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RESEARCH PROFILE AND PUBLICATIONS
2011-2014

FACULTY OF ENGINEERING
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INTRODUCTION

This publication lists the research activity of the Faculty of Engineering of the University of Cyprus undertaken in the years 2011-2014. This book presents information for each member of the Faculty’s academic staff, who is directly or indirectly related to research, such as membership in professional societies, international organisations or editorial boards, and participation in research programmes. The internal research programmes which are listed in this publication, have been approved by the Senate of the University of Cyprus.

Publications make up a sizeable part of the book and only published books, chapters and articles are included, while publications “in press” or “forthcoming” are not. The number of journal publications and conference proceedings is limited to a selection of best ten publications by each member of the academic staff.

Members of the academic staff are listed in alphabetic order within departments and the information outlined in all research profiles is based on electronic data received directly from members of the academic staff.

The book contains three appendices:

• Appendix I lists all the doctoral titles awarded by the Faculty of Engineering in alphabetic order within the period 2011-2014.

• Appendix II presents a list of abbreviated terms listed in this publication.

• Appendix III lists an index of the academic staff of the Faculty of Engineering in alphabetic order by surname.

This publication can be found on the University of Cyprus website at www.ucy.ac.cy/publications-en
At the Faculty of Engineering we aim at creating an environment that supports high-quality teaching and fosters multidisciplinary research and internationally recognized scholarship.

The Engineering Faculty at the University of Cyprus was established in 2001 and currently consists of the following departments: Department of Architecture (ARC), Department of Civil and Environmental Engineering (CEE), Department of Electrical and Computer Engineering (ECE), and Department of Mechanical and Manufacturing Engineering (MME).

The Faculty admitted its inaugural class of undergraduate students in September 2003 and produced its first graduates in June 2007. In Fall 2003, the Faculty launched its first PhD programmes and in Fall 2004 its first MSc programmes. Currently, all four departments offer undergraduate as well as postgraduate programmes of study.

Since its creation, the Faculty of Engineering has expanded rapidly, each year recruiting new faculty and admitting increasing numbers of undergraduate and graduate students. Throughout this development phase, the Faculty also set up the necessary laboratory and information technology infrastructure. This expansion also includes the creation of new postgraduate programmes, for example, "Petroleum Engineering" and "Energy Technologies and Sustainable Design," and the establishment of four multidisciplinary research centers: the Research Center for Sustainable Energy (FOSS), the Research Center for Intelligent Systems and Networks (KIOS), and the International Water Research Center (NIREAS).

The Departments and Centers have enjoyed considerable success in attracting research funding, including competitive grants from the European Research Council, the European Commission, and the Cyprus Research Promotion Foundation. Our vision is to continue offering an environment that supports high-quality research, teaching and scholarship, and to become the one of the leading Engineering Departments in Southeastern Europe, appreciated locally and recognized internationally for high standards in education and research.

Among our objectives and targets are: a) to recruit the best available faculty; b) to create a collaborative environment for research excellence; c) to offer our students first-class educational experience and training that is recognized by professionals and organizations in Cyprus and abroad; d) to assist Cyprus industry and society in terms of high technology and engineering applications.

Christoforos Hadjicostis
Dean
ACADEMIC STAFF

Nadia Charalambous
Assistant Professor

Christos A. Hadjichristos
Associate Professor

Odysseas Kontovourkis
Assistant Professor

Aimilios G. Michael
Lecturer

Maria Philokyprou
Assistant Professor

Marios C. Phocas
Associate Professor

Panayiota Pyla
Associate Professor

Andreas Savvides
Assistant Professor

Sokrates Stratis
Associate Professor
The Department of Architecture accepted its first undergraduate students in 2005. In 2008 the postgraduate course of study leading to the Ph.D. in Architecture was offered for the first time, while in 2011 the Department accepted its first postgraduate students in the interdepartmental postgraduate programme of the School of Engineering in Energy Technologies and Sustainable Design. Through the courses of study and research activities, the Department of Architecture aims at educating its students, researchers and graduates according to specific ethos, but one that also conforms to international standards, especially the wider European Union. Research activities of the Department focus on the areas of Architectural Theory and History, Architectural Communication Media, Architectural Technology and Urban Design.

The research activities of the faculty and the postgraduate courses of study aim at the transfer of new knowledge and innovation in the wider area of Architecture, on an interdisciplinary level. The research interests of the faculty cover thematic topics, such as: Space Syntax, Architecture Analysis, Architectural Practice, The Social Dimension of Architecture, Epistemology and Architecture History, Traditional and Modern Architecture, Environmental Theories in Architecture, Energy and Environmental Design and Analysis of Buildings, Digital Design, Technology and Intelligent Architecture, Construction Systems and Materials, Advanced Structural Concepts, Steel Buildings, Earthquake Resistant Buildings. In all cases, design-based research is highly important in our Department. This type of research is further enhanced by faculty participation in architectural competitions in collaboration with experts on related fields. The research infrastructure of the Department is supported by the interdisciplinary Archimedes Research Centre for Structural and Construction Technology, the lab for Digital Architecture and Prototype Systems Development, the Mesarch Lab for the History-Theory of Modern Architecture, as well as the Mediterranean Architecture Net.

Christos A. Hadjichristos
Chairperson
NADIA CHARALAMBOUS  ASSISTANT PROFESSOR
TEL.: 22892965, FAX: 22660834, E-mail: charalambous.nadia@ucy.ac.cy

STUDIES
Bartlett School of Architecture, University College London, University of London, U.K., B.Sc. in Architecture, Planning, Building and Environmental Studies, 1990
Bartlett School of Architecture, University College London, University of London, U.K., M.Sc. in Advanced Architectural Studies, 1992
Bartlett School of Architecture, University College London, University of London, U.K., Diploma in Architecture, 1993
National Technical University of Athens, Greece, Ph.D. in Architecture, 2007

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Cyprus Scientific & Technical Chamber, Cyprus • Cyprus Architects Association, Cyprus • Do.co.mo.mo, Cyprus & International • European Network for Housing Research (ENHR), The Netherlands • A.E.S.O.P (Association of European Schools of Planning), Poland • European Association of Architectural Education (EAAE) – Research Committee, Belgium

RESEARCH INTERESTS
Urban Segregation – Urban Conflicts; Space, Ethnicity and Culture (dwellings, settlements, urban space); Domestic Space Organization; Research by Design and Architectural Education

EDITORIAL BOARDS

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Historical evolution of urban segregation: mechanisms of differentiation through space and time

EXTERNAL RESEARCH PROGRAMMES
OIKONET A global multidisciplinary network on housing research and learning
Cooperating Organizations: FUNITEC, Fundación Privada Universitat i Tecnologia, Spain
Funding: Erasmus LLP
Accessibility Instruments for Planning Practice in Europe
Cooperating Organizations: Oporto University, Portugal
Funding: COST
The Housing Markets of Southern Europe in face of the crisis
Cooperating Organizations: The TRAWOS Institute of University of Applied Sciences Zittau / Görlitz, Germany
Funding: WBG Wohnungsbau-Gesellschaft Görlitz mbH

PUBLICATIONS

CHAPTERS IN BOOKS

SELECTED JOURNAL PUBLICATIONS
SELECTED CONFERENCE PROCEEDINGS


CHRISTOS A. HADJICHRISTOS  ASSOCIATE PROFESSOR

TEL.: 22892964, FAX: 22895056, E-mail: hadjichristos@ucy.ac.cy

STUDIES

University of Texas at Austin, U.S.A., B.Sc. in Architectural Engineering, 1986
University of Texas at Austin, U.S.A., Master of Architecture, 1991
Bartlett School of Graduate Studies, University College London, U.K., Ph.D. in Architecture, 2002

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

Scientific and Technical Chamber of Cyprus (ETEK), Cyprus • Association of Architects Cyprus (SAK), Cyprus • Space Syntax, International • IASTE (International Association for the study of Traditional Environments), International • IAPL (International Association for Philosophy and Literature), International

RESEARCH INTERESTS

Layering in perception, representation, design and theory; Syntactical Analysis of Space; Architectural education; The packaging of space and virtualization; The exploded layered boundary

EDITORIAL BOARDS

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


DISTINGUISHED PUBLICATIONS


ODYSSEAS KONTOVOURKIS ASSISTANT PROFESSOR

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STUDIES

National Technical University of Athens, Greece, Diploma in Architecture Engineering, 1999
Osaka University, Japan, Research Student, 2002
University of Bath, U.K., Ph.D., 2009

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

eCAADe: Education and Research in Computer Aided Member Architectural Design in Europe, Europe • Scientific Technical Chamber of Cyprus (ETEK), Architecture Division, Cyprus • Cyprus Civil Engineers and Architects Association (CCEAA), Cyprus • Cyprus Architects Association (CAA), Cyprus
RESEARCH INTERESTS
Pedestrian movement behavior modelling and circulation design; Computer-aided design/Computer-aided manufacturing (CAD/CAM); Parametric-associative design logic and physics-based computer modelling; Physical computing and robotics in architecture; Digital construction mechanisms and physical prototyping

EDITORIAL BOARDS
*Journal of Architecture, J.UCY03*, (Chief Editor), Cyprus, Department of Architecture, University of Cyprus.

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Development of a flexible and adaptable spatial structural system

EXTERNAL RESEARCH PROGRAMMES
Semantic enrichment of 3D city models for sustainable urban development, COST Action TU0801
Cooperating Organizations: Partners from 23 European Countries
Funding: COST: European Cooperation in the field of Scientific and Technical Research, European Commission

PUBLICATIONS

CHAPTERS IN BOOKS
Leduc, T., & Kontovourkis, O. (2012). Towards a mixed approach combining visibility and mobility studies to analyze the Eleftheria Square, Nicosia (CY). In Billen, R., Caglioni, M., Marina, O., Rabino, G., & San Jose, R. (Eds.), *3D Issues in Urban and Environmental Systems* (pp. 67-77). Bologna: Societa Editrice Esculapio.

SELECTED JOURNAL PUBLICATIONS

SELECTED CONFERENCE PROCEEDINGS


DISTINGUISHED PUBLICATIONS

AIMILIOS G. MICHAEL  LECTURER

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STUDIES
National Technical University of Athens, Greece, Dipl. Arch. Eng., (M.Sc.), 2004
National Technical University of Athens, Greece, M.Sc., 2006
National Technical University of Athens, Greece, Ph.D. in Arch. Technology, 2011

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Cyprus Architects Association, CAA, Cyprus (Vice‐President of the CAA Administrative Council) • Scientific Technical Chamber of Cyprus, ETEK‐CSTC, Cyprus • Cyprus Civil Engineers and Architects Association, ΣΠΜΑΚ- CCEAA, Cyprus • Greek Architects Association, SADAS‐PEA, Greece • Pancyprian Organization of Architectural Heritage, ΠΟΑΚ‐POAK, Cyprus • Union Internationale des Architectes, UIA, France (CAA representative) • International Solar Energy Society, ISES, Germany • Institute of Solar Technology, IHT‐IST, Greece • International Working Party for the Documentation and Conservation of Buildings, Sites and Neighborhoods of the Modern Movement, DO_CO.MO.MO, Spain

RESEARCH INTERESTS

EDITORIAL BOARDS

Journal of Architecture ‘Archive’, (Member of the Editorial Board), Cyprus, Cyprus Architects Association • JUCY Journal of Architecture (Member of the Editorial Board), Cyprus, Department of Architecture, University of Cyprus

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Implementation of Sustainable Design Elements of Vernacular Architecture in the Rehabilitation of Traditional Buildings and in the Design of New Structures

EXTERNAL RESEARCH PROGRAMMES
ARCHI.MEDES: Shaping the Architect’s Profile(s) for the Mediterranean and European South, Erasmus+ Strategic Partnerships Action KA2
Cooperating Organizations: Aristotle University of Thessaloniki
Funding: European Commission, Culture: Directorate General for Education and Culture
Energy Efficiency Knowledge Transfer Framework for Building Retrofitting in the Mediterranean Area, 314347 ee-WISE CSA-SA
Cooperating Organizations: INTROMAC - Consorcio para la Gestión del Instituto Tecnológico de Rocosas Ornamentales y Materiales de Construcción, Spain; Eolas S.L., Spain; Projects in Motion Limited, Malta; Bulgarian Construction Chamber, Bulgaria; AIDICO Tecnological Instituto of Construction, Spain; Eneryc S.C., Spain; Organismos Limenos Raphinas AE, Greece; Positive Energy, Greece; Ege Universitesi, Turkey; Ierides & Michael Architects General Partnership, Cyprus; X-Panel Ltd, Cyprus; Istituto Sperimentale per l'Edilizia SPA, Italy, Avaca Technologies Consulting, Greece, Informatics AE, Greece.
Funding: 7th Framework Programme for Research and Technological Development (FP7), European Commission, Directorate General for Research & Innovation, FP7-2012-NMP-ENV-ENERGY-ICT-EeB

PUBLICATIONS

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SELECTED JOURNAL PUBLICATIONS


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DISTINGUISHED PUBLICATIONS


MARIA PHILOKYPROU ASSISTANT PROFESSOR

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STUDIES

National Metsovion Technical University, Athens, Greece, Diploma in Architecture, 1990
University of Heriot-Watt, Edinburgh, U.K., M.Sc. in Architectural Conservation, 1993
University of Cyprus, Ph.D. in History of Architecture, 2000

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

Cyprus Scientific & Technical Chamber (ETEK), Cyprus • Pancyprian Association of Architectural Heritage (ΠΟΑΚ), Cyprus • International Council on Monuments and Sites Cyprus (ICOMOS), International • Cyprus Association of Architects (ΣΑΚ), Cyprus • Docomomo, International

RESEARCH INTERESTS

Architectural conservation, preservation and promotion of the built environment; Vernacular architecture; Environmental features of vernacular architecture; Traditional architectural technology; Analysis of traditional building materials and methods of construction

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)

Implementation of Sustainable Design Elements of Vernacular Architecture in the Rehabilitation of Traditional Buildings and in the Design of New Structures

EXTERNAL RESEARCH PROGRAMMES

Innovative Methods of Conservation and Restoration of Bioclimatic Elements of Traditional Buildings of the Historic Centre of Nicosia
Cooperating Organization: Nicosia Municipality, Cyprus; ICOMOS, Cyprus; Frederick Research Centre, Cyprus
Funding: RPF, Cyprus
Hydraulic Lime Mortar Mix Design Based on the Traditional Production of Ancient Mortars (code: AKIPE/0204/01)
Cooperating Organizations: University of Cyprus, Cyprus; Department of Town Planning and Housing, Cyprus; ANADOMI Co. Ltd, Cyprus; PELETICO Co. Ltd, Cyprus, Democritos Research Centre Athens, Greece
Funding: RPF, Cyprus
Establishment of research infrastructure for the characterization and study of building materials of monuments in Cyprus
Cooperating Organizations: University of Cyprus, Cyprus; Department of Antiquities, Department of Town Planning and Housing; ANADOMI Co. Ltd, Cyprus; POAK, Cyprus
Funding: RPF, Cyprus
Development and promotion of improved mudbricks of Cyprus as a new sustainable building material
Cooperating Organizations: University of Cyprus, Cyprus; Pigmalion Ltd, Cyprus; CNE TECHNOLOGY LTD, Cyprus; ETEK, Cyprus
Funding: RPF, Cyprus

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MARIOS C. PHOCAS  ASSOCIATE PROFESSOR
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STUDIES
University of Stuttgart, F.R. Germany, Vordiplom, 1991
University of Stuttgart, F.R. Germany, Dipl.-Ing., 1995
University of Stuttgart, F.R. Germany, Dr.-Ing., 1999

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Council on Tall Buildings and Urban Habitat (CTBUH), U.S.A. • Earthquake Engineering Research Institute (EERI), U.S.A. • Anti-Seismic Systems International Society (ASSISi), Italy • German Society of Earthquake Engineering and Structural Dynamics (DGEb), F.R. Germany • Association of German Engineers (VDI), Building Engineering Division, F.R. Germany • Scientific Technical Chamber of Cyprus (ETEK), Architecture Division, Cyprus • Cyprus Civil Engineers and Architects Association, Cyprus • Architects Association (CCEAA-CAA), Cyprus

RESEARCH INTERESTS
Integrated Architectural Design; Kinetic Structures; Earthquake Resistant Structural Building Design; Structural Control; Earthquake Isolation

EDITORIAL BOARDS
ArchiDoct, International journal (Member of the Editorial Board, Scientific Committee and Reviewer), Belgium, ENHSA Network • Architectural Engineering Technology (Executive Editor), U.S.A., OMICS • Journal of Architecture, J. UCY (Member of the Editorial Board), Cyprus, Department of Architecture, University of Cyprus • Pergamini (Member of the Editorial Board), Cyprus, University of Cyprus • Doctoral Education in Schools of Architecture across Europe, Refereed Book Volume (Member of the Scientific Committee and Reviewer), Greece, ENHSA Network • Semiotics and Visual Communication. Concepts and Practices, Refereed Book Volume (Member of the Scientific Committee and Reviewer), U.K., Cambridge Scholars.

EXTERNAL RESEARCH PROGRAMMES
Shaping the Architect’s Profile(s) for the Mediterranean and European South, ARCHI.MEDES. Cooperating Organizations: Project Coordinator: Aristotle University of Thessaloniki, Thessaloniki, Greece; Department of Architecture, Faculty of Engineering, University of Cyprus, Cyprus Funding: E.U.
Tuning Middle East and North Africa, T-MEDA Cooperating Organizations: Project Coordinator: University of Duesto, Bilbao, Spain; Department of Architecture - Faculty of Engineering - University of Cyprus, Cyprus Funding: E.U.
European Network of Heads of Schools of Architecture: Inhabiting the European Higher Architectural Education Area  
Cooperating Organizations: Department of Architecture - Faculty of Engineering - University of Cyprus, Cyprus  
Funding: E.U., Lifelong Learning Programme Centralized  
A Multi-disciplinary Center for Energy Efficiency in Sustainable Built Environments.  
Cooperating Organizations: Department of Civil and Environmental Engineering - Faculty of Engineering (Project Coordinator) - University of Cyprus; Department of Architecture - Faculty of Engineering - University of Cyprus, Cyprus  
Funding: RPF, Cyprus, E.U.

