Faculty Members

**Computer Science Division**

- Chalkiadakis Georgios, Associate Professor
- Deligiannakis Antonios, Associate Professor
- Garofalakis Minos, Professor
- Lagoudakis Michail, Associate Professor
- Mania Katerina, Associate Professor
- Petrakis Euripides, Professor
- Samoladas Vasilis, Assistant Professor

**Electronics and Computer Architecture Division**

- Balas Costas, Professor
- Bucher Matthias, Associate Professor
- Dollas Apostolos, Professor
- Kalaitzakis Kostas, Professor
- Kanellos Fotios, Associate Professor
- Koutroulis Eftichios, Associate Professor
- Stavrakakis Georgios, Professor

**Systems Division**

- Bekiaris-Lymperis Nikolaos, Assistant Professor

**Telecommunications Division**

- Bletsas Aggelos, Associate Professor
- Digalakis Vassilios, Professor - on leave
- Karystinos George, Associate Professor
- Liavas Athanasios, Professor
- Paterakis Michael, Professor
- Zervakis Michalis, Professor

**Faculty in the Sciences**

- Angelakis Dimitris, Associate Professor
- Ellinas Demosthenes, Professor
- Manoussaki Daphne, Assistant Professor
- Petrakis Minos, Associate Professor

**Emeritus Professor**

- Christodoulakis Stavros
Technical University of Crete
School of Electrical & Computer Engineering
Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Georgios Chalkiadakis
Rank: Associate Professor
Years in rank: 3.5
Division: Computer Science
Lab affiliation: Intelligent Systems

A – Teaching

- Undergraduate courses taught
  - COMP 201: Design and Development of Information Systems (mandatory)
  - COMP 517: Multi-agent Systems
  - COMP 417: Artificial Intelligence

- Graduate courses taught
  - COMP 601: Decision Making and Learning in Multiagent Worlds

- Curriculum & course development
  - Updated course material/slides for all aforementioned courses taught

B – Publications

- Publications in refereed journals

- Publications in refereed conferences

C – Awards & Distinctions

- **Best Student Paper Award** at 12th International Conference on Knowledge Science, Engineering, and Management (KSEM-2019), for paper: Extracting Hidden Preferences over Partitions in Hedonic Cooperative Games. Co-authored with students Athina Georgara, Dimitrios Troullinos

- **Invited Tutorial**: “From Game Theory to AI in Games”, at the 17th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2018), Stockholm, Sweden, July 2018. **Co-tutored with: Dr. Georgios Yannakakis**


D – Funded Projects

- Current projects:
  - Project “RESCOOP Plus”. A Horizon 2020 project accepted under the Energy Efficiency call topic EE-10-2015 – “Consumer engagement for sustainable energy”. The objective of the REScoop Plus project is to follow up on the RESCOOP20-20-20 project by making Renewable Energy Sources cooperatives in Europe go beyond their activities of producing and supplying energy, and take up energy savings for their members as a new pillar in their organisations. **Role:** coordinator for the participating ECE-TUC team. **Duration:** 2016-2019
  - Project “CO3” (“Digital Disruptive Technologies to Co-create, Co-produce and Co-manage Open Public Services along with Citizens”). A Horizon 2020 RIA project that was accepted under the “H2020-Socioeconomic and cultural transformations in the context of the fourth industrial revolution” call. **Georgios’ role:** Georgios is a member of the participating “Open Lab Athens” research team. **Duration:** 2019-2021
  - Project “gE.CO Living Lab” (“Generative European Commons Living Lab”). A Horizon 2020 CSA project that was accepted under the “H2020-Socioeconomic and cultural transformations in the context of the fourth industrial revolution” call. **Georgios’ role:** Georgios is a member of the participating “Open Lab Athens” research team. **Duration:** 2019-2021

E – Professional service

- Society Technical Committee duties
  - **Deputy Chair of the Board of Directors** of the European Association for Multi-Agent Systems (EURAMAS)

- International Workshops and Summer Schools Chair and Organizer
  - Chair of the 2019 Advanced Course on AI (ACAI-2020) Summer School, Chania, Crete, July 1-5, 2019 (ACAI-2019). **ACAI is a designated event of EurAI, the European Association for Artificial Intelligence.** ACAI-2019 also constituted the 2019 Hellenic AI Summer School (HAISS-2019), an EETN designated event. It was also endorsed and co-sponsored by the European Association for Multi-Agent Systems (EURAMAS), and the Region of Crete, among others.
  - Local Organizer of 20PoA, the Twenty Years of the Price of Anarchy workshop, Chania, Crete, July 2-5, 2019.

