institute	Mechanical Engineering	Data acquisition system for thermal properties of materials

Employment history in Academic Institutions/Research Centers				
Period of employment		Employer	Location	Position
From	To			
2022	-	Frederick University	Cyprus	Assistant Professor
2017	-	Irerobot ltd	Cyprus	R&D Engineer
2016	2018	Nazarbayev University	Kazakhstan	Assistant Professor
2013	2016	University of Cyprus	Cyprus	Special Teaching Stuff

Key *refereed* journal papers, monographs, books, conference publications etc.						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2020	Audiotactile integration in the Pacinian corpuscle's maximum sensitivity frequency range.	Abdikadirova Banu & Praliyev Nurgeldy	Attention, Perception and Psychophysics, Springer		
2	2018	Planar conformity of movements in 3D reaching tasks for persons with Multiple Sclerosis	Loucas S. Louca	Human Movement Science, Elsevier		
3	2019	Synthesis and Optimization Considerations for a Knee Orthosis Based on a Watt's Six-Bar Linkage.	Abdikadirova Banu and Konstantinos Kostas	Wearable Robotics: Challenges and Trends. Biosystems & Biorobotics. Springer, Cham.	vol 22.	
4	2018	Minimally Actuated Four-Bar Linkages for Upper Limb Rehabilitation. In: Husty M., Hofbaur M. (eds) Cham.	Andreas Mueller and Loucas S. Louca	New Trends in Medical and Service Robots. MESROB 2016. Mechanisms and Machine Science, Springer Cham.	vol 48.	

5	2016	Effect of Links' Center of Gravity Position on the Performance of a Four-Bar Linkage as an Upper Limb Rehabilitation Mechanism: A Parametric Study.	Panagiotis Herodotou, Loucas S. Louca and Andreas Mueller	XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016. IFMBE Proceedings, Springer, Cham	vol 57.	
6	2019	Effect of the frequency on vibrotactile sound detection	Banu Abdikadirova and Nurgeldy Praliyev	International Conference on Human Computer Interaction Theory and Applications (HUCAPP), Scitepress		
7	2018	Flexibility in rehabilitation with the use of 1-DOF linkages" 4	Andreas Mueller	1st Mechanisms and Robotics Conference (MR), ASME IDETC/CIE, Quebec, CA.		
8	2015	Analysis and Passive Control of a fourbar Linkage for the Rehabilitation of Upper-Limb Motion	Loucas S. Louca & Andreas Mueller	ASME Dynamics Systems and Control Conference (DSCC).		
9	2015	Minimally Actuated 4-bar Linkages for Upper Limb Rehabilitation: Performance Analysis with Forward and Inverse Dynamics	Andreas Mueller	39th Mechanisms and Robotics Conference (MR), ASME IDETC/CIE,		

				Boston, MA, USA.		
10	2014	Synthesis and Analysis of a Chebyschev's Straight Line FourBar Linkage for Generating a Minimum-Jerk Velocity Profile		38th Mechanisms and Robotics Conference (MR), ASME IDETC/CIE, Buffalo, New York, USA.		
11	2012	Robotic Rehabilitation of People with MS with the use of a Haptic Interface Based Nine-Hole Pegboard Test",	Loucas S. Louca	ASME Dynamic Systems and Control Conference, Florida, USA.		
12	2008	Identification of Three-Dimensional Kinematic Traits in Reaching Tasks with the use of a Haptic Nine-Hole Peg-Board Test: Comparison between Healthy People and People with Multiple Sclerosis",	Loucas S. Louca	IEEE BioRob Conference, October 19-22, Scottsdale, Arizona, USA.		
13	2008	Upper Limb Assessment of People with Multiple Sclerosis with the use of a Haptic Nine Hole Peg-Board Test	Loucas S. Louca	9th ASME Engineering Systems Design and Analysis Conference, July 7-9, Haifa, Israel.		
14	2007	Upper Limb Motion Profile during Small to Medium Time-Limited Reaching Tasks in a VR Based Robotic Training Environment",	Loucas S. Louca	ASME International Mechanical Engineering Congress and Exposition		

				(IMECE), Seattle, WA, USA.		
15	2007	Design and Development of a Haptic Peg-Board Exercise for the Rehabilitation of People with Multiple Sclerosis	Loucas S. Louca	IEEE 10th International Conf. on Rehab. Robotics (ICORR), Noordwijk, The Netherlands.		
16	2006	Bond Graph Based Modal Representations and Model Reduction",	Loucas S. Louca	ASME International Mechanical Engineering Congress and Exposition (IMECE), Chicago, IL, USA.		

Research Projects

Ref. Number	Date	Title	Funded by	Project Role
1	June 2022	ACETT: Auditory Communication Enhancement Through Touch	RIF Cyprus	Coordinator
2	April 2022	Be-Pro: Better Exo Project	RIF Cyprus	Coordinator
3	June 2017	Seventh Sense	Ministry of Energy, Commerce and Industry and European Structural Funds	Coordinator

4	2017	HYST (Non-linear hysteretic damping of graded nanocomposite honeycomb structures for vibration-optimised design of artificial space satellites) in collaboration with Prof. Christos Spitas at Nazarbayev University	Kazakh Ministry od Education	Co-investigator
5	2018	Optimization techniques in the design of mechanical and aerodynamic structures	Nazarbayev University	Co-investigator
6	2019	Real-time music modification based on physiological parameters (RUMBA)	University of Nicosia	Sub-contracted through Irerobot