PUBLICATIONS

CHAPTERS IN BOOKS


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PANAYIOTA PYLA  ASSOCIATE PROFESSOR

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STUDIES

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

EAHN - European Architectural History Network, E.U. (Member of the Network, and Member of the Editorial Board executive committee) • SAH – Society of Architectural Historians, International (Member) • WSE—World Society for Ekistics, Member.

RESEARCH INTERESTS

History-theory of modern architecture and urbanism; Social dimensions of urban development in 20th Century; History-theory and politics of environmentalism and sustainability in architecture; Cultural heritage, memory and conflict in postcolonial Cyprus and the Eastern Mediterranean.

EDITORIAL BOARDS

Histories of Architecture: Journal of the European Architectural History Network (Editorial Board founding member), U.K., Ubiquity Press • Design and Culture (Guest Editor for special issue), U.K., Berg Publishers • Journal of Planning History (Editorial Board Member), U.S.A., Sage • Journal of Architecture, U.K., Taylor and Francis • J.UCY: Journal of the Department of Architecture at UCY, Cyprus, University of Cyprus • ENDEIKTIS, Cyprus, University of Cyprus

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)


EXTERNAL RESEARCH PROGRAMMES

Gendered Innovations
Cooperating Organizations: European Academic Institutions
Funding: COST Action TU1201
Reconfiguring Values and Knowledge for Sustainable Communities
Cooperating Organizations: University of Cyprus, Cyprus; Mykolas Romeris University, Lithuania; Queen’s University of Belfast, U.K.
Funding: Erasmus IP

PUBLICATIONS

BOOKS

CHAPITERS IN BOOKS


SELECTED JOURNAL PUBLICATIONS


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DISTINGUISHED PUBLICATIONS

ANDREAS SAVVIDES  ASSISTANT PROFESSOR
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STUDIES

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
U.S. Green Building Council

RESEARCH INTERESTS
Environmental, cultural and socioeconomic factors pertaining to sustainable urban design and development; Social equity in considerations of urban mobility: the housing-transit connection; Strategies pertaining to smart growth, compact city and transit oriented design and development; Strategies pertaining to the regeneration of underperforming and underutilized urban cores; Factors pertaining to the occupation and appropriation of public space

EDITORIAL BOARDS
Journal of Transport and Land Use (Editor), U.S.A., University of Minnesota Press • Design Principles and Practices (Editor), Australia, Common Ground Publishers.

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
TUD COST Action 1205 spinoff on the investigation of Building Integrated Solar Thermal Systems (BISTS) in single and double shell facades in the new construction and / or substantial renovation of buildings
Implementation of sustainable design elements of vernacular architecture in the rehabilitation of traditional buildings and in the design of new structures – acronym “BIOCULTURAL”

PUBLICATIONS
SELECTED JOURNAL PUBLICATIONS
SELECTED CONFERENCE PROCEEDINGS


SOCRATES STRATIS ASSOCIATE PROFESSOR

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STUDIES

Cornell University, U.S.A., Bachelor in Architecture, 1989
Cornell University, U.S.A., Master in Architecture, 1990
University of Paris XII, France, DEA in Urbanism, 1998
University of Paris 8 (St Denis), France, Doctorate Degree in Urban Studies-Planification-Planning (option architecture)

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

U.S. Green Building Council, U.S.A.

RESEARCH INTERESTS

The public role of architecture in uncertain, plus contested contemporary urban environments; Urban Design; Social Practices of Architecture (Spatial Agency); The political dimension of space and design
EDITORIAL BOARDS

*J.U.CY Journal of Architecture* (Editor in chief and Board Member), Cyprus, University of Cyprus.

EXTERNAL RESEARCH PROGRAMMES

The “Hands-On” Famagusta Project  
Cooperating Organizations: Imaginary Famagusta Group, Cyprus and AA&U For Architecture, Art and Urbanism, Cyprus  
Funding: USAID, UNDP, University of Cyprus  
The “Urban-A-Where?” Project  
Funding: Cypriot European Presidency and the University of Cyprus

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Faculty of Engineering
Department of Civil and Environmental Engineering
### ACADEMIC STAFF

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Dimos Charmpis</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Symeon Christodoulou</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Ioannis Ioannou</td>
<td>Associate Professor</td>
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<tr>
<td>Despo Fatta-Kassinos</td>
<td>Associate Professor</td>
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<td>Petros I. Komodromos</td>
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<tr>
<td>Konstantinos Kostarellos*</td>
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<td>Dimitrios Loukidis</td>
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<td>Marina Neophytou</td>
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<td>Professor</td>
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<tr>
<td>Michalis Petrou</td>
<td>Professor</td>
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<tr>
<td>Panayiotis Roussis</td>
<td>Assistant Professor</td>
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<tr>
<td>Pantazopoulou Stavroula</td>
<td>Professor</td>
</tr>
</tbody>
</table>

*no longer a member of the UCY academic staff*
The Department of Civil and Environmental Engineering (CEE) was established in 2002. In fact, it is one of the three founding departments of the School of Engineering at the University of Cyprus. Since its establishment, the CEE Department has expanded rapidly and it is now highly rated both academically and research wise. It provides quality degree programmes, at both the undergraduate and postgraduate levels, and it functions as a centre of scientific research and academic excellence in several areas of civil and environmental engineering.

Our objective is to continue striving for academic and research excellence, enhancing the Department’s visibility and fostering fruitful collaboration with the public and private sector and in particular with the industry, both locally and internationally. To this end, we have created the necessary laboratory and information technology infrastructure to support our mission of providing high quality educational and research programs to students.

The CEE Department faculty covers all traditional areas of Civil Engineering, such as structures, building materials, earthquake engineering, construction management, geotechnical engineering, transportation and hydraulics. At the same time, we are active in areas concerned with the environment, such as solid and liquid waste management, protection of water resources, and air pollution. Furthermore, we strive to integrate aspects of the sustainable building environment, as well as issues on environmental health, into our academic programs and research activities. All these areas have a direct impact on health and safety, tourism, construction industry and the local economy of Cyprus in general.

Research has been among the top priorities of the CEE Department ever since its establishment. Even though the Department is still developing its faculty and infrastructure, we have made notable achievements in research, managing to produce numerous scientific publications in high impact factor peer-reviewed journals and prestigious conference proceedings. We have also attracted significant external research funding exceeding 10 million euro. This funding came from various sources, including the Cyprus Research Promotion Foundation, UNESCO and the European Union. A small number of research projects were also funded by the University of Cyprus, following competitive peer-reviews of proposals.

The success and increased visibility of the CEE Department is manifested in the numerous awards its faculty members have received over the recent years, the international recognition and prestigious positions they hold. Faculty members are currently editors or co-editors of several scientific journals, while they also serve as
members of the organizing and scientific committees for international conferences, proposal evaluators for the European Science Foundation and the Cyprus Research Promotion Foundation, and national representatives in EU’s COST Domain Committees.

The enormous impact of the CEE Department on our society has never been clearer. We trust that in the short period since its establishment, the CEE Department has made inroads to academic and research excellence and, notwithstanding the challenges ahead, we will continue on our path to scholarly excellence, fostering scientific knowledge and preparing young engineers/researchers and future leaders who can creatively apply their knowledge to solve problems in a rapidly-changing environment.

Ioannis Ioannou
Chairperson
DIMOS CHARMPIS   ASSOCIATE PROFESSOR
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STUDIES
National Technical University of Athens, Greece, Diploma in Civil Engineering, 1994
National Technical University of Athens and Athens University of Economics and Business, Greece, Master of Business Administration (MBA), 1999
National Technical University of Athens, Greece, PhD in Civil Engineering (Structural Mechanics), 2003

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Technical Chamber of Greece, Greece • Economic Chamber of Greece, Greece • Greek Association for Computational Mechanics (GRACM), Greece • Cyprus Scientific and Technical Chamber, Cyprus

RESEARCH INTERESTS
Finite element analysis; Structural design optimization; Probabilistic/stochastic structural analysis; Assessment and control of structural damage tolerance; Analysis, assessment and retrofit of masonry structures

EXTERNAL RESEARCH PROGRAMMES
Robustness of structures
Cooperating Organizations: Several members/investigators from 22 European countries
Funding: COST Action TU0601, European Commission

Analysis and Design of Earthquake Resistant Structures (ADERS)
Cooperating Organizations: Marie Curie International Research Staff Exchange Scheme (IRSES), International; National Technical University of Athens, Greece; University of Santa Maria, Chile; Indian Institute of Technology Kanpur, India; Universidad Autónoma Metropolitana, Mexico
Funding: Marie Curie / FP7, European Commission

Establishment of research infrastructure for the characterization and study of the decay and protection of building materials of monuments in Cyprus
Cooperating Organizations: Departments of Antiquities and Town Planning & Housing, Cyprus; ANADOMI Co. Ltd, Greece; Cyprus Architectural Heritage Organization, Cyprus
Funding: RPF, Cyprus

Three-dimensional numerical investigation of earthquake-induced pounding of buildings
Funding: RPF, Cyprus
PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


SYMEON E. CHRISTODOULOU ASSOCIATE PROFESSOR

TEL.: 22892270, FAX: 22895317, E-MAIL: schristo@ucy.ac.cy

STUDIES

Columbia University, U.S.A., B.Sc., 1991 in Mechanical Engineering
Columbia University, U.S.A., M.Phil., 1996 in Mechanical Engineering
Columbia University, U.S.A., Ph.D., 1998 in Mechanical Engineering

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

American Society of Civil Engineers, U.S.A. (Associate Member) • European Water Resources Association, Europe • International Water Association, U.K. • ETEK, Cyprus • Construction Research Council, U.S.A. • EG-ICE, Germany

RESEARCH INTERESTS

Construction engineering and management; Computer-aided engineering; Building Information Models (BIM) and integrated information management systems; Urban water distribution networks and water loss management; Transportation Management Systems
EDITORIAL BOARDS


EXTERNAL RESEARCH PROGRAMMES

Intelligent Services for Energy-Efficient Design and Life Cycle Simulation (“ISES”) Cooperating Organizations: Technische Universität Dresden, Germany; Granlund Oy Helsinki, Finland; University of Ljubljana, Slovenia; SOFiSTIK Hellas S.A., Greece; Nyskopunarmidstod Islands, Iceland; National Observatory of Athens, Greece; Leonhardt, Andrändrrarrd, An, Germany; Trimo d.d., Slovenia; Russian Academy of Sciences, Russia Funding: FP7, European Commission

Integrated Platform for Security, Information and Accessibility in Intelligent Marine Transport (PRODROMOS) Cooperating Organizations: Ministry of Transport, Communications and Works, Department of Public Works, Cyprus; Cyprus Ports Authority, Cyprus; Ministry of Infrastructure, Transport and Networks, Greece; Heraklion Port Authority, S.A., Crete, Greece; Foundation for Research and Technology - Hellas, Crete, Greece Funding: Programme of Translational Cooperation Hellas- Cyprus (INTERREG)
Automatic Generation of Building Information Models (BIMAutoGen)
Cooperating organizations: University of Cambridge, U.K.; Technion University of Technology, Israel; Foundation for Research and Technology - Hellas, Crete, Greece; Georgia Institute of Technology, University of Michigan, U.S.A.
Funding: Marie Curie IRSES Programme, European Commission

Nireas International Water Research Center (Nireas-IWRC)
Cooperating Organizations: University of Cincinatti, U.S.A.
Funding: RPF, Cyprus

Ad-Hoc Wireless Sensor Networks for Automatic Meter Reading and Vulnerability Assessment of Water Distribution Networks (UCyAMR)
Cooperating Organizations: SignalGenerix Inc., Greece, Fontinalia Water Solutions Inc., Cyprus
Funding: RPF, Cyprus

PUBLICATIONS

CHAPTERS IN BOOKS


SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


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**IOANNIS IOANNOU** ASSOCIATE PROFESSOR

TEL.: 22892257, FAX: 22895318, E-mail: ioannis@ucy.ac.cy

**STUDIES**

University of Manchester Institute of Science and Technology (UMIST), U.K., B.Sc. (Hons) Construction Management, 1999

University of Manchester Institute of Science and Technology (UMIST), U.K., Ph.D. Building Engineering, 2002

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**

Cyprus Scientific and Technical Chamber (ETEK), Cyprus • International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM), France (Senior Member) • European Geosciences Union (EGU), Europe

**RESEARCH INTERESTS**

Characterization of construction materials; Capillary liquid transport phenomena in porous media; Construction materials decay mechanisms – Salt crystallization; Weathering and protection of ancient monuments and historic buildings; Environmentally-friendly building materials
EDITORIAL BOARDS


INTERNAL RESEARCH PROGRAMMES (University of Cyprus)

Experimental and computational investigation of the structural response of adobe buildings (Co-Principal Investigator)

EXTERNAL RESEARCH PROGRAMMES

PCM-enhanced plaster for upgrading the energy efficiency of contemporary and historic buildings
Cooperating Organizations: Frederick Research Center, Cyprus; Termokir Ltd, Israel
Funding: European Commission (M-era.NET Network)

Characterization of building and decorative stones used in Cyprus
Cooperating Organizations: Mosaic and Marble Manufacturers Association, Cyprus; Geological Survey Department, Cyprus; Institute of Geology and Mineral Exploration (Lithos Laboratory), Greece
Funding: RPF, Cyprus

Establishment of research infrastructure for the characterization of monumental building materials
Cooperating Organizations: Department of Antiquities, Cyprus; Department of Town Planning & Housing, Cyprus; ANADOMI Co. Ltd, Cyprus; Cyprus Architectural Heritage Organisation, Cyprus
Funding: RPF, Cyprus

Multidisciplinary centre for energy efficiency in a sustainable built environment
Cooperating Organizations: University of Cambridge, UK; M.I.T., U.S.A; Cyprus Scientific & Technical Chamber, Cyprus; Ministry of Commerce, Industry & Tourism – Energy Service, Cyprus
Funding: RPF, Cyprus

Mix design, production and adoption of optimized adobes as alternative, environmentally-friendly, building materials for contemporary and vernacular architecture
Cooperating Organizations: Pygmalion Techniki Ltd, Cyprus; CNE Technology Ltd, Cyprus; Cyprus Scientific & Technical Chamber, Cyprus
Funding: RPF, Cyprus

Design and development of a permeability measurement system for low porosity building materials
Cooperating Organizations: CNE Technology Ltd, Cyprus; Frederick Research Center, Cyprus
Funding: RPF, Cyprus
Fine aggregate properties and their effect on cementitious composite materials
Cooperating Organizations: Public Works Department – Central Laboratory, Cyprus;
Geological Survey Department, Cyprus
Funding: Ministry of Interior, Cyprus

PUBLICATIONS

BOOKS

CHAPTERS IN BOOKS


SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


DISTINGUISHED PUBLICATIONS


DESPOTA-KASSINOS ASSOCIATE PROFESSOR

TEL.: 22893515/22892275, FAX: 22895080, 22895365, E-mail: dfatta@ucy.ac.cy

STUDIES

National Technical University of Athens, Greece, Diploma in Chemical Engineering, 1993
National and Kapodistrian University of Athens (Greece) and Joint Research Center/Ispra (Italy), M.Sc. in Environmental Engineering and Education, 1995
National Technical University of Athens, Greece, Ph.D. in Chemical Engineering, 1999

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

Water Environmental Federation, U.S.A. • American Chemical Society, U.S.A. • SETAC, Society of Environmental Toxicology and Chemistry, Belgium • International Water Association, U.K. • Scientific and Technical Chamber, Cyprus
RESEARCH INTERESTS
Water and wastewater treatment and reuse; contaminants of emerging concern in aqueous matrices; advanced oxidation processes; advanced biological treatment; (eco) toxicity bioassays

EDITORIAL BOARDS

EXTERNAL RESEARCH PROGRAMMES
New and emerging challenges and opportunities in wastewater reuse (NEREUS), COST Action ES1403
Cooperating Organizations: Institutes from Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Israel, Italy, Lithuania, Luxembourg, Malta, The Netherlands, Norway, Poland, Portugal, Serbia, Slovakia, Spain, Sweden, Switzerland, United Kingdom, Montenegro.
Funding: European Commission

NORMAN Association Working Group 5: Wastewater Reuse and Contaminants of Emerging Concern
Cooperating Organizations: Catalan Institute for Water Research-ICRA, Spain; CNRS-ENSIC, France; IDAEA-CSIC, Spain; Instituto Superior Tecnico, Portugal; Karlsruhe Institute of Technology, Germany; Middlesex University, United Kingdom; Namik Kemal University, Turkey; Technical University of Dresden, Germany; Universidad de Almeria, Spain; Universidade Católica Portuguesa, Portugal; Université de Lorraine, France; University of Salerno, Italy; Vienna University of Technology, Austria; Volcani Agriculture Research Center, Israel.
Funding: Norman Association

Integrating water cycle management: building capacity, capacity and impact in education and business (I-WEB)
Cooperating Organizations: Middlesex University, U.K.; Shokan Ulukhanov Kokshetau State University, Russia; Al-Farabi Kazakh National University, Almaty; Polytechnic University of Valencia, Valencia; Leipzig University, Germany
Funding: Tempus IV, European Commission
Antibiotic resistance removal and disinfection potential of urban wastewater by solar-Fenton at a pilot plant scale (SOLAR2D)
Cooperating Organization: Plataforma Solar de Almeria, Spain
Funding: Plataforma Solar de Almeria under SFERA Project ‘G. Agreement no: 228296 FP7-INFRASTRUCTURES-2008-1, European Commission

Mediterranean cooperation in the treatment and valorization of olive mill wastewater, (MEDOLICO), I-B/2.1/090
Cooperating Organizations: Matimop, Israel Industry Center for R&D, Israel; Liguria Chamber of Commerce, Liguria, Italy; National Laboratory Energy and Geology, Bio-energy unit, Portugal; Jordan University of Science and Technology, Irbid, Jordan; Ben Gurion University of the Negev, Israel; University of Genova, Liguria, Italy
Funding: ENPI CBCMED, European Commission