- Conference Senior Technical Program Committee service
  - The 18th International Conference on Autonomous Agents and Multiagent Systems, Montreal, Canada, May 2019 (AAMAS-19).

- Conference Technical Program Committee service

- Reviewing activities
  o Reviewer for the conferences I was a Program Committee member at (mentioned above)
  o Reviewer for several journals; a subset of the following:
    1. The “International Journal of Game Theory” (IJGT)
    2. The “International Game Theory Review” journal (IGTR)
    3. The “Artificial Intelligence” journal (AIJ)
    4. The “Journal of Artificial Intelligence Research” (JAIR)
    5. The “Autonomous Agents and Multi-Agent Systems” journal (JAAMAS)
    6. The “Journal of Machine Learning Research” (JMLR)
    7. The “IEEE Intelligent Systems” journal
    8. The “Artificial Intelligence Review” journal (AIRE)
   12. The “ACM Transactions on Autonomous and Adaptive Systems” journal
   13. The “Advances in Artificial Intelligence” journal
   14. The “International Journal on Artificial Intelligence Tools” (IJAIT)
   15. The “Journal of the Brazilian Computer Society”
   16. The “Energy and Buildings” journal
   17. The “Transportation Research Part C” journal
   18. The “Transactions on Intelligent Transportation Systems” journal
   19. The “Frontiers in Sustainable Cities” journal
      - review editor for the “Smart Technologies and Cities” section

G – Advising

- Active graduate students supervised
  o Ph.D. and M.Sc. students completed (supervisor)
    - Georgara Athina (M.Sc.)
    - Ntiniakou Thaleia (M.Sc.)
  o Ph.D. and M.Sc. theses in progress (supervisor)
    1. Chliaoutakis Aggelos (Ph.D.)
    2. Tripolitakis Evaggelos (Ph.D.)
    3. Kydonakis Ares (M.Sc.)
    4. Antonios Vogiatzis (M.Sc.)

- Undergraduate students supervised
  o Diploma theses (MEng level) completed (supervisor)
    1. Kechagias Georgios
    2. Mersinias Michail
    3. Troullinos Dimitrios
Technical University of Crete  
School of Electrical & Computer Engineering  
Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Antonios Deligiannakis  
Rank: Associate Professor  
Years in rank: 6  
Full-time or part-time: Full-time  
Division: Computer Science  
Lab affiliation: Distributed Multimedia Information Systems and Applications (MUSIC)

A – Teaching

- Undergraduate courses taught  
  - COMP 302: Databases (mandatory)  
  - COMP 516: Data Processing and Handling in Sensor Networks

- Graduate courses taught  
  - COMP 606: Data Processing and Handling in Sensor Networks  
    (Offered jointly with COMP 516)  
  - COMP 613: Special Issues in Database Systems

- Labs taught

- Curriculum & course development  
  - New courses / labs developed  
  - Lecture notes / slides developed  
  - Authored textbooks

B – Publications

- Publications in refereed journals  
  - Submitted: those published/appeared (see below)  
• I. Flouris, N. Giatrakos, A. Deligiannakis, M. Garofalakis: Event Analytics over Geographically Distributed Data. PVLDB.

  o Accepted:

  o Published:

  • Publications in refereed conferences
    o Submitted: those published/appeared (see below)
    o Accepted:
Published:


D – Funded Projects

- Current projects:
  - INFORE (ICT-12-2018-2020 Big Data Call. Result: Granted - Ranked 1st)

E – Professional service

- Conference Technical Program Committee service
  - SIGMOD - ACM SIGMOD/PODS Conference on Management of Data
  - VLDB - Very Large Data Bases
  - ICDE - IEEE International Conference on Data Engineering
  - EDBT - International Conference on Extending Database Technology

- Reviewing activities
  - VLDB Journal
  - IEEE Transactions on Knowledge and Data Engineering (TKDE)
  - Big Data Research (ELSEVIER)

F – Service to the School and the University

- School responsibilities
  - Undergraduate students advisor for 6th semester students

