



### Academic Personnel Short Profile / Short CV

<b>University:</b>	University of Nicosia
<b>Surname:</b>	Iordanou
<b>Name:</b>	Harry
<b>Rank/Position:</b>	Adjunct Faculty
<b>Faculty:</b>	Sciences and Engineering
<b>Department:</b>	Engineering
<b>Scientific Domain: *</b>	Mechanical Engineering – CAD, System Kinematics, Dynamics, Vibrations, Controls and Robotics

*\* Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	1998	Queen's University, Kingston, Canada	Mechanical Engineering	Automation and Control - Nonlinear Control on Nonlinear Systems
MSc in Engineering	1994	Queen's University, Kingston, Canada	Mechanical Engineering	Robustness of Sliding Mode Control
BEng in Mechanical Engineering	1992	Technical University of Nova Scotia, Canada	Mechanical Engineering	
Certificate in Pure and Applied Science	1989	Acadia University, Canada	Certificate in Applied Science	



### Employment history in Academic Institutions/Research Centers–List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2020	Today	University of Nicosia	Nicosia, Cyprus	Adjunct Faculty
2003	2019	Hellas S Consortium Ltd	Nicosia, Cyprus	Space Segment Manager
1998	2002	MDR at Canadian Space Agency	St. Hubert, Quebec, Canada	Mission Operations Analyst- International Space Station Robotic Assembly

**Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected – (max total 10)**

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2001	Effects of Space Station and Space Shuttle Attitude Control and Reboost on SSRMS operations: A Case Study on Assembly Flights 6A and 7A	Podwalski K. and Kovacs J.	International Artificial Intelligence & Robotics Symposium, ISAIRAS 2001	ISAIRAS 2001 Proceedings	-
2	2000	Feasibility Study for EF / ELM-ES Translation on MT <sup>2</sup> , presented at the International Symposium on Robotics	Axon, R.	ISR 2000 Proceedings	ISR 2000 Proceedings	-
3	1999	Design and Tuning of Discrete Sliding Mode Control with Application to a Pneumatic Positioning System	Surgenor, B.	IEEE Transactions on Control Systems Technology, Sept. 1999	IEEE CST 1999 Proceedings	-
4	1995	Experimental Evaluation of a Backlash Inverter as Applied to a Servomotor with Gear	Dean, R.H.	IEEE Conference on Control Applications Proceedings	IEEE CCA 1995 Proceedings	-
5	1994	A Study on the Performance Improvement of Discrete Sliding Mode Control	Surgenor, B. and Pieper, J.	American Control Conference Proceedings, ACC'95	ACC 95 Proceedings	-
6	1994	Sliding Mode Control versus Linear Quadratic Control: A Robustness Evaluation with an Inverted Pendulum	Surgenor, B.	Conference on Control Applications Proceedings, CCA'95	CCA 95 Proceedings	-
7	1994	Robustness Evaluation of Novel Discrete Sliding Mode Control Versus Linear Quadratic Control	Surgenor, B.	IEEE Transactions on Control Systems Technology	IEEE CST 1997 Vol.5, No.2	254-260

**Exhibitions (where applicable).List the five (5) more recent and other five (5) selected.  
(max total 10)**

Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
1	Oct 22-23, 2013	Experiences during the redesign of Satellite Control Centers	International	Maryland, USA	Presenter (Kratos User's Conference)
2	May 17-21, 2004	HELLAS SAT: The birth of a new satellite operator	International	Montreal, Canada	Author/Presenter (SPACEOPS 2004)
3	Sept 10-12, 1997	Design, Implementation and Fine-Tuning of Discrete Sliding Mode Control Sept.	International	Bath, UK	Author/Presenter (10th Bath International Fluid Power Workshop)
4	Sept 10-12, 1997	Experience with a Pneumatic Cartesian Robot and the Need for a Practical Friction Compensator	International	Bath, UK	Author/Presenter (10th Bath International Fluid Power Workshop)
5	Sept 9-11, 1996	Discrete Versus Continuous Sliding Mode Control of a Pneumatic Positioning System	International	Bath, UK	Author/Presenter (9th Bath International Fluid Power Workshop)
6	Nov. 9-11, 1994	Experience with Advanced Position Control on Pneumatic Systems	International	Chicago, USA	Author/Presenter (IFAC Workshop: Trends in Hydraulics-Pneumatics)
7	Nov.27-Dec.2, 1994	Electric Versus Pneumatic Servo Control: A Case Study with a Gantry Crane	International	New Orleans,USA	Author/Presenter (Fluid Power Systems and Technology Symposium)
8	Sept 28-29, 1995	Model-Based Position Control of a Pneumatic Manipulator	International	Montreal, Canada	Author/Presenter (CSLM Forum)

\* Specify venue, geographic location etc

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2019	Multi-Stage Wind-Turbine for Electric-Hybrid Vehicles	SEEI LTD	Scientific/Project Coordinator, Patent awarded
2	1999-2002	Optimisation of Kinematic and Dynamic Analyses for Space Robotics	MDRobotics / Canadian Space Agency	Research Team Member
3	1996	Pneumatic Test Rig for Evaluation of stress on Soldiers carrying loaded backpacks	Clinical Mechanics Group, Department of National Defence, Canada	Project Designer and Research Associate
4	1998-1999	Simulation Models for Space Robotics (SSRMS) Operation	SPAR Aerospace Ltd	Research Team Member
5	1994-1998	Automation and Control - Nonlinear Control on Nonlinear Systems	Queen's University	Researcher

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



**Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees.  
List the five (5) more recent (Optional Entry)**

Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2017-2019	Arabsat	Consultant for Arabsat's 6 <sup>th</sup> generation spacecraft	Satellite Manufacturing and Deployment, In-Orbit Performance tests
2	2014-2017	Hellas S Consortium	HS3-IS Satellite Project Manager	Satellite Specifications, Manufacturing and Testing, Launch, Deployment, In-Orbit tests and Spacecraft Acceptance
3	1999-2002	MDR / CSA	POC for ISS Attitude Control on SSRMS	Flight Rules for ISS attitude control on SSRMS operations



**Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected.  
(max total 10)(Optional Entry)**

Ref. Number	Date	Title	Awarded by:
1	2004	Satellite Engineering Diploma	EADS-ASTRIUM, France
2	2002	1) Achievement Award for support on SSRMS Installation on ISS, <i>and</i> 2) Achievement Award for support on SSRMS Operations	NASA, USA
3	2000	Honorary Award Astronaut Training	Canadian Space Agency, Canada
4	1997	Best Teaching Assistant Award	Queen's University, Canada
5	1994, 1996, 1997	Ontario Graduate Scholarship	Government of Ontario, Canada
6	1992-1997	Queen's Graduate Award	Queen's University, Canada
7	1993, 1995	McLaughlin Research Assistantship, and Dean's Award for Academic Excellence (1993)	Queen's University, Canada
8	1992	Academic Distinction	Technical University of Nova Scotia, Canada
9	1988	Dean's List Scholar	Acadia University, Canada
10	1987-1992	Canadian Commonwealth Scholarship	Government of Canada



**Other Achievements. List the five (5) more recent and other five (5) selected.  
(max total 10)(Optional Entry)**

Ref. Number	Date	Title	Key Activities:
1	2020	UNIC: New Student Orientation	Presenter
2	2020	UNIC Webinar: From Concept to Production – how a spacecraft is born	Presenter
3	2019	Robotics Consultant to Cyprus National Robotics Team (Epiteugma)	Consultant to National team: Bronze Award for Innovation in Engineering at the World First Global Challenge (FGC) 2019
4	2009	Small GEO	WP manager