Treatment of Two Antibiotics at Pilot Plant Scale Project (SOL-TROF)
Cooperating Organizations: Plataforma Solar de Almeria, Spain
Funding: Plataforma Solar de Almeria under SFERA Project ‘G. Agreement no: 228296 FP7-INFRASTRUCTURES-2008-1, European Commission

Detecting evolutionary hot spots of antibiotic resistances in Europe (DARE), COST Action TD0803
Cooperating Organizations: Institutes from Denmark, United Kingdom, Cyprus, Spain, Switzerland, Portugal, Norway, Italy, Israel, France, Czech Republic, Belgium, Slovak Republic, Portugal, Belgium, Luxembourg, Finland, Estonia, Poland, Austria, Germany, France, Spain, Turkey, Sweden, Slovak Republic, Serbia, Norway, Lithuania, Estonia.
Funding: European Commission

Advanced Systems for the enhancement of the environmental performance of wineries in Cyprus (WINEC)
Cooperating Organizations: Ministry of Agriculture, Natural Resources and Environment, Cyprus; TALOS Ltd, Cyprus; SKE Euromarket Ltd, Cyprus; Technical University of Crete, Greece; TSIAKKAS Winery Ltd, Cyprus
Funding: LIFE + Environment, European Commission

Recycling environmental policy tool, Environmental policy support tool for recycling in islands (REPT)
Cooperating Organizations: Ministry of Interior (coordinator), Cyprus; GreenDot, Cyprus; Nicolaides and Associates, Cyprus; Green Pak, Malta; HERRCO, Greece; Ecoempallages, France
Funding: LIFE + Environment, European Commission

Nitrogen in Europe, Assessment of current problems and future solutions (NinE), ESFCA/0603
Cooperating Organizations: ECN, Energy Research Centre of the Netherlands, The Netherlands; CEH, Centre for Ecology & Hydrology, United Kingdom; IIASA, International Institute for Applied Systems Analysis, Austria; CNRS, Pierre & Marie Curie University, France; IVL, Swedish Environmental Research Institute, Sweden; University of Tartu, Estonia; CIEMAT, Spain; University of Ghent, Belgium; EAWAG Limnological Research Centre, Switzerland; Baltic Sea Research Institute, Germany.
Funding: European Science Foundation
Sustainable wastewater reuse in irrigation: Innovative tools and technologies to reduce the risks associated with microcontaminants (INNOVAT) KY-IΣΡ/0114/08
Cooperating Organizations: T. C. Geomatic Ltd, Cyprus; Atlantium Technologies Ltd, Israel; Atlantium Tecnologies Ltd, Israel; The Hebrew University of Jerusalem, Israel; Volcani-Agricultural Research Organization, Israel
Funding: RPF, Cyprus

Stopping Antibiotic Resistance Evolution (StARE) KOINA/ΠΚΠ/0113/15
Cooperating Organizations: University of Helsinki, Finland; Catalan Institute for Water Research (ICRA), Spain; Karlsruhe Institute of Technology (KIT), Germany; Agencia Estalat Consejo Superior de Investigaciones Cientificas, Spain; Norwegian School of Veterinary Science, Norway; Technische Universität Dresden (TUD), Germany; University of Aveiro, Portugal; NUI Maynooth, Ireland; Aquantec GmbH, Germany
Funding: RPF, Cyprus

Closing Gaps of knowledge with respect to advanced chemical oxidation processes for the removal of contaminants of emerging concern (GAPS) KOULTOURA/VENS/0412/24
Funding: RPF, Cyprus

Photocatalytic removal of organic micro-pollutants from the aqueous phase using TiO2 coupled with graphene as a photocatalyst (PhotoGraph) AEIFORIA/FISI/0311/(BIE)/33
Cooperating Organizations: Technical University of Crete, Greece; S.K. Euromarket Ltd, Cyprus
Funding: RPF, Cyprus

Nireas- International Water Research NEA YPODOMH/STRATH/0308/09
Cooperating Organizations: University of Cincinnati, OH, U.S.A.
Funding: RPF, Cyprus

Sustainable management of agro-industrial wastes: Valorization and solar-Fenton post-treatment of olive effluents (SOLIVAL) AEIFORIA/FISI/0609(BE)/12
Cooperating Organizations: Technical University of Crete, Greece
Funding: RPF, Cyprus

Development of novel methods for the toxicity assessment of multi-component chemical mixtures to humans and the ecosystem (TOMIXX) PENEK/0609/24
Cooperating Organizations: University of Heidelberg, Germany; University of Nicosia, Cyprus
Funding: RPF, Cyprus

Fate, effect and removal potential of xenobiotics present in aqueous matrices (IX-AQUA) UPGRADE/DURABLE/0308/07
Cooperating Organization: Institute of Environmental Assessment and Water Research of the Spanish Council of Scientific Research, Spain
Funding: RPF, Cyprus
PUBLICATIONS

CHAPTERS IN BOOKS


SELECTED JOURNAL PUBLICATIONS


PETROS I. KOMODROMOS  ASSOCIATE PROFESSOR

TEL.: 22892276, FAX: 22895320, E-mail: komodromos@ucy.ac.cy

STUDIES
University of Patras, Greece, Diploma in Civil Engineering, 1992
Massachusetts Institute of Technology (MIT), U.S.A., M.Sc. in Civil and Environmental Engineering, 1995
Massachusetts Institute of Technology (MIT), U.S.A., Ph.D. in Information Technology, 2001

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
American Society of Civil Engineers (ASCE), U.S.A. • Earthquake Engineering Research Institute (EERI), International • Anti-Seismic Systems International Society (ASSISi), Global • Sigma Xi, The Scientific Research Society, U.S.A. • Scientific and Technical Chamber of Cyprus (ETEK), Cyprus • Cyprus Association of Civil Engineers, Cyprus • Cyprus Computer Society, Cyprus

RESEARCH INTERESTS
Simulation of Seismically Induced Structural Pounding; Simulation of the Seismic Response of Multidrum Columns & Colonnades; Simulation of Seismically Isolated Buildings; Utilization of Object-Oriented Programming in Structural Analysis

PUBLICATIONS
SELECTED JOURNAL PUBLICATIONS


**DISTINGUISHED PUBLICATIONS**


**KONSTANTINOS KOSTARELOS** ASSISTANT PROFESSOR

TEL.: 22892214, FAX: 22892295, E-mail: dino@ucy.ac.cy

**STUDIES**

Stevens Institute of Technology, U.S.A., Bachelor of Engineering in Civil Engineering, 1987

Stevens Institute of Technology, U.S.A., Master of Engineering in Environmental Engineering, 1993

The University of Texas at Austin, U.S.A., Ph.D. in Civil Engineering, 1998

**PROFESSIONAL SOCIETIES / INTERNATIONAL ORGANIZATIONS**


**RESEARCH INTERESTS**

Remediation of Contaminated Soil and Groundwater; NAPL Flow within Fractured Media; Sensors for In-Situ Site Monitoring; Toxicological Effects of Heavy Metals; Fluid Flow in Porous Media
EXTERNAL RESEARCH PROGRAMMES

REPT - Recycling environmental policy tool, Environmental policy support tool for recycling in islands (Participant)
Cooperating Organizations: Nicolaides and Assoc., Cyprus; Green Dot Cyprus, Cyprus; Hellenic Recovery and Recycl. Corp., Cyprus; Green Dot Malta, Malta
Funding: LIFE (EU) and RPF, Cyprus

WINEC-Advanced systems for the enhancement of the environmental performance of wineries in Cyprus (Participant)
Cooperating Organizations: Crete Technical University, Crete; S.K. Euromarket Ltd, Cyprus; Dept. of Environment-Cyprus, RTD Talos Ltd, Cyprus; Tsiakkas Winery, Cyprus
Funding: LIFE (EU) and RPF, Cyprus

Establishing an International Water Institute (IWI)
Cooperating Organization: U of Cincinnati, U.S.A.
Funding: LIFE (EU) and RPF, Cyprus

Functional Optical Probes for In-situ Monitoring for Geo-Environmental
Cooperating Organizations: Polytechnic University, U.S.A.
Funding: National Science Foundation, U.S.A.

SEAR Feasibility for Fuel Contaminated Soils
Cooperating Organizations: Polytechnic University, U.S.A.
Funding: Ssang Hwi Oil Co - Korea

SEAR Feasibility for Diesel and Gasoline Contaminated Soil
Cooperating Organizations: Polytechnic University, U.S.A.
Funding: S-Oil Co - Korea

DIMITRIOS LOUKIDIS ASSISTANT PROFESSOR

TEL.: 22892192, FAX: 22895080, E-mail: loukidis@ucy.ac.cy

STUDIES
National Technical University of Athens, Greece, Diploma in Civil Engineering, 1999
Purdue University, U.S.A., M.Sc. in Civil Engineering, 2000
Purdue University, U.S.A., Ph.D. in Civil Engineering, 2006

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Technical Chamber of Greece, Greece

RESEARCH INTERESTS
Foundation engineering; computational geomechanics; constitutive modeling; geotechnical earthquake engineering; engineering geology
INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Large deformation finite element analysis of limit resistance of slope stabilizing piles (SLOSTAPILES)

EXTERNAL RESEARCH PROGRAMMES
THALES project: Innovative design of bridge piers on liquefiable soils with the use of “natural” seismic isolation
Cooperating Organizations: National Technical University of Athens, Greece; Aristotle University of Thessaloniki, Greece; University of Thessaly, Greece; University of Bristol, U.K.
Funding: National Strategic Reference Framework (NSRF) 2007-2013 (Greece & EU)
SERIES Transnational Access (TA) project: Experimental Verification of Shallow Foundation Performance Under Earthquake – Induced Liquefaction
Cooperating Organizations: Cambridge University, U.K.; University of Thessaly, Greece; University of Messina, Italy
Funding: FP7, European Commission

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS

SELECTED CONFERENCE PROCEEDINGS


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MARINA NEOPHYTOU ASSOCIATE PROFESSOR

TEL.: 22892266, FAX: 22895323, E-mail: neophytou@ucy.ac.cy

STUDIES


University of Cambridge, U.K., M.A. and Ph.D. in Environmental Fluid Mechanics, 2002

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

European Mechanics Society, Europe • American Meteorological Society (Committee Member) • International Association of Urban Climate, International • Network of Excellence on Atmospheric Composition Change ACCENT, E.U. (Associate Member) • World Urban Database and Protocol, International

RESEARCH INTERESTS

Environmental fluid dynamics and climate change; turbulent diffusion in urban areas; Buoyancy- and momentum driven turbulent flows; Sustainable and energy-based urban design; urban wind flow and dispersion modelling for emergency-response

EDITORIAL BOARDS

*International Journal of Sustainable Energy* (Editorial Board Member), U.K., Taylor and Francis Publisher

EXTERNAL RESEARCH PROGRAMMES

Urban Physics
Cooperating Organizations: Federal Institute of Technology, Zurich; Eindhoven Technical University, The Netherlands
Funding: European Mechanics Society
Towards optimization of urban planning and architectural parameters for energy-use minimization in Mediterranean Cities
Cooperating Organizations: University of Gavle, Sweden; National Institute of Hydrometeorology and Physics, Bulgaria; EXA High Performance Computing Ltd, Cyprus; ATLANTIS Environmental Consultants Ltd, Cyprus
Funding: European Research Area and URBAN-NET Call, European Commission

Multidisciplinary Center for Energy Efficiency in Sustainable Built Environments
Cooperating Organizations: EFM Laboratory, University of Cambridge, UK; Massachusetts Institute of Technology, U.S.A.; Cyprus Professional Board of Engineers, Cyprus; Ministry of Commerce, Industry and Tourism, Cyprus Energy Service, Cyprus
Funding Agency: Cyprus Research Promotion Foundation, Research Infrastructure Upgrade Call – European Commission

Transformation of wave energy into vibration motion
Cooperating Organizations: EFM Laboratory, Frederik University, Cyprus; Cyprus Ministry of Interior -Department of Public Works, Cyprus; Cyprus Ministry of Transportation – Department of Sea Works, Cyprus; Cyprus Ministry of Commerce, Industry and Tourism - Cyprus Energy Service, Cyprus
Funding Agency: Cyprus Research Promotion Foundation and Thematic Research Areas Call (Energy/Technology), European Commission

Categorisation and Labelling of Building Energy Efficiency in Cyprus
Cooperating Organizations: University of Cyprus-EFM Lab, Cyprus; Cyprus University of Technology (TEPAK), Cyprus; Cyprus Scientific and Technical Chamber of Engineers, Cyprus; Cyprus Ministry of Commerce, Industry and Tourism (Energy Service), Cyprus
Funding: RFP, Thematic Research Areas Call (Sustainability)

Performance Evaluation of Urban Pollution Dispersion Models in the Cypriot Urban Environment through experimental field campaigns
Cooperating Organizations: Ministry of Labour and Social Insurance, Cyprus; Cyprus Meteorological Service, Cyprus; University of Cambridge, U.K.; ATLANTIS Environmental Consultants Ltd; Cyprus
Funding :RFP, Research Infrastructure Call

Joint Cypriot-Romanian Research Studies for EU Harmonisation on the evaluation of Urban Pollution Dispersion Models
Cooperating Organizations: National Institute of Aerospace Research “Elie Carafoli”, Bucharest, Romania
Funding: RPF, Cyprus-Romania Bilateral Call

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


PAPANASTASIOU PANOS PROFESSOR

TEL.: 22892292, FAX: 22892295, E-mail: panospap@ucy.ac.cy

STUDIES

National Technical University of Athens, Greece, Diploma in Civil Engineering, 1984
University of Minnesota, U.S.A., M.Sc. in Geotechnical Engineering, Civil Engineering, 1986
University of Minnesota, U.S.A., Ph.D. in Geomechanics, Civil Engineering, 1990

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

Society of Petroleum Engineers (SPE), U.S.A. • British Geotechnical Society (BGS, Institution of Civil Engineers), U.K. • European Mechanics Society (EUROMECH), Europe • International Society for Rock Mechanics (ISRM), U.S.A. • International Association for Computer Methods and Advances in Geomechanics (IACMAG), U.S.A. (Board of Directors) • Greek Association for Computational Mechanics (GRACM), Greece • Hellenic Association of Theoretical and Applied Mechanics, Greece • Scientific and Technical Chamber of Engineers, Cyprus • Association of Civil Engineers, Cyprus

RESEARCH INTERESTS

Applied and Computational Mechanics; Finite Element Analysis; Micro-Mechanics, Fracture Mechanics, Flow in Porous Media; Petroleum Engineering and Management

EDITORIAL BOARDS

International Journal of Geomechanics (Editorial Advisor), U.S.A., American Society of Civil Engineers.

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)

Large-Strain Finite Element Analysis of the Limit Resistance of Slope Stabilizing Piles
EXTERNAL RESEARCH PROGRAMMES

Formation reinforcement for wellbore stability and sand control.
Cooperating Organizations: The research Council of Norway and BP Norway, Norway; SINTEF, NTNU- SINTEF, Norway; University of Minnesota, U.S.A.; Nireas, International Water Research Center, Cyprus
Funding: RPF, Cyprus

The Risk of Formation Fracturing in CO2 Geological Storage
Cooperating Organizations: Ecole des Ponts Paris Tech, France
Funding: RPF, Cyprus

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


DISTINGUISHED PUBLICATIONS

MICHAEL PETROU PROFESSOR
TEL.: 22892281, FAX: 22892295, E-mail: petrou@ucy.ac.cy

STUDIES
National Technical University of Athens, Greece, Diploma in Civil Engineering, 1987
Case Western Reserve University, U.S.A., M.Sc. in Civil Engineering, 1991
Case Western Reserve University, U.S.A., Ph.D. in Civil Engineering, 1993

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Technical Chamber of Cyprus, ETEK, Cyprus • Technical and Scientific (TEE), U.S.A. • American Concrete Institute (ACI), U.S.A. • American Society of Civil Engineers (ASCE), U.S.A. • Prestressed/Precast Concrete Institute (PCI), U.S.A.