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. theses in progress (supervisor)
    - Flouris Ioannis (Ph.D.)
    - Kontaxakis Antonios (M.Sc)
    - Bitsakis Theodoros (M.Sc)
  - Ph.D. and M.Sc. Degrees completed (committee member)
    - Skoulakis Ioannis (M.Sc.)
  - Ph.D. and M.Sc. Degrees in progress (committee member)
    - Toutoudakis Michail (Ph.D.)
    - Vazaios Evangelos (Ph.D.)
- Babalis Charalampos (M.Sc.)
- Drakopoulos Panagiotis (M.Sc.)
- Kalokyri Varvara (M.Sc.)
- Kargatzis Dimitrios (M.Sc.)
- Kasimatis Vasilios (M.Sc.)
- Mantakos Georgios (M.Sc.)
- Nydriotis Apostolos (M.Sc.)
- Petrovski Stefan (M.Sc.)
- Thermolia Chriso (M.Sc.)
- Verykokidi Eleni – Angela (M.Sc.)
- Zervoudakis Nikolaos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Giannopoulos Emmanuel
    - Fragkakis Panteleimon
    - Kyriakidou Ioanna
    - Papageorgiou Dimitrios
    - Petheriotis Angelos
    - Vasilaki Anastasia
    - Pikionis Petros-Platon
    - Petheriotis Aggelos
    - Goutziouli Dimitra
    - Efrosyni Anesti
    - Ntelmpizis Asterios
  - Diploma theses completed (supervisor)
    - Fragkiadoulakis Emmanuel
    - Mariolou Nektaria
    - Zoukas Konstantinos
    - Bitsakis Theodoros
    - Kyriakopoulos Konstantinos
    - Vatikiotis Evangelos – Achilios
    - Stamatakis Georgios
    - Moulos Argyris
    - Tzavaras Aimilios
    - Kafritsas Nikolaos
  - Diploma theses completed (committee member)
    - Ziakas Christos
    - Moumoulidou Zafeiria
    - Kotzampasakis Georgios
    - Karageorgiou Kanin Christos
    - Botonakis Stylianos
- Demertzis Rafail-Athanasios
- Koundourakis Xenofon
- Neofytos Zacharia
- Motos Michail
- Efraimidis Michail
Name: Minos Garofalakis
Rank: Professor
Years in rank: 10
Full-time or part-time: Part-time (full-time Director, Information Management Systems Institute (IMSI), ATHENA Research and Innovation Center)
Division: Computer Science
Lab affiliation: Software Technology and Network Applications (SoftNet) Laboratory

A – Teaching

- Undergraduate courses taught
  - PLI 401: Algorithms and Complexity (mandatory)
  - PLI 415: Advanced Topics in Databases (elective)

B – Publications

- Publications in refereed journals
  - Published:
● Publications in refereed conferences

  o Accepted:


  o Published:


● Books and edited book chapters


C – Awards & Distinctions

• **ACM Fellow (class of 2018)**, “for contributions to data processing and analytics, particularly data streaming, approximation, and uncertainty”.

D – Funded Projects

• Current projects:
  Role: Work-Package Leader for WP5: Privacy-Preserving Data Analytics, for ATHENA RC

E – Professional service

• Conference Technical Program Committee service

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students completed (supervisor)

• Undergraduate students supervised
  o Diploma theses completed (supervisor)
    ▪ Vassilis V. Digalakis (“Data Analytics with Differential Privacy”, TUC, August 2018).
Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Michail Lagoudakis
Rank: Associate Professor
Years in rank: 5
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Intelligent Systems Laboratory

A – Teaching

• Undergraduate courses taught
  o COMP 102: Structured Programming (mandatory, spring semester), co-taught with Assoc. Prof. Katerina Mania
  o COMP 402: Theory of Computation (mandatory, spring semester)

B – Publications

• Publications in refereed conferences
  o Published

D – Funded Projects

  o Current projects
F – Service to the School and the University

- University responsibilities
  - Vice Rector of Administrative, Academic, and Student Affairs.

G – Advising

- Completed theses supervised as principal advisor:
  
  - Completed Diploma theses supervisor for
    1. Christos Petridis, defended on August 23, 2019, A Multi-Modal Q-Learning Approach using Normalized Advantage Functions and Deep Neural Networks
    2. Georgios Vastardis, defended on July 17, 2019, Auction-based Coordination for Task Allocation in Drone Teams
    3. Nektarios Sfyris, defended on July 17, 2019, Hybrid Visual Simultaneous Localization and Mapping (SLAM) on the Nao robot using ROS
    4. Eleni Tsagkarogianni, defended on June 21, 2019, Soccer Player Behavior Development for the RoboCup Standard Platform League
    5. Konstantinos Chasapas, defended on June 4, 2019, Detection of Disaster Events via Monitoring of Social Media
    6. Ioannis Brellas, defended on April 16, 2019, Simulation of Natural Disaster Response on Tangible Geographic Information Systems
    7. Sotirios Dimitras, defended on February 21, 2019, Design and Implementation of an Autonomous Robotic Vehicle for Mapping
    8. Antonios Vogiatzis, defended on February 15, 2019, Reinforcement Learning for Financial Portfolio Management
    9. Konstantinos Chokias, defended on October 22, 2018, Development of a Drone-Rover Docking System for Autonomous Transportation in Collaborative Missions
   10. Dimitrios Kontzedakis, defended on October 11, 2018, Adaptation of Action Space for Reinforcement Learning
   11. Dimitrios Chatziparaschis, defended on October 10, 2018, Aerial and Ground Robot Collaboration for Autonomous Mapping in Search and Rescue Missions
   13. Georgios Kotzampasakis, defended on September 14, 2018, Coordinated Coverage in Sensor Networks via Reinforcement Learning

