

Name: Assistant Prof George Dekoulis

Job Title: Assistant Professor in Computing

Studies:

2001-2007 PhD in Reconfigurable Computing & Communications Systems, Computing & Communications Department, Lancaster University, Lancaster, UK

1997-2001 1st Class Distinctions BEng (Hons) Communications Engineering, Faculty of Computing, Engineering and Media, De Montfort University, Leicester, UK.

Work experience:

- 2/2020 - CTL Eurocollege, Cyprus, Assistant Professor in Computing
- 12/2019 - European Computer Competence Certificate (ECCC), Cyprus, Academic Director, Chief Trainer & Examiner in all Computer Science modules <http://www.eccc.cy/contact/>
- 8/2018 - Prometheus Space Technologies, Cyprus & Greece, Chief Experience Officer (CXO), Professor in Space Computing
- 5/2018 - Pearson Qualifications International, Cyprus & UK, Part-Time Invigilator & Examiner in LCCI, BTEC and GCSE courses
- 9/2017-8/2019 Aerospace Engineering Institute (AEI), Cyprus & UK, Professor in Space Computing
- 9/2015-8/2017 University of Cyprus, Cyprus, Professor in Computer Science
- 2/2016-6/2017 American University of Cyprus (AUCY), Cyprus, Part-Time Professor in Computer Science
- 1/2008-8/2015 Frederick University, Cyprus, Lecturer in Computer Science
- 9/2004-12/2007 Frederick Institute of Technology, Cyprus, Lecturer in Computer Science
- 4/2002-8/2004 Lancaster University, UK, Research Associate in Communications Systems
- 10/2001-3/2002 Lancaster University, UK, Communications Systems Designer

6/1999-6/2000 Electromech D & A, UK, R & D Systems Designer

6/1998-9/1998 Telephone-Telecommunication Company of Greece (OTE),
Greece, Trainee in Communications Systems

6/1997-9/1997 Telephone-Telecommunication Company of Greece (OTE),
Greece, Trainee in Communications Systems

Research:

Has managed known funding of > 20 M€ for over 30 major research projects. External collaborator to NASA's Jet Propulsion Laboratory (JPL), USA. Currently working on the International Charybdis Space Mission. Chief Experience Officer (CXO) in Space Computing and Honorary Professor at Prometheus Space Technologies, Greece.

Member in Councils:

Founder and Chair of the IEEE Aerospace & Electronic Systems Society (AESS), Cyprus

NASA Jet Propulsion Laboratory (JPL) Task Group on Earth Observations (GEO)

NASA JPL GEO System of Systems (GEOSS) Task Group

Committee for Space Research (COSPAR)

MIEEE

Aerospace and Electronic Systems Society, Communications Society,

Geoscience and Remote Sensing Society, Nuclear and Plasma Sciences Society

IEEE Council on Electronic Design Automation

IEEE Systems Council

IEEE Nanotechnology Council

IEEE Sensors Council

IEEE Nanotechnology Council

IEEE SCC42 WG2040 (Standard for Connected, Automated and Intelligent Vehicles: Overview and Architecture Working Group)

IEEE SCC42 WG2040.1 (Automated and Intelligent Vehicles: Definitions Working Group)

IEEE SCC42 AG1 (Global Policy Advisory Group)

IEEE Cloud Computing, Big Data, Software Defined Network Communities

Lifetime Member SPIE

MIET

ABI Fellow

RSGB

AUT

ICSES (International Computer Science and Engineering Society)

UK Radiocommunications Agency Task Group on HF/Ionospheric Propagation

COST271 European Co-operation in the field of Scientific and Technical Research

Sample Publications:

Books

G. Dekoulis, "**Big Data & Advanced Wireless Technologies**," Springer, In Press, 2021

G. Dekoulis, "**Ambient Intelligence**," InTech, In Press. To be published in 2021.

G. Dekoulis, "**Network-on Chip**," InTech, In Press. To be published in 2020.

G. Dekoulis, "**Robotics in Healthcare**," CRC, In Press, 2020

G. Dekoulis, "**Field Programmable Gate Arrays (FPGAs) II**," InTech, In Press. ISBN 978-1-83881-057-3 To be published in early 2020.