EDITORIAL BOARDS

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Large deformation finite element analysis of limit resistance of slope stabilizing piles (SLOSTAPILES)

EXTERNAL RESEARCH PROGRAMMES
Towards an optimization of urban planning and architectural parameters for energy use minimization in Mediterranean cities
Cooperating Organizations: EXA- High Performance Computing, Cyprus; Atlantis Environmental Consulting Ltd, Cyprus; Bulgarian Academy of Sciences - National Institute of Meteorology and Hydrology, Bulgaria; University of Gavle, Sweden
Funding: URBAN-NET Projects, European Commission
Next Generation Design Guidelines for Composites in Construction
Cooperating Organization: University of Sheffield, U.K.
Funding: COST, European Cooperation in Science and Technology

Study of the Soundness of Aggregate in Order to Improve the Durability of Concrete
Cooperating Organizations: Federation of Associations of Building Contractors Cyprus, Cyprus; National and Kapodistrian University of Athens, Greece; Public Works Department, Cyprus; Latomia Mosfiliotis, Cyprus; Kaos Production Ltd, U.K.
Funding: RPF, Cyprus

Establishment of research infrastructure for the characterization and study of the decay and protection of building materials of monuments in Cyprus
Cooperating Organizations: Department of Antiquities, Cyprus; Town Planning and Housing Department, Cyprus; Anadomi Ltd; Cyprus; Cyprus Architectural Heritage Organization, Cyprus
Funding: RPF, Cyprus

Multidisciplinary centre for energy efficiency in a sustainable built environment
Cooperating Organizations: Cambridge University, U.K.; Massachusetts Institute of Technology, U.S.A.; Cyprus Scientific and Technical Chamber; Cyprus; Energy Service, Cyprus
Funding: RPF, Cyprus

Mix Design, Mechanical Properties And Impact Resistance Of Ultra High Performance Fibre Reinforced Cementitious Composites (UHPFRCs)
Cooperating Organizations: Frederick University, Cyprus; Liverpool University, U.K.; General Staff of the National Guard, Cyprus; Zebra General Constructions Ltd, Cyprus
Funding: RPF, Cyprus

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS

SELECTED CONFERENCE PROCEEDINGS
DISTINGUISHED PUBLICATIONS


PANAYIOTIS ROUSSIS ASSISTANT PROFESSOR
TEL.: 22892210, FAX: 22895465, E-mail: roussis@ucy.ac.cy

STUDIES
National Technical University of Athens, Greece, Diploma in Civil Engineering, 1996
Rice University, Houston, Texas, U.S.A., M.Sc. in Civil Engineering, 1999
State University of New York at Buffalo, New York, U.S.A., Ph.D. in Civil Engineering, 2004

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
American Society of Civil Engineers, U.S.A. • Earthquake Engineering Research Institute (EERI), U.S.A. (Affiliate Member) • Anti-Seismic Systems International Society (ASSISi), International • Cyprus Scientific and Technical Chamber (ΕΤΕΚ), Cyprus

RESEARCH INTERESTS
Earthquake engineering and structural dynamics; Seismic isolation and energy-dissipation systems; Rigid-body dynamics; biomedical engineering; biomechanics

EXTERNAL RESEARCH PROGRAMMES
Base-isolation technology for earthquake protection of cultural heritage
Funding: FP6, Marie Curie International Re-Integration Grants, Marie Curie Actions, European Commission

Seismic Retrofitting of RC frames with RC infilling – Proposals for EC8-Part 3
Cooperating Organizations: Cyprus University of Technology, Cyprus; University JF Grenoble, France; INSA-Lyon, France; DENCO, Greece
Funding: FP7, European Commission, Seismic Engineering Research Infrastructures for European Synergies (SERIES), Transnational Access.
Seismic vulnerability and strengthening of existing privately owned buildings
Cooperating Organizations: Cyprus University of Technology, Cyprus; University of Patras, Greece; Cyprus Civil Defense (Damage Rehabilitation Service), Cyprus

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


DISTINGUISHED PUBLICATIONS


STAVROULA PANTAZOPOULOU  PROFESSOR

TEL.: 22892281, FAX: 22892295, E-mail: pantaz@ucy.ac.cy

STUDIES

University of California, Berkeley, U.S.A., Ph.D. in Structural Engineering, 1987
University of California, Berkeley, U.S.A., M.Sc. in Civil Engineering, 1984
National Technical University of Athens, Greece, Diploma in Civil Engineering, 1982

RESEARCH INTERESTS

Earthquake Response of Reinforced Concrete Structures; Mechanics of Reinforced Concrete; Novel cementitious materials strengthened with synthetic fibers (PVA & PP) and nanomaterials (CNTs and CNFs); Seismic Assessment, Strengthening and Repair of Old Construction – Use of FRPs in Retrofit; Seismic Behavior of traditional masonry structures and monuments
EDITORIAL BOARDS

*Earthquakes and Structures*, Korea, Technopress

EXTERNAL RESEARCH PROGRAMMES

Novel Materials in Seismic Assessment and Retrofit of Existing R.C. Structures (NoMaSeism-RC)
Cooperating Organizations: Democritus University, Greece; University of Padova, Italy; University of Granada, Spain
Funding: Mediterranean Office for Youth, European Commission

Next Generation Design Guidelines for Composites in Construction
Cooperating Organization: University of Minho, Portugal
Funding: Cost Action TU1207 and FP7, European Commission

Quality Specifications for Roadway Bridges, Standardization at a European level (BridgeSpec)
Cooperating Organization: University of Sheffield, U.K.
Funding: Cost Action TU1406 and FP7, European Commission

Center for Multifunctional Nanocomposite Construction Materials (ΘΑΛΗΣ)
Cooperating organization: Democritus University of Thrace, Greece
Funding: European Commission.

Methodology for Seismic Retrofit of Traditional Unreinforced Masonry
Funding: Research Committee, Democritus University of Thrace

Analysis Methods of Heritage Structures and Monuments
Funding: Organization of Anti-Seismic Technology and Protection, Greece (OASP)

State of the art report for the analysis methods for unreinforced masonry heritage structures and monuments
Funding: European Center for the prognosis and forecasting of earthquakes

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
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<tbody>
<tr>
<td>Marco A. Antoniades</td>
<td>Lecturer</td>
</tr>
<tr>
<td>Charalambos A. Charalambous</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Charalambos D. Charalambous</td>
<td>Professor</td>
</tr>
<tr>
<td>Georgios Ellinas</td>
<td>Associate Professor</td>
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<tr>
<td>George E. Georgiou</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Julius Georgiou</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Christoforos Hadjicostis</td>
<td>Professor</td>
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<tr>
<td>Stavros Iezekiel</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Ioannis Krikides</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Elias Kyriakides</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Maria K. Michael</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Chrysostomos Nicopoulos</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Christos Panayiotou</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Constantinos Pitris</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Marios Polycarpou</td>
<td>Professor</td>
</tr>
<tr>
<td>Theocharis Theocharides</td>
<td>Assistant Professor</td>
</tr>
</tbody>
</table>
The disciplines of electrical, electronic, and computer engineering are constantly creating new technologies that revolutionize modern society. Our role at the Department of Electrical and Computer Engineering (ECE) is to be a significant part of this process, through the education of future engineers and the creation of new knowledge. We offer undergraduate and postgraduate programmes of study, leading to B.Sc., M.Sc., M.Eng. and Ph.D. degrees, in both Electrical Engineering and Computer Engineering. In parallel, we have strong and internationally visible research activities, that are well funded and cover a wide spectrum of topics.

The Department of Electrical and Computer Engineering was established in 2001 and enrolled its first undergraduate students in 2003. We currently have 17 full-time academic staff, and this number is projected to rise over the coming years. There are approximately 500 students currently registered in the Department, 120 postgraduate and 380 undergraduate. Our ethos is to aspire to excellence, and our students are a vital part of this. Over the years, our faculty have been awarded numerous research projects and grants, funded primarily by the European Commission and national sources. This funding success continues, and it is vital to our future aspiration to become a leading ECE Department in Europe.

We are fortunate to have a good blend of up-and-coming junior faculty along with senior faculty, that have had extensive experience in various prominent universities. All our academic staff are active researchers, whose work is regularly published in leading journals and conference proceedings and who have a strong commitment to research-led teaching. The international visibility of our staff is also reflected in the many citations they receive and the important positions they hold, such as Editors-in-Chief and Associate Editors of leading journals, Chairs of international conferences, and leading members of various professional societies.

Georgios Ellinas
Chairperson
MARCO A. ANTONIADES  LECTURER

TEL.: 22892234, FAX: 22895079, E-mail: mantonia@ucy.ac.cy

STUDIES
University of Waterloo, Canada, B.A.Sc. in Electrical Engineering, 2001
University of Toronto, Canada, M.A.Sc. in Electrical Engineering, 2003
University of Toronto, Canada, Ph.D. in Electrical Engineering, 2009

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
European Association on Antennas and Propagation (EurAAP), Belgium • Institute of Electrical and Electronics Engineers (IEEE), U.S.A. • IEEE Antennas and Propagation Society (AP-S), U.S.A. • IEEE Microwave Theory and Techniques Society (MTT-S), U.S.A.

RESEARCH INTERESTS
Antenna design and miniaturization; RF, microwave and millimeter-wave circuits and devices; Engineered electromagnetic materials such as negative-refractive-index metamaterials; Implantable/wearable antennas and devices for biomedical applications; Electromagnetic energy harvesting systems for wireless sensor networks and radio identification

EDITORIAL BOARDS

PUBLICATIONS

CHAPTERS IN BOOKS

SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


CHARALAMBOΣ A. CHARALAMBOΣ ASSOCIATE PROFESSOR

TEL.: 22892285, FAX: 22892260, E-mail: cchara@ucy.ac.cy

STUDIES

UMIST, U.K., B.Eng. (Honours) in Electrical and Electronic Engineering, 2002
The University of Manchester, U.K., Ph.D. in Electrical Power Engineering, 2006

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

Institute of Engineering and Technology (MIET), U.K. • Cyprus Scientific and Technical Chamber (ETEK) • Institute of Electrical and Electronic Engineers (MIEEE), U.S.A.

RESEARCH INTERESTS

Electrical Control and Analysis of DC Corrosion; Engineering Cost/Benefit Analysis and Risk Management; Earthing/Lightning Protection – Solar Applications and LV systems; Loss Evaluation Distribution Systems; Earthing Design for AC/DC Microgrids

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)

Engineering a Socio-Intelligent Class of Energy Users

EXTERNAL RESEARCH PROGRAMMES

Dynamic Stray Current and Interference Assessments
Funding: ELEMKO SA GR.
Identifying The Hidden Costs of Net Metering Practices and Extrapolating Their Impact on Losses Cost and Benefit Allocation (HIDNET)
Funding: Distribution System Operator (DSO)
Reviewing and Optimising L.V. Earthing Policy and Practice (EARTHOPT)
Funding: Electricity Authority of Cyprus
Life Cycle Loss Evaluation of Power Transformers Serving Large Scale Renewable Energy Plants (EVLOCOST)
Funding: Electricity Authority of Cyprus

PUBLICATIONS

BOOKS
SELECTED JOURNAL PUBLICATIONS

SELECTED CONFERENCE PROCEEDINGS

DISTINGUISHED PUBLICATIONS
CHARALAMBOS D. CHARALAMBOUS  PROFESSOR
TEL.: 22892253, FAX: 22892260, E-mail: chadcha@ucy.ac.cy

STUDIES
Old Dominion University, U.S.A., B.Sc. in Electrical Engineering, 1987
Old Dominion University, U.S.A., M.Sc. in Engineering, 1988
Old Dominion University, U.S.A., Ph.D. in Engineering, 1992

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
IEEE Control Systems, U.S.A. • IEEE Information Theory, U.S.A. • IFAC (International Federation on Automatic Control), EUROPE

RESEARCH INTERESTS
Optimization of Stochastic Systems; information theory; telecommunications and networks; decentralized optimization, cooperative and noncooperative stochastic games.

EDITORIAL BOARDS
IEEE Communication Letters (Associate Editor), U.S.A., IEEE • International Federation of Automatic Control (Chairman of Technical Committee on Stochastic System, Europe, IFAC • Mathematics of Control Signals and Systems (Associate Editor), Europe, Springer-Verlag • Systems and Control Letters, (Associate Editor), U.S.A., Elsevier.

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Network Control and Communication

EXTERNAL RESEARCH PROGRAMMES
Control for Coordination of Distributed Systems, STREP
Funding: European Commission
Design and Implementation of Robust Control Over Finite Capacity Communication Channels
Funding: RPF, Cyprus

PUBLICATIONS
SELECTED JOURNAL PUBLICATIONS


**DISTINGUISHED PUBLICATIONS**


GEORGIOS ELLINAS ASSOCIATE PROFESSOR
TEL.: 22892273, FAX: 22892260, E-mail: gellinas@ucy.ac.cy

STUDIES
Columbia University in the City of New York, U.S.A., B.Sc. in Electrical Engineering, 1991
Columbia University in the City of New York, U.S.A., M.Sc. in Electrical Engineering, 1993
Columbia University in the City of New York, U.S.A., M.Phil. in Electrical Engineering, 1995
Columbia University in the City of New York, U.S.A., Ph.D. in Electrical Engineering, 1998

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Institute of Electrical and Electronic Engineers (IEEE), International (Senior Member) • The Optical Society of America (OSA), U.S.A. • Association for Computing Machinery (ACM) • Marie Curie Fellows Association, Europe (MCFA Affiliate) • Photonics21 Association, Europe

RESEARCH INTERESTS
Optical Access Networks; Quality-of-Transmission Aware Routing and Wavelength Assignment (RWA) in Optical Networks; Green Optical Networks; Complex Network Theory; Converged Optical-Wireless Access Networks; Intelligent Transportation Systems

EXTERNAL RESEARCH PROGRAMMES
Security Enhancement of Optical Network Logical Design (SHIELD)
Funding: European Commission, Marie Curie Career Integration Grant (CIG), Framework Programme 7 (FP7)

Autonomic Wireless Networking for the Future Internet through Distributed Policy-Based Management
Funding: RPF, Cyprus

Converged Fixed-Mobile Networking Transport Infrastructure for Next-Generation Broadband Access
Funding: RPF, Cyprus

Novel Design and Simulation Software Tool for Provisioning and Restoration of Broadcast and Multicast Connections in Optical Mesh Networks
Funding: RPF, Cyprus

KIOS Research Center for Intelligent Systems and Networks
Funding: RPF, Cyprus

Next Generation Hybrid Optical-Wireless Communications Laboratory
Funding: RPF, Cyprus

Intelligent Monitoring, Control and Security of Critical Infrastructure Systems (IntelliCIS)
Funding: COST Programme, European Science Foundation (ESF)
KIOS Research Center of Excellence for Intelligent Systems and Network (KIOS)
Funding: European Commission H2020 WIDESPREAD TEAMING Programme

PUBLICATIONS

BOOKS


CHAPTERS IN BOOKS


SELECTED JOURNAL PUBLICATIONS


**SELECTED CONFERENCE PROCEEDINGS**


**DISTINGUISHED PUBLICATIONS**


GEORGE E. GEORGHIOU  ASSOCIATE PROFESSOR
TEL.: 22892272, FAX: 22895370, E-mail: geg@ucy.ac.cy

STUDIES
University of Cambridge, U.K., B.A., 1995
University of Cambridge, U.K., M.Eng., 1996
University of Cambridge, U.K., M.A., 1996
University of Cambridge, U.K., Ph.D., 1999

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
SET Plan European, Europe • European PV Mirror Group, E.U. • IEC Standards, International • CENELEC, Europe • Cyprus Energy Agency, Cyprus • FP7 Energy Committee, Europe • Solar European Industrial Initiative IEA Energy PVPS, Europe • Grid Integration Expert Group of the EU PV Technology Platform, Europe • Building Integration Expert Group of the EU PV Technology Platform, Europe • Cyprus National Energy Policy Council (appointed by the President of Cyprus), Cyprus

RESEARCH INTERESTS
Photovoltaics; renewable energy sources; electromagnetic; solar energy, smart grids; numerical modelling

EDITORIAL BOARDS
International Journal of Photoenergy (Guest Editor for a Special Issue on Photovoltaics), U.S.A., Worldwide Publishers Ltd.

EXTERNAL RESEARCH PROGRAMMES
Renewable energy management for small and medium scale distributed generators in rural environments, GREEN+
Cooperating Organizations: Electricity Authority of Cyprus, Cyprus; National Technical University of Athens (NTUA), Greece; Cyprus Energy Agency (CEA), Cyprus
Funding: second NER300 Call
Evaluation of new thin film CiGs TSMC modules and their comparison with the crystalline counterparts
Cooperating Organizations: GESOLAR, Cyprus; TSMC, Taiwan
Funding: TSMC and GESOLAR
Smart Net Metering for promotion and cost-efficient grid integration of PV technology in Cyprus, SmartPV
Cooperating Organizations: Deloitte Ltd, Cyprus; Department of Environment of the Ministry of Agriculture, Natural Resources and Environment (MANRE), Cyprus; Electricity Authority of Cyprus (EAC), Cyprus; Cyprus Energy Regulatory Authority (CERA), Cyprus
Funding: EU Life+
Promotion of PV through net metering optimization, PV-NET, 2013
Cooperating Organizations: MEDProject funded by MED, Europe; Cyprus Energy Agency and Rhonalpenergie- Environnement (RAEE), Cyprus
Funding: FEU MED

The Development of a modern Energy Lab for Vocational Training in Renewable Energy Sources
Cooperating Organization: KEPA, Cyprus
Funding: KEPA

Monitoring and evaluation of Novel Photovoltaic technologies based on new backsheet materials
Funding: Honeywell Corporation and Specialty Materials

PID and other degradation effects in PV Modules
Cooperating Organizations: QCells Hanwa GMBH, Germany
Funding: QCells Hanwa GMBH

Modernising Undergraduate Renewable Energy Education: EU Experience for Jordan
Cooperating Organizations: Graz University of Technology, Austria; Hashemite University, Jordan; IGFOTON, Spain; Jordan University of Science and Technology, Jordan; Mutah University, Jordan; Naim Energy Technologies, The Netherlands; Spanish National University for Distance Learning, Spain; Sapienza University of Rome, Italy; Technical University of Berlin, Germany; The University of Jordan, Jordan
Funding: TEMPUS, E.U. Commission

Thin film PV technologies in harsh Conditions
Cooperating Organizations: OERLIKON SOLAR, International
Funding: OERLIKON SOLAR

Sunlight Project – Performance assessment based on the IEC standards
Cooperating Organization: PI Berlin, Germany
Funding: PI Berlin

Reliable assessment of degradation in new thin film PV Technologies
Cooperating Organizations: IPV, Germany; University of Barcelona, Spain; AIT, Austria; Cyprus Energy Regulatory Authority, Cyprus
Funding: RPF, Cyprus

Development of diagnostics and modelling of plasma jets at atmospheric pressure for direct treatment of living tissue
Cooperating Organization: University of Iasi, Romania
Funding: RPF, Cyprus

Design and Implementation of a Novel Wireless Receiver Chain using Metamaterial Quadband Devices Project funded by the Research Promotion Foundation
Cooperating Organizations: University of Toronto, Canada; Universitat Autonoma de Barcelona, Spain
Funding: RPF, Cyprus
Advanced Photovoltaic Research and Testing for Improved Technologies
Cooperating Organizations: Institute of Physical Electronics University of Stuttgart, Germany; Arsenal Research, Austria; CREST, U.K.; CRES, Greece
Funding: RPF, Cyprus

Design implementation and characterisation of optimised concentrator photovoltaic systems for future uptake in regions of high solar irradiance
Cooperating Organizations: Institute of Physical Electronics, University of Stuttgart Germany; CRES, Greece; Whitfield Solar, U.K.; Conergy, International
Funding: RPF, Cyprus

The development and implementation of a novel online partial discharge condition monitoring system for the prediction of faults in T&D cables
Cooperating Organizations: University of Southampton, U.K.; University of Leicester, U.K.; University of Sheffield, U.K.; Caramondanis Desalination Plant Ltd, Cyprus
Funding: RPF, Cyprus