  - Completed Ph.D. theses supervisor for
1. **Ioannis Rexakis**, defended on August 24, 2018, Doctorate awarded on September 26, 2018, Directed Exploration of Policy Space in Reinforcement Learning.

- **Ph.D., M.Sc. or Diploma theses principal advisor**, in progress:
  Various students

- **Ph.D., M.Sc. or Diploma theses committee member**, completed or in progress:
  
  o Completed
    1. Athina Georgara, MSc defended on August 1, 2019, Hedonic Games in the Real World: Machine Learning and Theoretical Extensions
    2. Ioannis Sifakis, MSc defended on May 30, 2019, Visualization of spatio-temporal processes on Google Maps
    3. Grigorios Kontadakis, MSc defended on June 21, 2018, Gamified 3D Orthopaedic Rehabilitation using Low-Cost and Portable Inertial Sensors
  
  o In Progress
    Various students
Annual Activity Report Template

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Katerina Mania
Rank: Associate Professor
Years in rank: 6 years 3 months as Assoc. Professor
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Distributed Multimedia Information Systems and Applications (MUSIC)

A – Teaching

- Undergraduate courses taught
  - COMP 418 - Computer Graphics (Spring 2019)
  - COMP 102 – Structured Programming (Spring 2019, co-taught with Assoc. Prof. Michail Lagoudakis)
  - COMP 101 – Introduction to Computers and Computer Science (Winter 2018)

- Graduate courses taught
  - COMP 603 – Visualization and Virtual Reality (Spring 2019)

- Curriculum & course development
  - Updated laboratory exercises for COMP 101
  - Updated large project work in platform UNITY3D as well as related laboratory material and exercises for COMP 418
  - Updated project work and exercises for COMP 418 in WEBGL
  - Updated large project work for COMP 603

B – Publications

- Publications in refereed journals
  - Published


- Publications in refereed conferences
  - Published

D – Funded Projects

- Project proposals submitted
  - ANCIENT KYDONIA HISTORY TOUR: Multimedia tour of ancient Kydonia through playful musical elements, using augmented reality technologies, call EYDE-ETAK ‘Research-Create-Innovate’, GSRT, PI
  - HAPTICS4SURGE: Haptic feedback in Virtual Reality Surgery Systems for Medical Education, call EYDE-ETAK ‘Research-Create-Innovate’, GSRT, PI
  - HNIOCHOS: Smart VR Driving Simulators, call EYDE-ETAK ‘Research-Create-Innovate, GSRT, PI
  - CARE4AUTISM: Aiding the educational process for individuals with autism through the use of virtual, augmented reality technologies and speech-based interaction, call EYDE-ETAK ‘Research-Create-Innovate, GSRT, PI
E – Professional service

- Associate Editor duties
  - Associate Editor, *ACM Transactions on Applied Perception*, ACM Press (since September 2007)
  - Associate Editor, *Presence Tele-operators and Virtual Environments*, MIT Press (since June 2006)

- Conference Technical Program Committee service – co-chair
  - IEEE Conference on Games 2019, co-chair of AR/VR program track

- Conference Technical Program Committee service - membership
  - IEEE Virtual Reality 2019 full paper conference track program committee
  - IEEE Conference on Games 2019
  - ACM Symposium on Applied Perception 2018, 2019
  - IEEE Int. Conf. in Games and Virtual Worlds for Serious Applications (VSGames), sponsored by IEEE, 2018, 2019
  - GALA 2018, 2019 (Games and Learning Alliance Conference)
  - GEC 2019 (Gender Equality Committee 2019)