G. Dekoulis, "**Aerospace Control**," Springer, In Press, 2020

G. Dekoulis, "**Digital Image Processing**," Springer, In Press, 2020

G. Dekoulis, "**Signal Processing**," Springer, In Press, 2020

G. Dekoulis, "**Deep Learning with TensorFlow**," Springer, In Press, 2019

G. Dekoulis, "**Modulation in Electronics and Telecommunications**," InTech, In Press. To be published in 2020.

G. Dekoulis, "**Military Engineering**," InTech, ISBN 978-1-78923-954-6, February 2020.

G. Dekoulis, "**Autonomous Vehicles**," InTech, ISBN 978-953-51-6340-4, November 2018.

G. Dekoulis, "**Aerospace Engineering**," InTech, ISBN 978-1-83962-786-6, November 2019.

G. Dekoulis, "**Space Flight**," InTech, ISBN 978-953-51-5839-4, June 2018.

G. Dekoulis, "**Drones - Applications**," InTech, ISBN 978-1-78923-284-4, June 2018.

G. Dekoulis, "**Robotics**," InTech, ISBN 978-953-51-3635-4, December 2017.

G. Dekoulis, "**Field Programmable Gate Arrays (FPGAs)**," InTech, ISBN 978-953-51-3208-0, May 2017.

Encyclopedia Book Chapters

G. Dekoulis, "**Drones**," Invited contract-based work for the Enciclopedia Italiana Treccani, Roma, Italia, October 2019.

500+ book chapters, refereed journal articles, refereed proceedings and abstracts have been published. Technical reports were prepared for **NASA JPL (USA)**, European Space Agency (ESA), Prometheus Space Technologies, Aerospace Engineering Institute (AEI), Lancaster University (UK), IET (UK), Siemens (Germany), Electromech Ltd. (UK), Kawasaki (Japan), EADS (France & Germany), Airbus (France), British Aerospace (UK) and Bombardier (France).

International Recognition of Work & Awards:

International Professional Contribution

General Chair	Publications Chair / Track Chair	TPC	Book Editor / Journal Editor / Reviewer	Conference Reviewer	Workshops/ Forums	Seminars
4	11 / 11	411	17 / 10 / 727	461 conferences/ 2671 Tracks	5 / 1	2

Awards

2011 ABI Great Minds of the 21st Century Medal and Honorary Plaque for achievements in Space Computing

G. Dekoulis, N. Murphy, "Design and Evaluation of Novel Compact Helium Magnetometers and Magnetic Gradiometers for Earth and Planetary Science," NASA JPL Research Report, 2008.

2008 SPIE Lifetime Membership for the work on Space Interferometers:
G. Dekoulis, F. Honary, "Novel Reconfigurable Wide-Beam Radio Interferometer for Space Physics Instrumentation," SPIE Optical and Infrared Interferometry, Space, Vol. 7013, pp. 701358-1 – 701358-9, 2008.

2002-2006 EPSRC (Engineering and Physical Sciences Research Council) Total Research Studentship **\$19,000** for work on Space Computing projects.

2002-2003 IET Hudswell International Research Scholarship of **\$7,000** for

work

done on embedded reconfigurable Space Computing projects. This is the top scholarship that can be obtained from the largest in Europe engineering institute, IET, for funded by other organizations PhD research work.

2001-2002 PPARC (Particle Physics and Astronomy Research Council) Research Studentship **\$4,000** for work done on Space Computing projects

EPSRC, IET, PPARC and Lancaster University evaluated, in all cases, the research work by means of research progress reports before allocating the funds.

2000-2001 Nominated student representative of the Communications Engineering Department.

2001 Highest exam marks throughout the four years of undergraduate study.