Characterisation of novel Photovoltaics Systems of improved performance through continuous monitoring of performance and meteorological data
Cooperating Organizations: Institute of Physical Electronics, University of Stuttgart, Germany; Energy Conversion Group, Department of Engineering, University of Cambridge, U.K.; Cyprus Energy Regulatory Authority, Cyprus; Electricity Authority of Cyprus, Cyprus
Funding: RPF, Cyprus

Super-resolution microwave imaging with metamaterial lenses
Cooperating Organization: University of Toronto, Canada
Funding: RPF, Cyprus

Partial Discharge Condition Monitoring for HV assets
Cooperating Organizations: University of Cambridge, U.K.; University of Southampton, U.K.
Funding: RPF, Cyprus

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


JULIUS GEORGIOU  ASSOCIATE PROFESSOR
TEL.: 22892264, FAX: 22892260, E-mail: Julio@ucy.ac.cy

STUDIES
Imperial College London, U.K., Master of Electrical and Electronic Engineering, 1994-1998
Imperial College London, U.K., Ph.D. in Philosophy, 1998-2003
Johns Hopkins University, U.S.A., Postdoctoral Fellow, 2004-2005

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

RESEARCH INTERESTS
Digital and Analogue Low-power Circuit Design; Biomedical Circuits and Systems, including implantable devices; Brain Computer interfaces; Bioinspired Computational Systems; Sensor Design, including image, inertial and radiation sensors

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Improving the Performance of Hybrid Photovoltaic/Thermal Solar Systems

EXTERNAL RESEARCH PROGRAMMES
Memristors-Devices, Models, Circuits, Systems and Applications (MemoCiS)
Cooperating Organizations: organizations from 19 countries
Funding: Horizon 2020, COST Office
An Ultra-low-Power Bioinspired Microfluidic Gyroscope
Funding: MED-EL Elektromedizinische Geräte GmbH
Development of Rad Hard non-volatile Flash Memories for Space Applications
Cooperating Organizations: Red Cat Devices Srl, Israel; Universita Degli Studi di Milano, Italy; Universita Degli Studi di Padova, Italy; Tower Semiconductor, Israel; Jyvaskyylan Yliopisto, Finland; Universidade de Santiago de Compostela, Spain
Funding: FP7-SPACE-2010-1 – Space Technologies
Acoustic Scene Analysis for Detecting Living Entities
Cooperating Organizations: University of Zurich, Switzerland; University of Plymouth, U.K.; University Oldenburg, Germany; Magyar Tudomanyos Akademia, Hungary
Memristors for Bioinspired Circuit Design RENEK/0609/77
Cooperating Organization: Ecole Polytechnique Federale de Lausanne, Switzerland
Funding: RPF, Cyprus
KIOS Research Center for Intelligent Systems and Networks
Cooperating Organizations: ETH, Zurich; Arizona State University, U.S.A.; Boston University, U.S.A.
Funding: RPF, Cyprus
Monitoring of Awareness During Anaesthesia
Cooperating Organization: Nicosia General Hospital, Cyprus
Funding: RPF, Cyprus

PATENTS

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS

DISTINGUISHED PUBLICATIONS
CHRISTOFOROS N. HADJICOSTIS  PROFESSOR

TEL.: 22892231, FAX: 22895079, E-mail: chadjic@ucy.ac.cy

STUDIES
MIT, U.S.A., S.B. in Electrical Engineering, 1993
MIT, U.S.A., S.B. in Computer Science and Engineering, 1993
MIT, U.S.A., M.Eng. in Electrical Engineering and Computer Science, 1995
MIT, U.S.A., S.B. in Mathematics, 1999
MIT, U.S.A., Ph.D. in Electrical Engineering and Computer Science, 1999

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
IEEE Circuits and Systems Society (senior member) •IEEE Control Systems Society (senior member) • IEEE Information Theory Society (senior member) •IEEE Robotics and Automation Society (senior member) • IFAC (member)

RESEARCH INTERESTS
Fault-tolerant combinational/sequential systems/error control coding; Distributed algorithms for estimation, diagnosis, and control/applications to cyber-physical systems, and networks of embedded sensors and actuators; Systems and automation/discrete event systems/coding and graph theory; Monitoring, diagnosis and control/model classification and anomaly detection/applications to network security, medical diagnosis, and biosequencing

EDITORIAL BOARDS
IEEE Transactions on Automatic Control (Associate Editor), U.S.A., IEEE • IEEE Transactions on Control Systems Technology (Associate Editor), U.S.A., IEEE • International Journal on Discrete Event Dynamic Systems: Theory and Applications (Associate Editor), Germany, Springer • Journal of Nonlinear Analysis: Hybrid Systems (Guest Lead Associate Editor), Elsevier, Netherlands • IEEE Transactions on Automation Science and Engineering (Guest Associate Editor), U.S.A., IEEE

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Uncertain Communication and Control Systems

EXTERNAL RESEARCH PROGRAMMES
CropClock: Increasing Crop Biomass by Uncovering the Circadian Clock Network using Dynamical Models, Joint ERASySAPP Call Transferring Systems Biology Knowledge into Applications
Cooperating Organization: University of Luxemburg, Luxemburg; Max-Plank Institute for Plant Breeding Research, Germany;and Linkoping University, Sweden
Funding: FP7, European Commission
DISCON: Communication for Control of Distributed Systems  
Cooperating Organization: Texas A&M University, U.S.A.; Texas A&M University, Qatar  
Funding: Qatar Foundation

C4C: Control for Coordination of Distributed Systems  
Cooperating Organization: CWI, Netherlands; University of Verona, Italy; University of Thessaly, Greece; Delft University of Technology, Netherlands; Eindhoven University of Technology, Netherlands; University of Gent, Belgium; University of Porto, Portugal; HNN, Netherlands; Oce, Netherlands; Trinite, Netherlands.  
Funding: FP7, European Commission

ResNet: Resilient Network Control Systems  
Cooperating Organization: University of Illinois at Urbana-Champaign, U.S.A.  
Funding: FP7, European Commission

Intelligent Monitoring, Control and Security of Critical Infrastructure Systems (IntelliCIS)  
Cooperating Organizations: organizations from several countries  
Funding: COST Action, European Commission

Full-Duplex Radio for LTE Communication Systems  
Cooperating Organizations: SignalGeneriX, Cyprus; Rio Systems, Israel  
Funding: RPF, Cyprus

Distributed Control Strategies with Application to Robust Fractional Order Controllers for Distillation  
Cooperating Organization: Universitatea Tehnica din Cluj-Napoca, Romania  
Funding: RPF, Cyprus

Participation in FP7 Programs Deminimis Grant  
Funding: RPF, Cyprus

Compositional Techniques for Analysis of safety Critical Interconnected Systems  
Cooperating Organization: University of Cagliari, Italy  
Funding: RPF, Cyprus

Intelligent Systems and Networks  
Cooperating Organizations: KIOS Research Center, Cyprus  
Funding: RPF, Cyprus

Nanoscale Modelling and Optimization of Hard Disk Drive Design with Experimental Validation for Ultrahigh Recording Densities  
Cooperating Organization: University of Illinois at Urbana-Champaign, U.S.A.  
Funding: RPF, Cyprus
PUBLICATIONS

CHAPTERS IN BOOKS

SELECTED JOURNAL PUBLICATIONS

SELECTED CONFERENCE PROCEEDINGS
DISTINGUISHED PUBLICATIONS


STAVROS IEZEKIEL ASSOCIATE PROFESSOR
TEL.: 22892190, FAX: 22892260, E-mail: lezekiel@ucy.ac.cy

STUDIES
University of Leeds, U.K., B.Eng. in Electrical and Electronic Engineering, 1987
University of Leeds, U.K., Ph.D. in Electronic and Electrical Engineering, 1992

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
IEEE, U.S.A. (Senior Member) • IEEE, U.S.A. • IEEE, Microwave Theory and Techniques Society, U.S.A. • IEEE, Microwave Theory and Techniques Society, U.S.A. • IET, U.K. (Editor-in-chief of IET Microwaves, Antennas and Propagation) • Institute of Physics, U.K. (Chartered Physicist) • Optical Society of America (Senior Member) • European Microwave Association, Europe

RESEARCH INTERESTS
Microwave photonics; integrated optics; semiconductor lasers

EDITORIAL BOARDS

EXTERNAL RESEARCH PROGRAMMES
FiWin5G
Cooperating organizations: UCL, U.K.; Universitat Duisburg-Essen; UC3M; INP Grenoble; BUTE; University of Ljubljana; DTU; CNIT; III-V Lab
Funding: Horizon 2020
RADEX (Extended Reach Radio over Fiber)
Funding: RPF Cyprus
Modelling and optimization tools for radio-over-fibre systems
Funding: RPF, Cyprus

Next Generation Hybrid Optical-Wireless Communications Laboratory
Funding: RPF, Cyprus

NANOCAP (Nanostructured Optical Components for CBRN Detection and High Performance Opto-microwave Links)
Cooperating organizations: University of Valencia (Nanophotonics Technology Centre), Spain; Politecnico di Milano, Italy; SELEX Roma, Italy; Institute of Saint-Louis; DAS Photonics; Institute of Protein Biochemistry (Napoli), Italy
Funding: European Defence Agency

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


**IOANNIS KRIKIDIS** ASSISTANT PROFESSOR  
TEL.: 22895159, FAX: 22892260, E-mail: krikidis@ucy.ac.cy

**STUDIES**  
CEID, University of Patras, Greece, Diploma in Computer Engineering & Informatics, 2000  
École Nationale Supérieure des Télécommunications, France, M.S. in Telecommunication Systems, 2001  
École Nationale Supérieure des Télécommunications, France, Ph.D. in Wireless Communications, 2005

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**  
Institute of Electrical and Electronics Engineers (IEEE), International (Senior Member) • The Technical Chamber of Greece, Greece • European Research Consortium for Informatics and Mathematics, Europe (UCY Representative)

**RESEARCH INTERESTS**  
Wireless Communications; Signal Processing; Cooperative networks; Full-duplex radio; Wireless powered communications

**EDITORIAL BOARDS**  
*Transactions on Communications* (Associate Editor), International, IEEE • *Transactions on Vehicular Technology* (Associate Editor), International, IEEE • *Wireless Communications Letters* (Associate Editor), International, IEEE • *Journal of Selected Topics in Signal Processing* (Lead Guest Editor), International, IEEE • *Journal on Wireless Communications and Networking* (Guest Editor), International, IEEE • *Journal on Advances in Signal Processing* (Guest Editor), International, EURASIP • *Transactions on Emerging Telecommunications Technologies* (Associate Editor), International, Wiley

**EXTERNAL RESEARCH PROGRAMMES**  
Full Duplex Radio: modeling, analysis and Design (FD-RD)  
Funding: RPF, Young Researcher Award
PUBLICATIONS

CHAPTERS IN BOOKS

SELECTED JOURNAL PUBLICATIONS


DISTINGUISHED PUBLICATIONS


**ELIAS KYRIAKIDES** ASSOCIATE PROFESSOR

TEL.: 22892291, FAX: 22893455, E-mail: elias@ucy.ac.cy

**STUDIES**

Higher Technical Institute, Cyprus, Diploma, 1996
Arizona State University, U.S.A., M.Sc., 2001
Arizona State University, U.S.A., Ph.D., 2003

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**

Institute of Electrical and Electronic Engineers (IEEE), International (Senior Member) • Institution of Engineering and Technology (IET), International (Chartered Engineer) • IEEE Power and Energy Society (PES), International • IEEE Industry Applications Society (IAS), International • IEEE Computational Intelligence Society (CIS), International • IEEE Instrumentation and Measurement Society, International • IEEE Standards Association (SA), International • CIGRE International Council on Large Electric Systems, International • ETEK Technical Chamber of Cyprus, Cyprus

**RESEARCH INTERESTS**

Design and analysis of electric power systems; synchronized measurements in power systems; power system operations (economic dispatch, load forecasting); stability and operation of renewable energy sources connected to the power grid; critical infrastructure systems.

**EDITORIAL BOARDS**

*IEEE Systems Journal* (Associate Editor), U.S.A., IEEE • *Simulation Modelling Practice and Theory* (Area Editor), The Netherlands, Elsevier • *The Open Electrical and Electronic Engineering Journal (OEEE)* (Editorial Board Member), U.S.A., Bentham.
INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Synchronized measurements in power systems for improved security, monitoring and control (WiFi-POWER)

EXTERNAL RESEARCH PROGRAMMES
Critical infrastructure preparedness and resilience research network (CIPRNet), Network of Excellence
Cooperating Organization: Fraunhofer – Institute for Intelligent Analysis and Information Systems, Germany
Funding: FP7, European Commission
Intelligent Monitoring, Control and Security of Critical Infrastructure Systems (IntelliCIS), COST Action IC0806
Cooperating Organizations: Partners from 36 countries
Funding: European Science Foundation
A zero CO2 emissions electricity generation prototype (ZeroCO2)
Funding: EEA Grants
Synchronized measurement technology for a higher degree of monitoring and control in the power systems of Cyprus and Romania (SyncPower)
Cooperating Organization: University Politehnica of Bucharest, Romania
Funding: RPF, Cyprus
The formulation of the next generation state estimator by utilizing synchronized phasor measurements
Cooperating Organization: University Politehnica of Bucharest, Romania
Funding: RPF, Cyprus
Enhancement of power system integrity and stability using novel sensing technologies
Funding: RPF, Cyprus
The use of telecommunications and GPS technology for the real-time wide-area monitoring and control of power systems
Cooperating Organizations: Transmission System Operator, Cyprus; Arizona State University, U.S.A.; University Politehnica of Bucharest, Romania
Funding: RPF, Cyprus
Enabling the integration of wide area measurement systems in the electric power grids of Cyprus and Romania (ADVANCEDGRIDS)
Cooperating Organization: University Politehnica of Bucharest, Romania
Funding: RPF, Cyprus
KIOS Research Center for Intelligent Systems and Networks
Cooperating Organizations: Arizona State University, USA; Boston University, U.S.A.; Politecnico di Milano, Italy, ETH Zurich, Switzerland
Funding: RPF, Cyprus
Electric load forecasting using neural networks
Cooperating Organizations: Missouri University of Science and Technology, U.S.A.; Cyprus Energy Regulatory Authority, Cyprus
Funding: RPF, Cyprus

Power quality assessment in active distribution networks (PQACTNET)
Cooperating Organization: University Politehnica of Bucharest, Romania
Funding: RPF, Cyprus

From Virtual Worlds to Virtual Engineering Classrooms: Emerging Virtual Learning Experiences in Engineering and English as a Second Language
Cooperating Organization: CPL Innovations Ltd, Cyprus
Funding: RPF, Cyprus

Development of an advanced electric generator design tool for the power engineering industry
Cooperating Organization: EMValley Ltd, Cyprus
Funding: RPF, Cyprus

PATENTS


PUBLICATIONS

BOOKS


CHAPTERS IN BOOKS


SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


DISTINGUISHED PUBLICATIONS


MARIA K. MICHAEL  ASSOCIATE PROFESSOR
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STUDIES
Southern Illinois University, U.S.A., B.Sc. in Computer Science, 1996
Southern Illinois University, U.S.A., M.Sc. in Computer Science, 1998
Southern Illinois University, U.S.A., Ph.D. in Engineering Sciences (Computer Engineering), 2002

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Association on Computing Machinery (ACM), International • ACM Special Interest Group on Design Automation (SIGDA), International • Institute of Electrical and Electronic Engineers (IEEE), International • IEEE Circuits and Systems Society (CAS), International • IEEE Computer Society, International • IEEE Test Technology Technical Council (TTTC), International • IEEE TC on Design Automation, International • IEEE TC on Fault Tolerance, International • IEEE TC on VLSI, International • IEEE Society of Women Engineers, International • IEEE Cyprus Chapter, International • Gamma Beta Phi Society, U.S.A.

RESEARCH INTERESTS
Design and test automation for VLSI circuits and systems; Fault tolerance and reliability of digital systems; Embedded and general-purpose multi-/many-core systems reliability and on-line test; Intelligent methods for design, test and fault tolerance; Graph theory and (parallel) algorithms for CAD tools.

EXTERNAL RESEARCH PROGRAMMES
Manufacturable and Dependable Multi-core Architectures at Nanoscale (MEDIAN)
Cooperating Organizations: University of Rome “Tor Vergata”, Italy; Politecnico di Milano, Italy; TU Delft, Netherlands; University of Athens, Greece
Funding: European Science Foundation, EU COST Action IC1103
RUNNER: Reconfigurable Ultra-Autonomous Novel Robots
Cooperating Organizations: EUROSTARS - EUREKA, Europe
Funding: FP7, European Commission
SAFEMETAL: Increasing EU Citizen security by utilizing innovative intelligent signal processing systems for Euro-coin validation and metal quality testing
Cooperating Organizations: EDIS, Slovakia; Algosystems AE, Greece; Tallinna Tehnikaulikool, Estonia; AS Metrosert, Estonia; Electronics Design Ltd, Estonia; Rigas Tehniska Universitate, Latvia; Teleommunication Systems Institute, Greece
Funding: FP7, European Commission, Research for the benefit of SMEs
SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


**CHRYSOSTOMOS NICOPoulos**  ASSISTANT PROFESSOR

TEL.: 22892199, FAX: 22895073, E-mail: nicopoulos@ucy.ac.cy

**STUDIES**

Pennsylvania State University, U.S.A., B.Sc. in Electrical Engineering, 2003
Pennsylvania State University, U.S.A., Ph.D. in Electrical Engineering, 2007

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**

Institute of Electrical and Electronics Engineers (IEEE), International • IEEE Computer Society, U.S.A./International • Association for Computing Machinery (ACM), U.S.A. • SIGARCH and SIGMICRO Special Interest Groups, U.S.A./International

**RESEARCH INTERESTS**

Multi-/Many-Core Computer Architecture; Microprocessor & System Design; Fault-tolerant and Reliable Computer Architecture; Architectural Challenges in Terascale Integration; Network-on-Chip (NoC) Architectures

**EXTERNAL RESEARCH PROGRAMMES**

High Performance and Embedded Architectures and Compilation (HiPEAC) Network of Excellence
Funding: European Union FP6/7 Network of Excellence

HARPA: Harnessing Performance Variability
Cooperating Organizations: Politecnico di Milano, Italy; Interuniversitair Micro-Electronica Center (IMEC), Belgium; Institute of Communication and Computer Systems (ICCS), NTUA, Greece; IT4Innovations, Czech Republic; Thales Communications & Security SAS, France; Henesis S.R.L., Italy
Funding: European Union FP7 STREP project

EuroCloud: Energy-conscious 3D Server-on-Chip for Green Cloud
Cooperating Organizations: Nokia Corp., Finland; ARM Holdings, U.K.; EPFL, Switzerland; IMEC, Belgium
Funding: European Union FP7 STREP project
Mnemosyne: An Intelligent On-Chip Network for the Cache/Memory Sub-System of Chip Multi-Processors  
Cooperating Organizations: Cyprus University of Technology, Cyprus; EPFL, Switzerland; IBM Cyprus  
Funding: RPF, Cyprus

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


CHRISTOS PANAYIOTOU  ASSOCIATE PROFESSOR

TEL.: 22892298, FAX: 22893455, E-mail: christosp@ucy.ac.cy

STUDIES
University of Massachusetts, Amberst, U.S.A., B.Sc. in Electrical Engineering, 1994
University of Massachusetts, Amberst, U.S.A., MBA, 1999
University of Massachusetts, Amberst, U.S.A., Ph.D. in Electrical and Computer Engineering 1999

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
IEEE, U.S.A. • IEEE, Cyprus Section • ACM, U.S.A.

