



Academic Personnel Short Profile / Short CV

University:	Frederick University
Surname:	Polycarpou
Name:	Alexis
Rank/Position:	Associate Professor
School:	Engineering
Department:	Electrical Engineering, Computer Engineering and Informatics
Scientific Domain:	Power System analysis and power quality – Specialization: Voltage Sags in Electrical Power Systems

Academic qualifications				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	2006	UWE, UK	Electrical and Electronic Engineering	Identification and Analysis of Voltage Sag Indices in Power Systems
MSc (EPS)	2001	Bath University, UK	Electrical Engineering	Site Matching of Wind Turbine Generators
BEng (Hons)	2000	UWE, UK	Electrical and Electronic Engineering	Assessment of Power System Voltage Stability Through Simulation

Employment history in Academic Institutions/Research Centers				
Period of employment		Employer	Location	Position
From	To			
2007/9	Present	Frederick University	Nicosia, Cyprus	Associate Professor
2006/05	2007/05	Siemens Automation and Drives, DE	Amberg, Germany	International/Development Engineer
2002/09	2006/05	UWE	Bristol, UK	Visiting Lecturer

Key refereed journal papers, monographs, books, conference publications etc.						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	Methodology for Identification of the Optimal Structure of Hybrid AC-DC Microgrids and Micro Energy Hubs	Chrysanthos Charalambous, Venizelos Efthymiou, George E Georghiou	IEEE UPEC	1	1-6
2	2022	<i>Mitigation of Transient Ground Potential Rise in Gas Insulated Substations during Very Fast Transient Overvoltage</i>	Muresan Alexandru, Levente Czumbil, Hassan Nouri, Roberto Andolfato, Dan D. Micu	EPSR	207/10 7824	
3	2021	Custom Outlier Detection for Electrical Energy Consumption Data Applied in Case of Demand Response in Block of Buildings	Jurj DI, Czumbil L, Bârgăuan B, Ceclan A, Micu DD	Sensors, mdpi	21(9), 2946	1-30
4	2020	Modelling and Evaluation of the Baseline Energy Consumption and the KPIs in TUCN Buildings within a Demand Response Programme – A Case Study	Mihaela Cretu, Levente Czumbil, Bogdan Bargauan, Andrei Ceclan, Alexandru Berciu, Renato Rizzo, Dan D. Micu	IET Renewable Power Generation	Vol. 14, issue 15	2864- 2875
5	2019	Synchronous reluctance machine geometry optimisation through a genetic algorithm based technique	Mircea Ruba, Florin Jurca, Levente Czumbil, Dan D Micu, Claudia Martis, Renato Rizzo	IET Electric Power Applications	12	431- 438
6	2018	Power management for hybrid distributed generation systems	H Yousef, AH Al-Badi	International Journal of Sustainable Engineering	11	65-74
7	2018	Energy saving through replacement of traffic light systems	Marios S Georgiou	2018 IEEE International Energy Conference (ENERGYCON)	1	1-5
8	2017	Performance enhanced RES current controller with reduced computational complexity	Zunaib Ali, Nicholas Christofides	2017 International Conference on Modern Power Systems (MPS)	1	1-5
9	2017	New methodology for the prediction of motor starting effect on bus voltages of interconnected power systems	Hassan Nouri, Ali Azizpour	American Journal of Electrical and Electronic Engineering/ Science	4	139- 147

				and Education		
10	2016	Comparison of MH and LED performance for sport lighting application	Ioulia Yiannou, Nicholas Christofides	IET Digital Library	1	1-5
11	2012	Development and Investigation of a Proposed Voltage Sag Index	-	International Journal of Energy Optimization and Engineering (IJEQE)	1	72-91
12	2011	Power quality and voltage sag indices in electrical power systems	-	InTech	BOOK	2011

Research Projects					
Ref. Number	Date	Title	Funded by	Project Role	
1	2023	REALISATION-GREEN-CLOUD	CODEVELOP-GT	<i>Research Team Member</i>	
2	2020	LightSense	Research and Innovation Foundation, Cyprus	<i>Research Team Member</i>	
3	2018	Zero Energy Heating and Cooling system	Ministry of Energy Commerce and Industry	<i>Research Team Member</i>	
4	2017	VIOLET	Interreg Europe	Cyprus Technical advisory committee member	
5	2015	Power Management System	MCIT	Work Package Leader	
6	2013	Energy benefits occurring from replacement of HPS lights by LED ones for non-Domestic Applications.	Project LED CY Ltd, Nicosia, Cyprus	Project Coordinator	
7	2013	Investigation of Fuse Related Problems in Distribution Switchgear Applications	SIEMENS AG, Nuremberg, Germany	Work Package Leader	
8	2011	Investigation of a Building Energy Efficiency Improvement Technique	NeroControl Ltd, Nicosia, Cyprus	Project Coordinator	

9	2006	Identification of Voltage Sag indices in Electrical Power Systems	Power systems and Electronics Research Group, UWE, UK	Principal Researcher
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Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2023-2024	IET	Member of Communities Resource Committee (CRC)	Appointments WG chair Volunteer engagement WG member.
2	2020-2022	IET	Chair CC-EMEA	Ensure the effective and productive operation of the IET CC in the Europe, Middle East and Africa Region.
3	2019-2020	IET	Vice Chair CC-EMEA	Project Development Working Group Leader.
4	2018-2021	IET CY LN	Chair	Ensure the effective and productive operation of the Local Network.
5	2008-2018	IET CY LN	Young Professionals Chair	Represented local engineers and technicians in the IET LN, and promoted Engineering and lifelong learning through events and activities.