RESEARCH INTERESTS
Fault diagnosis; Wireless Sensor and camera Networks; Event Detection and Localization; Discrete Event and Hybrid Systems; Performance Evaluation and Optimization of Networks

EDITORIAL BOARDS
Conference Editorial Board of IEEE Control Systems Society (Associate Editor), U.S.A., IEEE • Transactions on Control Systems Technology (Associate Editor), U.S.A, IEEE • Journal of Discrete Event Dynamic Systems: Theory and Applications (Associate Editor), Germany, Springer • European Journal of Control (Associate Editor), The Netherlands, Elsevier B.V.

EXTERNAL RESEARCH PROGRAMMES
TEAMING KIOS: Research Center of Excellence for Intelligent Systems and Networks
Cooperating Organization: Imperial College London, U.K.
Funding: European Commission (H2020)

Concorde: Development of Coordination Mechanisms Under Different Kinds of Emergency
Cooperating Organizations: Cambridge University Hospitals, U.K.; European Dynamics, Greece; INOVA+, Portugal; Koc University, Turkey; Hellenic Rescue Team, Greece; STICHTING CRISISLAB, The Netherlands; SIVECO, Romania; Crisis Training, Norway; VTT Technical Research Centre of Finland, Finland; National Centre for Scientific Research “Demokritos”, Greece; Konnekt-able Technologies Limited, Republic of Ireland; Public Safety Communication Europe Forum, Belgium; ESRI Portugal – Sistemas e Informação Geográfica, Portugal
Funding: FP7, European Commission

EFFINET: Efficient Integrated Real time Monitoring and Control of Drinking Water Networks
Cooperating Organizations: Aqualogy Aqua Ambiente Servicios Integrales S.A., Spain; CETaqua Water Technology Center, Spain; Institute of Robotics and Industrial Computing, UPC Spain; IMT (Istituzioni, Mercati, Tecnologie), Italy; Agua de Barcelona , Spain; Water Board of Limassol, Cyprus; Gemalto, The Netherlands; Signalgenerix Ltd, Cyprus
Funding: FP7, European Commission
FACIES: Online Identification of Failure and Attack on Interdependent Critical Infrastructures
Cooperating Organizations: Università Campus Bio-Medico di Roma, Italy; University of Malaga, Spain; RadioLabs – Consorzio Università Industria – Laboratori di Radiocomunicazioni, Italy
Funding: FP7, European Commission
iSense: Making Sense of Nonsenses
Cooperating Organizations: Politecnico Di Milano, Italy; The Centre of Excellence for Research in Computational Intelligence and Applications (CERCIA) - The University of Birmingham, U.K.; Universidad Politecnica de Catalunya, Spain
Funding: FP7, European Commission
WATERBEE DA: Intelligent ZigBee Enabled Water Irrigation System (UCY-PI) Demonstration Project
Cooperating Organizations: IRIS, Spain; University of Warwick, U.K.; CMF, Malta; Intercrop Iberica, Spain; SEEDRI, Estonia; MBS, U.K.; LAQUA, Sweden; MAC, Ireland; OSV, Italy
Funding: FP7, European Commission
Intelligent Monitoring, Control and Security of Critical Infrastructure Systems (IntelliCIS)
Cooperating Organizations: Academic and industrial organizations from 21 countries
Funding: European Science Foundation
C4C: Cooperation for Control
Cooperating Organizations: Centrum Wiskunde & Informatica (CWI), The Netherlands; Center for Research & Technology - Thessaly, Greece; Delft University of Technology, The Netherlands; Eindhoven University of Technology, The Netherlands; Oceanscan - Marine Systems & Technology, Porto, Portugal; PSA Antwerp, Antwerp, Belgium; Océ Technologies B.V., The Netherlands; Trinité Automation B.V., The Netherlands
Funding: FP7, European Commission
KIROS Research Center for Intelligent Systems and Networks (Infrastructure Strategic Project)
Cooperating Organizations: Politechnico di Milano, Italy; ETH - University of Arizona, U.S.A.; CISE - Boston University, U.S.A.
Funding: RPF, Cyprus
WaterAlert: Innovative System for Intelligent Online Monitoring of Potable Water Quality at Consumer Sites
Cooperating Organizations: P. G. Solvenet Services Ltd, Cyprus; Frederick Research Center – Frederick University, Cyprus; Signalgenerix Ltd, Cyprus
Funding: RPF, Cyprus
FireAlert: Obstacle Detection System under Power Transmission Lines
Cooperating Organization: Signalgenerix Ltd, Cyprus
Funding: RPF, Cyprus
ARTEMIS II: Fault tolerant detection, localization and tracking of multiple events using Wireless Sensor Networks
Funding: RPF, Cyprus
Localization for next generation wireless communication networks  
Cooperating Organizations: Institute of Communications and Computer systems (ICCS), Athens; SignalGenerix, Cyprus  
Funding: RPF, Cyprus

Environmental Monitoring Using Sensor Networks with Stationary and Mobile Nodes  
Cooperating Organizations: National Technical University, Athens; Department Water Works, Cyprus  
Funding: RPF, Cyprus

Infrastructure Grant: Wireless Sensor Networking Laboratory  
Cooperating Organizations: Signalgenerix Ltd, Cyprus; Research and Education Society in Information Technology, Greece  
Funding: RPF, Cyprus

Control System for Quality Control and Safety in SPAs  
Cooperating Organizations: Signalgenerix Ltd, Cyprus; Tavelis Fitness Centers Consultancy & Management Ltd, Cyprus  
Funding: RPF, Cyprus

Infrastructure Grant: New Generation Research Network IPv6  
Cooperating Organizations: Cyprus College, Cyprus; Netway, Cyprus  
Funding: RPF, Cyprus

Security Architecture Design in Sensor Networks Decentralized Adaptive Control of Distributed Systems Using Neural Networks  
Cooperating Organizations: University of Trieste, Italy; Hyperion Systems Engineering Ltd., Cyprus  
Funding: RPF, Cyprus

Health Monitoring of the Operation of Drinking Water Distribution Systems Using Sensor Networks  
Cooperating Organizations: Department of Water Works, Cyprus; Aristotle University of Thessaloniki, Greece  
Funding: RPF, Cyprus

Intelligent Operational Control and Security in Drinking Water Distribution Networks  
Cooperating Organizations: Department of Water Works, Cyprus; University of Cincinnati, U.S.A.; Limassol Water Board, Cyprus; Aristotle University of Thessaloniki, Greece  
Funding: RPF, Cyprus

**PUBLICATIONS**

**CHAPTERS IN BOOKS**


**SELECTED JOURNAL PUBLICATIONS**


**DISTINGUISHED PUBLICATIONS**


CONSTANTINOS PITRIS  ASSOCIATE PROFESSOR

TEL.: 22892297, FAX: 22892260, E-mail: cpitris@ucy.ac.cy

STUDIES
University of Texas at Austin, U.S.A., B.Sc. in Electrical Engineering, 1993
University of Texas at Austin, U.S.A., M.S. in Electrical Engineering, 1995
Massachusetts Institute of Technology, U.S.A., Ph.D. in Medical and Electrical Engineering, 2000
Harvard Medical School, U.S.A., M.D. (medicine), 2002

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Institute of Electrical and Electronic Engineers (IEEE) • Optical Society of America (OSA)

RESEARCH INTERESTS
Medical diagnostics; Biomedical Optics; Raman Spectroscopy; Optical Coherence Tomography; Bioinspired classification systems

EXTERNAL RESEARCH PROGRAMMES
KILOS Research Center for Intelligent Systems and Networks
Cooperating Organization: Imperial College, London, U.K.
Funding: RPF, Cyprus
Next Generation Hybrid Optical-Wireless Communications Laboratory
Funding: RPF, Cyprus
Novel Technology Development for Super-Resolution Optical Coherence Tomography
Cooperating Organizations: National Technical University of Athens, Greece; Nicosia General Hospital, Cyprus
Funding: RPF, Cyprus
Multipotent Theranostic Metal-Based Scaffold for Molecular Targeting of Colorectal Cancer
Cooperating Organizations: Democritus University of Thrace, Greece; University Pierre-Marie Curie, France; EPOS-Iasis Research and Development Ltd, Cyprus
Funding: RPF, Cyprus

PATENTS
PUBLICATIONS

CHAPTERS IN BOOKS


SELECTED JOURNAL PUBLICATIONS


SELECTED CONFERENCE PROCEEDINGS


**DISTINGUISHED PUBLICATIONS**


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**MARIOS M. POLYCARPOU PROFESSOR**

Director of the KIOS Research Center of Intelligent Systems and Networks  
TEL.: 22892252, FAX: 22892260, E-mail: mpolycar@ucy.ac.cy

**STUDIES**

Rice University, U.S.A., B.A. in Computer Science, 1987  
Rice University, U.S.A., B.Sc. in Electrical Engineering, 1987  
University of Southern California, U.S.A., M.Sc. in Electrical Engineering, 1989  
University of Southern California, U.S.A., Ph.D. in Electrical Engineering, 1992

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**

IEEE Computational Intelligence Society (President)

**RESEARCH INTERESTS**

The focal areas of research are intelligent systems and control; fault diagnosis and adaptive systems; computational intelligence and neural networks; cooperative control and distributed agents; monitoring and control of large-scale and safety-critical systems

**EDITORIAL BOARDS**

EXTERNAL RESEARCH PROGRAMMES

FAULT-ADAPTIVE: Fault-Adaptive Monitoring and Control of Complex Distributed Dynamical Systems
Funding: European Research Council, ERC Advanced Grant, & European Commission, Europe

SmarTap: Real-Time Monitoring System for Water Quality
Funding Agency: European Research Council, ERC Proof of Concept Grant, & European Commission, Europe

iSense: Making Sense of Nonsense (Coordinator of the project)
Cooperating Organizations: Politecnico Di Milano, Italy; The University of Birmingham, U.K.; STmicroelectronics SRL, Italy; Universitat Politecnica De Catalunya, Spain
Funding Agency: European Commission FP7-ICT

EFFINET: Efficient Integrated Real-time Monitoring and Control of Drinking Water Networks
Cooperating Organizations: nine organizations from Spain, Italy, Germany, and Cyprus.
Funding Agency: European Commission FP7-ICT

COncORDE: Development of Coordination Mechanisms during Different Kinds of Emergencies
Cooperating Organizations: fourteen organizations from U.K., Greece, Portugal, Cyprus, Turkey, The Netherlands, Norway, Finland and Belgium
Funding Agency: European Commission FP7-SEC

FACIES: Online Identification of Failure and Attack on Interdependent Critical Infrastructures
Cooperating Organizations: University Campus Bio-Medico of Rome, Italy; University of Malaga, Spain; RadioLabs, Italy
Funding Agency: European Commission HOME/2011/CIPS/AG, Europe

CIPRNet: Critical Infrastructure Preparedness and Resilience Research Network
Cooperating Organizations: Fraunhofer, Germany; ENEA, Italy; TNO, The Netherlands; CEA, France; JRC, European Commission; Deltares, The Netherlands; International Union of Railways, France; ACRIS GmbH, Switzerland; University of Technology and Life Sciences in Bydgoszcz, Poland; University Campus Bio-Medico of Rome, Italy; University of British Columbia, Canada
Funding Agency: European Commission SEC-2012.7.4-2, Europe

C4C: Control for Coordination of Distributed Systems
Cooperating Organizations: Stichting Centrum Voor Wiskunde En Informatica, The Netherlands; Universitied Gent, Belgium; PSA Antwerp NV, Belgium; Institute for Research and Technology, Thessalia, Greece; Universita Degli Studi Di Verona, Italy; Technische Universiteit Delft, The Netherlands; Trinite Automatisering B.V., The Netherlands; Technische Universiteit Eindhoven, The Netherlands; OCE Technologies B.V., The Netherlands; Faculdade De Engenharia Da Universidade Do Porto, Portugal; Oceanscan - Marine Systems & Technology LDA, Portugal; Universidade Do Porto, Portugal
Funding Agency: European Commission FP7-ICT
IntelliCIS: Intelligent Monitoring, Control and Security of Critical Infrastructure Systems
Funding: European Science Foundation

KIOS-STRATEGIC: KIOS Research Center of Excellence for Intelligent Systems and Networks
Cooperating Organizations: Politecnico di Milano - Dept. of Electronics and Information, Italy; ETH Zurich - Dept. of Information Technology and Electrical Engineering, Switzerland; Arizona State University - SenSIP Research Center, U.S.A.; Boston University - Center for Information and Systems Engineering (CISE), U.S.A.
Funding Agency: RPF, Cyprus

CAN: Applied Neuroscience and Neurobehavioral Research Center
Cooperating Organization: Ayios Therissos Medical Diagnostic Center, Cyprus; Department of Psychology - University of Crete, Greece; Center for Clinical Neurosciences - University of Texas Health Sciences Center, Houston, Texas, U.S.A.; Cyprus Institute of Neurology and Genetics, Cyprus
Funding Agency: RPF, Cyprus

Model Based Investigation of Optimal Cancer Chemotherapy
Cooperating Organizations: University of Cambridge, U.K.; Catholic University of Valparaiso, Chile; Hellenic Cooperative Oncology Group (HeCOG), Greece
Funding Agency: RPF, Cyprus

Artemis-II: Fault tolerant detection, localization and tracking of multiple events using Wireless Sensor Networks
Funding: RPF, Cyprus

Anaesthesia: Monitoring of Awareness During Anaesthesia
Cooperating Organization: Nicosia General Hospital, Cyprus
Funding: RPF, Cyprus

ARMONIA 2: Cooperative Control and Fault Diagnosis in Distributed Nonlinear Dynamical Systems: An Adaptive Approximation Approach
Cooperating Organizations: Automation Lab - University of Trieste, Italy; Hyperion Systems Engineering Ltd, Cyprus
Funding: RPF, Cyprus

PUBLICATIONS

BOOKS


**CHAPTERS IN BOOKS**


**SELECTED JOURNAL PUBLICATIONS**


DISTINGUISHED PUBLICATIONS

THEOCARIS THEOCARIDES ASSISTANT PROFESSOR
TEL.: 22892259, FAX: 22892260, E-mail: ttheocarides@ucy.ac.cy

STUDIES
Pennsylvania State University, U.S.A., B.Sc. in Computer Engineering (Minor in Mathematics), 2002
Pennsylvania State University, U.S.A., Ph.D. in Computer Science and Engineering, 2005

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Institute of Electronics and Electrical Engineers (IEEE), International (Senior Member) • IEEE Computer Society, International • Association for Computer Machinery, International • HIPEAC Network of Excellence, Europe

RESEARCH INTERESTS
Domain-Specific and Application-Specific Integrated Circuits; Evolutionary Hardware Design; Hardware Acceleration of Computer Vision and Image Processing; Hardware Acceleration of Bioinformatics and Biomedics; Intelligent Embedded Systems and Robotics

EDITORIAL BOARDS
INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Reliable Cyber-Physical Systems, Young Researchers Programme Scholarship, Agathoklis Papadopoulos

EXTERNAL RESEARCH PROGRAMMES
RUNNER: Reconfigurable Ultra-autonomous Novel Robots
Cooperating organizations: Algosystems S.A., Greece; SignalGeneriX, Cyprus; Aldebaran Robotics, FRANCE; Ingenieria de Sistemas Intensivos en Software, S.L., Spain; MEEQ AB (publ), Sweeden; Telecommunication Systems Institute/Technical University of Crete, Greece; Universidad Politecnica de Madrid - Mälardalen University, Spain
Funding: EUROSTARS, FP7, EU

ASCLEPIUS: Accelerating Bioinformatics and Biomedical Applications via Hybrid Massively Parallel Reconfigurable Systems
Funding: RPF, Cyprus

KIOS Research Center for Intelligent Systems and Networks
Funding: RPF, Cyprus
Designing Reliable Next Generation Many Core Architectures
Funding: RPF, Cyprus

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andreas Alexandrou</td>
<td>Professor</td>
</tr>
<tr>
<td>Michalis Averkiou</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Ioannis Giapintzakis</td>
<td>Professor</td>
</tr>
<tr>
<td>Dimokratis G. E. Grigoriadis</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Stavros C. Kassinos</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Theodora Krasia-Christoforou</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Andreas Kyprianou</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Theodora V. Kyratsi</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Loucas S. Louca</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Claus G. Rebholz</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Triantafyllos Stylianopoulos</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Matthew Zervos</td>
<td>Associate Professor</td>
</tr>
</tbody>
</table>
The Department of Mechanical and Manufacturing Engineering (MME) at the University of Cyprus offers innovative programs of study, both at the undergraduate (B.Sc.) and graduate (M.Sc. and PhD) levels, that are constantly evolving to meet the needs of mechanical engineers in the 21st century. Our graduates are the mechanical engineers who create, shape and implement technologies in many diverse areas.

MME was established in 2003, grew rapidly between 2003 and 2007, and then continued to grow steadily through 2010. During the period 2011-2014, when the country was in the grip of a severe financial crisis, the Department succeeded in maintaining its research momentum, and even showed an increase in enrollment at both the undergraduate and graduate level. During this period, a total of 197 undergraduate degrees, 34 M.Sc. degrees and 11 Ph.D. degrees were awarded, while 22 post-doctoral research fellows were employed in research projects managed by the faculty members of Department.

Under the stewardship of faculty members and the help of dedicated support staff and graduate students, the department has worked to develop undergraduate and graduate teaching programs that provide rigorous training and impart the intellectual adventure of mechanical engineering to new generations.

Research in MME is presently organized into the following areas of concentration—Computational Mechanics [including Thermo-Fluids, Turbulent and Plasma Flow, Aerodynamics, Haemodynamics and Respiratory Fluid Dynamics; Nanofluidics, Atmospheric Dispersion, Hydrodynamic Modelling of Fresh Water Reservoirs, and Semi-Solid Metals Processing], Biomedical Engineering [including Imaging Techniques (Ultrasound and MRI), Cardiac Mechanics, Tissue Engineering Scaffolds, and Haptics], Vibrations, System Dynamics and Materials Science and Engineering [including super-hard coatings, powder processing techniques, polymers, (nano)composites, thermoelectrics, magnetic materials, semiconductor nanowires for photovoltaic devices, thin film deposition by CVD, sputtering and laser ablation].

The Department has been very successful in attracting research funding from sources such as the European Commission, third countries (e.g. the United States), and the Cyprus Research Promotion Foundation (RPF). In the period 2011 through 2014, faculty members in MME coordinated or participated in research projects with a total funding of about 8 million euros.
During this period, the Department maintained active research collaborations with many highly recognized organizations and universities, including: Cambridge University and University of Oxford - UK; RWTH – Aachen; ETH - Zurich; University of Leuven -Belgium; Leibniz Institute for Solid State and Materials Research – Dresden, Germany; University of Groningen - Holland; Stanford University, Massachusetts Institute of Technology, SUNY-Stony Brook, Northeastern University and University of Illinois at Urbana-Champaign - USA; Robert Bosch GmbH - Stuttgart; the Center for Excellence in Biomedical Computing and the Norwegian Defense Research Establishment (FFI) – Norway; Philips Medical Systems - USA.

Ioannis Giapintzakis,
Professor, Department Chair
ANDREAS ALEXANDROU PROFESSOR

TEL.: 22892256, FAX: 22895081, E-mail: andalexa@ucy.ac.cy

STUDIES

American University of Beirut, Lebanon, B.Sc. in Mechanical Engineering, 1982
University of Michigan, U.S.A., M.Sc. in Mechanical Engineering, 1983
University of Michigan, U.S.A., M.Sc. in Civil Engineering, 1985
University of Michigan, U.S.A., Ph.D. in Mechanical Engineering, 1986

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

Technical Chamber Cyprus, Cyprus; Hellenic Society of Rheology, Greece

RESEARCH INTERESTS

Semisolid metal processing; Mathematical modeling and computational simulations of flows of thixotropic/viscoplastic fluids; Computational rheology; Distributed Power Generation Systems; Conventional and renewable energy systems.

EDITORIAL BOARDS


PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


**DISTINGUISHED PUBLICATIONS**


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**MICHALIS AVERKIOU ASSOCIATE PROFESSOR**

TEL.: 22-892255, FAX: 22-895389, E-mail: maverk@ucy.ac.cy

**STUDIES**

University of Texas at Austin, U.S.A., Ph.D. in Mechanical Engineering, 1994
University of Texas at Austin, U.S.A., M.S. in Mechanical Engineering, 1989
University of Texas at Austin, U.S.A., B.S. in Mechanical Engineering, 1987

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**


**RESEARCH INTERESTS**

Medical ultrasound imaging; Ultrasound-enhanced drug delivery; Cancer chemotherapy monitoring with ultrasound contrast agents; Imaging of carotid plaque neovascularization; Sonoporation-Sonothrombolysis

**EDITORIAL BOARDS**

*International Journal of Medical Engineering and Informatics* (Board Member), U.K., Interscience Enterprises

**EXTERNAL RESEARCH PROGRAMMES**

SONODRUGS Image-Controlled Ultrasound-Induced Drug Delivery
Cooperating Organizations: Philips Research Europe; Erasmus Medical Center, The Netherlands; University of Munster, Germany; Ghent University, Belgium; University of London School of Pharmacy, U.K.; University of Tours, France
Funding: European Commission /FP7
Ygeia/0506/06, VASORUM, Imaging and quantification of the perfusion of atherosclerotic carotid plaques
Cooperating Organizations: Cyprus Cardiovascular Disease Educational and Research Trust, Cyprus; University of Heidelberg, Germany; American Heart Institute, Cyprus
Funding: RPF Cyprus
DIDAKTOR/0311/78, Evaluation of donor organ viability preserved by machine perfusion with contrast enhanced ultrasound
Cooperating Organizations: Imperial College, U.K.; MIT University, U.S.A.
Funding: RPF Cyprus

**PUBLICATIONS**

**CHAPTERS IN BOOKS**


**SELECTED JOURNAL PUBLICATIONS**


**DISTINGUISHED PUBLICATIONS**


---

**IOANNIS GIAPINTZAKIS**  PROFESSOR

TEL.: 22892283, FAX: 22895381, E-mail: giapintz@ucy.ac.cy

**STUDIES**

Northern Illinois University, DeKalb, Illinois, U.S.A., B.Sc. in Physics and Minor in Mathematics, 1985


University of Illinois, Urbana-Champaign, Illinois, U.S.A., Ph.D. in Materials Science and Engineering, 1992

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**

American Physical Society, U.S.A. • European Materials Research Society, France • Materials Research Society, U.S.A.

**RESEARCH INTERESTS**

Resistive switching phenomena in epitaxial thin films of lithiated alkali metal oxides for non-volatile memory applications; Thermoelectricity in complex transition metal oxides,
intermetallic alloys and (nano)composites (bulk and thin film structures) for solid-state cooling and power generation applications; Thermal transport in epitaxial thin films of quasi-1D quantum magnets for thermal management applications (heat channeling); Interface effects in oxide multilayers for applications in spintronics; Growth of epitaxial thin films and nanostructures with ultrafast pulsed lasers.

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)

Atomic Engineering of Non-Polar Oxide Heterostructures: The case of semi-Dirac-point in multilayer TiO2/VO2 nanostructures - (HETEROXIDES) - Medium size research project

EXTERNAL RESEARCH PROGRAMMES

THERMOFILMS: Thin-film composite materials with enhanced thermoelectric properties, Upgrade of Existing Infrastructure
Cooperating organization: Aristotle University Of Thessaloniki, Greece.
Funding: RPF, Cyprus

NANOMATERIALS: Research Unit for nanostructured materials systems
Cooperating organizations: Strategic Infrastructure Project CUT, Cyprus; Harvard University, U.S.A.; Aristotle University Of Thessaloniki, Greece.
Funding: RPF, Cyprus

Study of new phenomena in atomically engineered oxide hetero-interfaces
Cooperating organizations: Young Researchers of Cyprus, Cyprus; Aristotle University of Thessaloniki, Greece.
Funding: RPF, Cyprus

Cooperating organization: National Institute for Lasers, Plasma and Radiation Physics, Magurele-Bucharest, Romania.
Funding: RPF, Cyprus

KAPPAMAG: Novel magnetic-mode of thermal transport
Cooperating organization: Aristotle University of Thessaloniki, Greece
Funding: RPF, Cyprus

PUBLICATIONS

SELECTED CONFERENCE PROCEEDINGS

Papageorgiou, Ch., Athanasopoulos, G. I., Kyratsi, Th., & Giapintzakis, J. (2012) Influence of processing conditions on the thermoelectric properties of La1-xSrxCoxO3 (x=0, 0.05). AIP Conf. Proc. 1449 (pp. 323-326). Thessaloniki, Greece.

DISTINGUISHED PUBLICATIONS

DIMOKRATIS G.E. GRIGORIADIS ASSISTANT PROFESSOR
TEL.: 22894453, FAX: 22892225, E-mail: grigoria@ucy.ac.cy

STUDIES
UMIST, U.K., B.Sc. in Mechanical Engineering, 1995
The Von Karman Institute, Belgium, M.A. in Environmental Fluid Mechanics, 1996
AUTH, NCSR Demokritos, Greece, Ph.D. in Numerical Simulations of Turbulent Flows, 2003

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
ERCOFTAC (European Research Community of Flow Turbulence and Combustion), Europe

RESEARCH INTERESTS
CFD; Numerical Simulations of Turbulent Flows; Heat Transfer & Storage; Multiphase flows; Environmental Flows/Dispersion

EXTERNAL RESEARCH PROGRAMMES
Cooperating organizations: University of Patras (UPAT), Greece; Université Catholique de Louvain (UCL), Belgium; Instituto Superior Técnico (IST), Portugal; Università degli Studi di Trieste (UNITS), Italy; Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland; Laboratório Nacional de Engenharia Civil (LNEC), Portugal; Fugro GeoConsulting (FU), Belgium; Idrostudì Srl (IDR), Patra, Greece; Stucky Ltd (ST), Switzerland
Funding: Marie Curie Initial Training Network (ITN), No. PITN_GA-20 13-607394.
PUBLICATIONS

CHAPTERS IN BOOKS

SELECTED JOURNAL PUBLICATIONS
STAVROS C. KASSINOS  ASSOCIATE PROFESSOR

TEL.: 22892296, FAX: 22892254, E-mail: kassinos@ucy.ac.cy

STUDIES
University of Texas Austin, U.S.A., B.Sc. in Mechanical Engineering, 1986
Stanford University, California, U.S.A., M.Sc. in Mechanical Engineering, 1989
Stanford University, California, U.S.A., Ph.D. in Mechanical Engineering, 1995

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
American Physical Society (ASP), U.S.A. • American Chemical Society (ACS), U.S.A. • European Physical Society (EPS), Europe • European Respiratory Society (ERS), Europe • European Federation for Pharmaceutical Sciences (EUFPS), Europe • International Society for Aerosols in Medicine (ISAM), International • European Research Community on Flow Turbulence and Combustion (ERCOFTAC), Europe (Member of Steering Committee for Special Interest Group 35 - Multipoint Turbulence Structure and Modeling) • European Aeronautics Science Network (EASN) - National Focal Point, Europe • COST, Europe (Member of Management Committee of Action MP1305) • “Flowing Matter” COST, Europe (Management Committee Chair of Action MP1404 “Simlnahle”)

RESEARCH INTERESTS
Controlled Thermonuclear Fusion (Fusion Transnational Unit for Research in Cyprus FUTURE - CY, EuroFUSION Consortium); Biomedical flows (airflow and drug deposition in the human lungs and blood flow in aneurisms); Simulation and Modeling of Turbulent Fluid Flow (applications to aerodynamics and energy systems); Water Related issues (evaporation and sedimentation from fresh water reservoirs and saltwater intrusion in coastal aquifers); CFD for Organic Rankine Cycles (ORC).

EDITORIAL BOARDS

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Direct Numerical Simulation and Structure--Based Modeling of Atmospheric Aerosol Dispersion
EXTERNAL RESEARCH PROGRAMMES
HEXACOMM (Marie Curie ITN) “Human EXposure to Aerosol COntaminants in Modern Microenvironments”
Cooperating organizations: Technical University of Crete, Greece; Norwegian Institute of Air Research, Norway; University of Birmingham, U.K.;
Funding: European Commission
Fusion Transnational Unit for Research in Cyprus
Cooperating organization: Hellenic Fusion Association (Research Unit Head), Greece
Funding: European Commission

PUBLICATIONS
SELECTED JOURNAL PUBLICATIONS

DISTINGUISHED PUBLICATIONS


**THEODORA KRASIA-CHRISTOFOROU** ASSOCIATE PROFESSOR

TEL.: 22892288, FAX: 22895081, E-mail: krasia@ucy.ac.cy

**STUDIES**

University of Cyprus, Cyprus, B.Sc. in Chemistry, 1999
Imperial College of Science, Technology and Medicine, University of London, U.K., M.Sc. in Chemical Research, 2000
Max-Planck Institute of Colloids and Interfaces, University of Potsdam, Germany, Dr.Rer.Nat. in Physical Chemistry, 2003

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**

American Chemical Society, U.S.A. • Royal Society of Chemistry, U.K. • Pancyprian Union of Chemists, Cyprus (Member of the Newsletter publication team)

**RESEARCH INTERESTS**

Polymer synthesis and characterization; polymer-based nanohybrids and nanocomposites; electrospun polymer-based materials; applications of polymers; self-assembly of polymers.

**INTERNAL RESEARCH PROGRAMMES (University of Cyprus)**

University of Cyprus Grant “Post-doctoral researchers”

**EXTERNAL RESEARCH PROGRAMMES**

Novel, multi-responsive cross-linked Films with controlled architectures: Synthesis, characterisation and application in icon restoration
Cooperating Organizations: Laboratory of restoration of ancient icons, manuscripts and paintings, the Holy Archbishopric of Cyprus, Cyprus; Romanian Academy - Timisoara branch – Center for Fundamental and Advanced Technical Research, Timisoara, Romania.
Funding: RPF, Cyprus

Mini-supercapacitors technology, based on hybrid CNT-electroactive polymer nanostructures
Cooperating Organizations: Chalmers University of Technology, Sweden; Smoltek, Sweden; Comfrac R & D Project Expert SRL, Romania; INCDIE ICPE-CA, Romania; Skeleton Technologies, Estonia.
Funding: RPF, Cyprus
Advanced nano-active composites of polymers with rare metals and metal oxides for microelectronic applications at GHz domain
Cooperating Organizations: “Gheorghe Asachi” Technical University of Iasi, Romania
Funding: RPF, Cyprus and RPF Romania

Multifunctional nanoparticles for magnetic hyperthermia and indirect radiation therapy (RADIOMAG)
Cooperating organizations: institutions from several countries
Funding: COST Action TD1402, European Commission

Electrospun nano-fibres for bio-inspired composite materials and innovative industrial applications
Cooperating organizations: institutions from several countries
Funding: COST Action MP1206, European Commission

PUBLICATIONS

CHAPTERS IN BOOKS


SELECTED JOURNAL PUBLICATIONS


**DISTINGUISHED PUBLICATIONS**


ANDREAS KYPRIANOU  ASSOCIATE PROFESSOR

TEL.: 22892294, FAX: 22895081, E-mail: akyp@ucy.ac.cy

STUDIES
University of Sheffield, U.K., Ph.D. Mechanical Engineering, 2000

RESEARCH INTERESTS
Uncertainty modeling of vibrating systems; Modeling of human response to vibrations;
Multiresolution analysis for fault detection and investigation of multiscale phenomena;
Human cell mechanics

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Novel Transient Photovoltaic (PV) System Models for the Study of the Power Quality and Fault
Behaviour under Increasing Penetration Levels

EXTERNAL RESEARCH PROGRAMMES
The development and implementation of a novel online Partial Discharge condition
monitoring system for the prediction of faults in T & D cables
Cooperating organizations: Electricity Authority of Cyprus, Cyprus; High Voltage Lab -
Department of Electrical Engineering - University of Southampton, U.K.; St John's College,
Cambridge University, U.K.; Dynamics Research Group - Department of Mechanical
Engineering - University of Sheffield, U.K.

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS
cointegration for enhance SHM of structures under varying conditions – An exploratory
study. Mechanical Systems and Signal Processing, 47(S1-2), 243-262.
Mouzourides, P., Kyprianou, A., Brown, M. J., Carissimo, B., Choudhary, R., & Neophytou, M.
(2014). Searching for the distinctive signature of a city in atmospheric modelling: could the
Multi-Resolution Analysis (MRA) provide the DNA of a city? Urban Climate, 10(2), 447-475
http://authors.elsevier.com/a/1QAV97s~EVKZkH.
modulus measurements of the ex-vivo murine heart using atomic force microscopy.
International Journal of Nanotechnology, 10(12), 1064-1077.


**SELECTED CONFERENCE PROCEEDINGS**


**DISTINGUISHED PUBLICATIONS**


THEODORA KYRATSI ASSOCIATE PROFESSOR
TEL.: 22892267, FAX: 22895387, E-mail: kyratsi@ucy.ac.cy

STUDIES
Aristotle University of Thessaloniki, Greece, Degree in Physics, 1996
Aristotle University of Thessaloniki, Greece, M.Sc. in Physics of Materials, 1998
Aristotle University of Thessaloniki, Greece, Ph.D. in Physics, 2002

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Material Research Society (MRS), International • European Powder Metallurgy Association (EPMA), Europe • American Physical Society (APS), U.S.A. • Member of Hellenic Physical Society, Greece • European Society for Engineering Education (SEFI), Europe

RESEARCH INTERESTS
Synthesis of inorganic materials - Materials processing based on powder technology – Ball milling, consolidation techniques; Thermoelectric materials for cooling applications and power generation; Materials for CO2 capture; Nanomaterials and Nanocomposites; Materials for Energy applications

INTERNAL RESEARCH PROGRAMMES (University of Cyprus)
Fabrication of Nanomaterials for CO2 Storage based on Geological Materials from Cyprus

EXTERNAL RESEARCH PROGRAMMES
Nanostructured energy-harvesting thermoelectrics based on Mg2Si ThermoMag
Cooperating Organizations: European Space Agency, The Netherlands; Termo-Gen AB, Sweden; Jaguar Land Rover, U.K.; Centro Ricerche FIAT, Italy; Volvo AB (including Volvo Technology, Volvo Powertrain and Volvo Aero Corporation) Luc Aixala Sweden/France;EADS (including Airbus, Astrium and Eurocopter), Germany; Babrow Thermoelectric Consultants, U.K.; AGH Krakow, Poland; University of Cardiff, U.K.; Ecole Nationale Supérieure des Mines de Nancy, France; Université de Caen, France; Aristotle University of Thessaloniki, Greece; Fraunhofer IPM, Germany; Ioffe Institute St. Petersburg, Russia
Funding: FP7 (contract NMP4-SL-2011-263207) - European Commission, European Space Agency, the individual partner organizations
High Temperature Nanocomposite Materials for Thermoelectric Power Generation (THERMO-PRESS), ANAVATHMISI
Cooperating Organizations: Aristotle University of Thessaloniki, Greece; University of Crete, Greece
Funding: RPF, Cyprus
Optimized Thermoelectric Nanocomposites (NANO-THERM)
Cooperating Organizations: Northwestern University, Illinois, U.S.A.; Aristotle University of Thessaloniki, Greece
Funding: RPF, Cyprus
Silicide Compounds as High Temperature Thermoelectric Materials (SI-THERM)
Cooperating Organization: Aristotle University of Thessaloniki, Greece
Funding: RPF, Cyprus.

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS

Khan, A. U., Vlachos, N., & Kyratsi, Th. (2013). High Thermoelectric Figure of Merit of Mg$_2$Si$_{0.55}$Sn$_{0.4}$Ge$_{0.05}$ Materials doped with Bi and Sb. *Scripta Materialia*, 69, 606-9.

LOUCAS S. LOUCAS ASSOCIATE PROFESSOR

TEL.: 22892279, FAX: 22895391, E-mail: Islouca@ucy.ac.cy

STUDIES

National Technical University of Athens, Greece, Diploma in Mechanical Engineering, 1992
University of Michigan, U.S.A., MSE in Mechanical Engineering, 1994
University of Michigan, U.S.A., Ph.D. in Mechanical Engineering, 1998

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

American Society of Mechanical Engineers, U.S.A. (Technical Committee co-chair) • Institute of Electrical and Electronics Engineers, U.S.A. • Society of Automotive Engineers, U.S.A. • Cyprus American Society of Mechanical Engineers, U.S.A. (Technical Committee co-chair) • Institute of Electrical and Electronics Engineers, U.S.A. • Society of Automotive Engineers, U.S.A. • Scientific and Technical Chamber, Cyprus (Member of Admission Subcommittee for Mechanical Engineering)
RESEARCH INTERESTS
Physical System Modeling; Modeling and Simulation; Haptic Interfaces; Rehabilitation Robotics; Automotive Engineering

EDITORIAL BOARDS

PUBLICATIONS

CHAPTERS IN BOOKS

SELECTED JOURNAL PUBLICATIONS

SELECTED CONFERENCE PROCEEDINGS
Louca, L. S. (2012). Bond Graph Based Modal Decomposition of Systems with Non-
proportional Damping. *Proceedings of the 10th International Conference on Bond Graph
Modeling and Simulation ICGBM 2012* (pp. 20-30). Genoa, Italy.

**DISTINGUISHED PUBLICATIONS**

Louca, L. S. (2014). Power Conserving Bond Graph Based Modal Representations and Model
Reduction of Lumped Parameter Systems. *Journal of Dynamic Systems Measurement and

*Journal of Computational Science: Special Issue on Multidisciplinary Modeling and Simulation*,

Reduction. In W. Borutzky (Ed.), *Bond Graph Modelling of Engineering Systems: Theory,
Applications and Software Support* (pp. 53-103). New York, NY: Springer Science & Business
Media.

---

**CLAUS REBHOLZ  ASSOCIATE PROFESSOR**

TEL.: 22892196, FAX: 22895385, E-mail: claus@ucy.ac.cy

**STUDIES**

University of Applied Sciences, Furtwangen, Germany, B.Sc. in Materials and Surface
Engineering, 1993

University of Hull, U.K., M.Sc. in Engineering Design and Manufacture, 1995

University of Hull, U.K., Ph.D. in Engineering Design and Manufacture, 2000

**PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS**


**RESEARCH INTERESTS**

Thin Films and Coatings; Surface Engineering Technologies; Laser Materials Processing;
Nanotechnology; Nanoscale Manufacturing Technologies

**EDITORIAL BOARDS**

*Journal of Surface and Coatings Technology* (Editor, Guest Editor, Editorial Board Member),
The Netherlands, Elsevier • *Journal of Thin Solid Films* (Guest Editor), The Netherlands, Elsevier.
EXTERNAL RESEARCH PROGRAMMES

Ti-C Intermediate Layer and Benchmark RF-Plasma DLC Coating Process Development
Cooperating Organizations: University of Surrey, U.K.; University of Illinois at Urbana-Champaign, U.S.A.
Funding: Robert Bosch GmbH, Germany
PI Nano-Actuators and Nano-Sensors for Medical Applications
Cooperating Organizations: University of Orleans, France; Carl von Ossietzky University Oldenburg, Germany; Pius Hospital, Oldenburg, Germany; Biomedical Research Foundation; Greece; Zenon S. A., Greece; ETH Zurich, Switzerland; Femto Tools, Switzerland
Funding: EC FP7-ICT Scheme; Co-PI

Development of a New Silicone Finger Implant
Cooperating Organizations: Schulthess Clinic, Zurich, Switzerland; Brown Medical School and Rhode Island Hospital, U.S.A.; KLS Martin Group, Germany
Funding: Stuckenbrock Medizintechnik GmbH, Germany; PI

Carbon-based nanostructures for hydrogen storage
Cooperating Organizations: Khalifa University of Science - Technology & Research, U.A.E.; Demokritos National Center of Scientific Research, Greece
Funding: FP7 (Grant Agreement Number 284522); PI

Vibration Assisted Compaction of Rapidly Solidified Alloy Particles
Cooperating Organization: Northeastern University, U.S.A.
Funding: RPF PENEK, Cyprus; PI

Reactive Powder-Compacts Formed by Ultrasonic Sintering
Cooperating Organization: Northeastern University, U.S.A.
Funding: RPF, Cyprus; PI

PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


**DISTINGUISHED PUBLICATIONS**


STYLIANOPoulos TRIANTAFYLLOS  ASSISTANT PROFESSOR

TEL.: 22892238, FAX: 22895081, E-mail: tstylian@ucy.ac.cy

STUDIES

National Technical University of Athens, Greece, Diploma in Chemical Engineering, 2003
University of Minnesota, U.S.A., Ph.D. in Chemical Engineering, 2008

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS

European Society of Biomechanics, Europe • European Foundation for Clinical Nanomedicine, Switzerland • American Society of Mechanical Engineers, U.S.A. • Biomedical Engineering Society, U.S.A. • Hellenic Bioscientific Association, U.S.A. • Greek Association of Computational Mechanics • Technical Chamber of Greece, Greece

RESEARCH INTERESTS

Mechanics (solid and fluid) and drug delivery of solid tumors; The evolution of fluid and solid stresses in tumors and how these stresses correlate to tumors’ patho-physiology; Strategies to improve delivery of chemo- and nano-therapeutics to tumors by either modifying the tumor micro-environment or developing rules for the optimal design of therapeutic agents; Study of the mechanical behavior and transport properties of fibrous materials such as for tissue engineering applications and the controlled-release of drugs

EXTERNAL RESEARCH PROGRAMMES

Re-engineering the tumor microenvironment to alleviate mechanical stresses and improve chemotherapy
Funding: European Research Council (ERC) Starting Grant (ERC-2013-StG-336839 ReEngineeringCancer)
Optimizing the Delivery of Nanomedicine to Solid Tumors
Funding: Marie-Curie International Reintegration Grant (PIRG08-GA-2010-276894 Cancer Nanomedicine).

PATENTS


PUBLICATIONS

SELECTED JOURNAL PUBLICATIONS


**DISTINGUISHED PUBLICATIONS**


MATTHEW ZERVOS  ASSOCIATE PROFESSOR
TEL.: 22894509, FAX: 22895081, E-mail: zervos@ucy.ac.cy

STUDIES
University of Surrey, U.K., B.Sc., 1991
UMIST, U.K., M.Sc., 1992
University of Wales, Cardiff, U.K., Ph.D., 1998

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANIZATIONS
Institute of Physics, U.K.; Institute of Electrical and Electronic Engineers – IET, U.K.

RESEARCH INTERESTS
Synthesis, structural, optical and electrical properties of semiconductor nanowires in conjunction with theory related to thermoelectric devices, transparent solar cells and supercapacitors.

EXTERNAL RESEARCH PROGRAMMES
Mini supercapacitor technology based on hybrid CNT-electroactive polymer nanostructures
Cooperating organization: Chalmers University of Technology, Sweden.
Funding: FP7 ERANET, European Commission

PUBLICATIONS

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DOCTORAL TITLES AWARDED

ABBREVIATIONS

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## DOCTORAL TITLES AWARDED

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<th>Doctoral Title</th>
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<td></td>
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<tr>
<td>Achilleos Antigoni</td>
<td>CEE</td>
<td>Heterogeneous photocatalysis, sonolysis and sonophotocatalysis for the removal of selected pharmaceutical compounds from aqueous matrices</td>
</tr>
<tr>
<td>Demetriou Maria G.</td>
<td>MME</td>
<td>Organic-inorganic hybrid materials combining metal nanoparticles and functional amphiphilic diblock copolymers. Synthesis, characterization and experimental investigation of their nonlinear optical properties</td>
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<tr>
<td>Eliades Demetrios G.</td>
<td>ECE</td>
<td>Fault diagnosis and security monitoring in water distribution systems</td>
</tr>
<tr>
<td>Lambrou Theofanis P.</td>
<td>ECE</td>
<td>Collaborative area monitoring using wireless sensor networks with stationary and mobile nodes</td>
</tr>
<tr>
<td>Polydorides Savvas</td>
<td>ECE</td>
<td>Application of an efficient and accurate generalized Born model to high throughput</td>
</tr>
<tr>
<td>Sarris Ernestos N.</td>
<td>CEE</td>
<td>Modelling of fluid driven fractures in cohesive poroelastoplastic formations</td>
</tr>
<tr>
<td>Xydas Evagoras G.</td>
<td>MME</td>
<td>A haptic-interface based system for the upper-limb rehabilitation of people with multiple sclerosis</td>
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<tr>
<td><strong>2012</strong></td>
<td></td>
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<tr>
<td>Bousi Evgenia K.</td>
<td>ECE</td>
<td>Novel techniques for resolution improvement in optical coherence tomography</td>
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<tr>
<td>Ciornei Irina</td>
<td>ECE</td>
<td>Novel hybrid optimization methods for the solution of the economic dispatch of generation in power systems</td>
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<td>Christou Kyriakos A.</td>
<td>ECE</td>
<td>Path delay fault testing for digital VLSI circuits using specialized binary decision diagrams</td>
</tr>
<tr>
<td>Evagorou Demetres A.</td>
<td>ECE</td>
<td>On-line partial discharge source identification in medium and high voltage cable networks</td>
</tr>
<tr>
<td>Kanaris Nicolas A.</td>
<td>MME</td>
<td>Three-dimensional direct numerical simulations of hydrodynamic and magnetohydrodynamic flows over an obstacle in a confined geometry</td>
</tr>
<tr>
<td>Kossivas Fotios</td>
<td>MME</td>
<td>Nematic liquid crystal film in the presence of corrosion as a novel method for corrosion sensing</td>
</tr>
<tr>
<td>Name of Graduate</td>
<td>Department</td>
<td>Doctoral Title</td>
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<tr>
<td>Kyriakides Alexandros M.</td>
<td>ECE</td>
<td>Noise-robust classification using rank order kernels</td>
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<tr>
<td>Makrides George</td>
<td>ECE</td>
<td>Performance assessment of different grid-connected PV technologies utilising real outdoor measurements</td>
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<tr>
<td>Michael Irene</td>
<td>CEE</td>
<td>Investigating the solar-driven advanced chemical oxidation of ofloxacin and trimethoprim in sewage and other aqueous matrices</td>
</tr>
<tr>
<td>Sophocleous-Lemonari Tonia</td>
<td>ARH</td>
<td>Adaptable dual control systems</td>
</tr>
<tr>
<td>Vasquez Marlen Ines</td>
<td>CEE</td>
<td>Active pharmaceutical ingredients in aqueous matrices: an integrated approach for assessing effects</td>
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<tr>
<td>2013</td>
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<tr>
<td>Achillides Zenon A.</td>
<td>ECE</td>
<td>Partial discharge modeling and associated transients along medium voltage distribution cables</td>
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<tr>
<td>Constantinou Costas K.</td>
<td>ECE</td>
<td>Heuristic multicast routing and protection algorithms for optical WDM networks with arbitrary mesh topologies</td>
</tr>
<tr>
<td>Georgiou Charalambos P.</td>
<td>CEE</td>
<td>Building Information Models for Damage Assessment, Cost Estimating, and Scheduling for Post-Earthquake Reinforced Concrete Building Rehabilitation</td>
</tr>
<tr>
<td>Hadjiafxenti Anastasia G.</td>
<td>MME</td>
<td>Synthesis of reactive structures by ball milling and ultrasonic consolidation</td>
</tr>
<tr>
<td>Ioannou Ioanna A.</td>
<td>ECE</td>
<td>Outage and ergodic capacity for a class of channels</td>
</tr>
<tr>
<td>Ioannou Lida A.</td>
<td>CEE</td>
<td>Advanced systems for the enhancement of the environmental performance of wineries - wastewater purification combining biological, advanced chemical and reverse osmosis treatment</td>
</tr>
<tr>
<td>Panayiotou Tania</td>
<td>ECE</td>
<td>Multicasting and groupcasting with physical layer constraints in metropolitan area networks with mesh topologies</td>
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<tr>
<td>Papageorgiou Chrysi M.</td>
<td>MME</td>
<td>Nanocomposite materials with enhanced thermoelectric properties</td>
</tr>
<tr>
<td>Name of Graduate</td>
<td>Department</td>
<td>Doctoral Title</td>
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<tr>
<td>Tjirkallis Andreas G.</td>
<td>MME</td>
<td>Continuous Structural Health Monitoring under varying environmental and operational conditions using wavelet transform modulus maxima decay lines similarity</td>
</tr>
<tr>
<td>Tjirkallis Andreas G.</td>
<td>MME</td>
<td>Continuous Structural Health Monitoring under varying environmental and operational conditions using wavelet transform modulus maxima decay lines similarity</td>
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<tr>
<td>2014</td>
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<tr>
<td>Angelidou Myria M.</td>
<td>ECE</td>
<td>Design of novel metal nanostructures for biological and biomedical applications</td>
</tr>
<tr>
<td>Demosthenous Panagiota</td>
<td>ECE</td>
<td>Molecular genetic investigation, epidemiology and genotype-phenotype correlation in familial microscopic hematuria</td>
</tr>
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<td>Garreau Guillaume F.</td>
<td>ECE</td>
<td>A bioinspired system for acoustic scene analysis</td>
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<tr>
<td>Illampas Rogiros Ch.</td>
<td>ECE</td>
<td>Experimental and computational investigation of the structural response adobe structures</td>
</tr>
<tr>
<td>Ioannou Maria S.</td>
<td>MME</td>
<td>Development and characterization of silicides for thermoelectric applications</td>
</tr>
<tr>
<td>Kyrkou Christos S.</td>
<td>ECE</td>
<td>Real-time hardware acceleration of object detection for intelligent embedded vision systems</td>
</tr>
<tr>
<td>Kourtellaris Christos K.</td>
<td>ECE</td>
<td>Nonanticipative information theory</td>
</tr>
<tr>
<td>Laoudias Christos I.</td>
<td>ECE</td>
<td>Localization and tracking in wireless networks for fault tolerance and device diversity</td>
</tr>
<tr>
<td>Matheou Maria E.</td>
<td>ARH</td>
<td>Kinetic hybrid structures</td>
</tr>
<tr>
<td>Mannaris Christoforos</td>
<td>MME</td>
<td>Ultrasound enhanced drug delivery: pressure and temperature activation approaches</td>
</tr>
<tr>
<td>Ttofi Christos S.</td>
<td>ECE</td>
<td>Stereo vision hardware architectures for real-time depth computation in embedded vision applications</td>
</tr>
<tr>
<td>Papadopoulos Agathoklis I.</td>
<td>ECE</td>
<td>Accelerating bioinformatics and biomedical applications via massively parallel and reconfigurable systems</td>
</tr>
<tr>
<td>Papavasileiou Georgios S.</td>
<td>CEE</td>
<td>Optimized seismic design and retrofit of collapse resistant steel-concrete composite buildings</td>
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<tr>
<td>Savva Ioanna</td>
<td>MME</td>
<td>Implementation and evaluation of an algorithm for the omni-do problem using the ensemble group communication service</td>
</tr>
<tr>
<td>Vazouras Athanasios Ch.</td>
<td>MME</td>
<td>Quantitative and qualitative assessment of occupational vibration exposure and quantification of uncertainty</td>
</tr>
</tbody>
</table>
ABBREVIATIONS

**FP6**  6th Framework Programme  
**FP7**  7th Framework Programme  
**RPF**  Research Promotion Foundation, Cyprus  
**COST**  European Co-operation in Science and Technology
ACADEMIC STAFF INDEX

Alexandrou Andreas, Professor .........................Department of Mechanical and Manufacturing Engineering .............115
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Roussis Panayiotis, Assistant Professor .......................... Department of Civil and Environmental Engineering .............. 60
Savvides Andreas, Assistant Professor .......................... Department of Architecture .......................... 29
Stratis Sokrates, Associate Professor .......................... Department of Architecture .......................... 30
Stylianopoulos Triantafyllos, Assistant Professor .......................... Department of Mechanical and Manufacturing Engineering .......................... 135
Theocharides Theocharis, Assistant Professor .......................... Department of Electrical and Computer Engineering .......................... 107
Zervos Matthew, Associate Professor .......................... Department of Mechanical and Manufacturing Engineering .......................... 137