- Reviewing activities
  - Various international conferences and journals

F – Service to the Department and the School

- School responsibilities
  - Member of Kosmiteia (School Council)
  - Responsible for public relations for the School of ECE
  - Studies’ advisor for 1st year studies
  - Participation in the University ‘Science Day’ for primary school children, October 2018
  - Participation in the University ‘Open Day’ for high-school students, March 2019
G – Advising

- Active graduate students supervised
  - Graduate students supervised (in progress)
    - Adonis Paterakis ‘Visualization based on Immersive Displays’, M.Eng
    - Grigoris Daskalogrigorakis ‘Guidance in Office Work Space employing Augmented Reality’, M.Eng
    - Panos Drakopoulos ‘Immersive Multi-modal Interaction for Complex Virtual Environments’, M.Eng
    - Giwrgos Tsiganis ‘Intelligent Immersive Simulations and Visualization’, M.Eng
    - Savvas Veziridis ‘Immersive Simulation Environments and Serious Games for Training’, M.Eng
    - Katerina Malisova ‘Conceptual 3D Visualization Methodologies’, M.Eng
  - Ph.D. and M.Sc. Degrees in progress (committee member)
    1. Androulaki Theano (M.Eng. Architecture)
  - Diploma theses completed (supervisor)
    - Aggelos Marinakis ‘Augmented Reality Application Featuring Interactive Geometric Transformations of 3D CAD Models’
    - Fotios Giariskanis ‘ARCHIMUSIC3D: Real-Time Graphical System for Reciprocal Transformations between Music and Refined Urban Architectural Design’
    - Gregorios Daskalogrigorakis ‘Holo-board: An Augmented Reality Application Manager supporting Machine Vision’
    - Artemis Georgakopoulou ‘Development of an Interactive Projection Mapping System’
    - Konstantinos Kostis ‘Web-based Decision Policy Definition and Simulation Application for the Gorgias Argumentation Framework’
    - Andreas Polychronakis ‘Foveated Computer Graphics in Immersive Virtual Reality’
  - Diploma theses supervised (in progress)
    - Giannis Kritikos ‘Interactive Documentary in Virtual Reality’
    - Alexandros Koukis ‘A mobile app which Automates the Creation Process for the E-Shadow platform’
    - Georgios Gerodidis ‘Development of 3D Animated Graphics in Unity based on Open-Source Motion Capture Data’
    - Anastasia Reboulaki ‘Visualization of Uncertainty’
- Minas Katsiokali ‘Mobile Augmented Reality for the Visualization of Coastal Erosion based on GIS’
- Marina Giannaraki ‘A Serious Game for the Improvement of Social Skills based on Music Rhythm’
- Michalis Methymakis ‘An Input Architecture for Hands Interaction for Immersive Virtual Reality Applications based on Mobile Platforms’
- Michalis Efraimidis ‘Wireless Embedded System based on a Glove for Hand Tracking and Sense of Touch in 3D Environments’
- Antonis Danas ‘Interactive Implementation of Missions based on Graphics in Unity3D’

- Diploma theses completed (committee member)
  - Evaggelos Vatikiotis
  - Anastasios Chatziioannou

- Diploma theses in progress (committee member)
  - Konstantinos Politsis
  - Marios Mavrakis
Technical University of Crete
School of Electrical & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Euripides G.M. Petrakis
Rank: Professor
Years in rank: 6
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Intelligent Systems Laboratory

A – Teaching

- Undergraduate courses taught
  - COMP 202 : Data Structures and File Structures (mandatory)
  - COMP 518 : Services in the Cloud and the Fog

- Graduate courses taught
  - AIS 605 : Special Topics in Information Systems

- Labs taught
  - COMP 518 : Services in the Cloud and the Fog
  - COMP 202 : Data Structures and File Structures

- Curriculum & course development
  - New courses / labs developed
    - COMP518: Services in the Cloud and the Fog
  - Lecture notes / slides developed
    - COMP518: Services in the Cloud and the Fog

B – Publications

- Publications in refereed journals
Submitted: Many

Accepted: See below

Published:


- Publications in refereed conferences
  - Accepted: See below
  - Published:
    
    


Books and edited book chapters


C – Awards & Distinctions

- IEEE Senior Member, June 2019

D – Funded Projects

- Current projects:
  - Secretariat for Research and Technology, Research and Innovation Initiative, Project Budget €841,100, Budget for TUC €130,000, Role in project: Co-Principal Investigator (Co-PI)

- Project proposals submitted:
  - Several proposals submitted in various Horizon2020, ESPA, Intereg Calls

E – Professional service

- Society Technical Committee duties
  - Conference Technical Program Committee service
  - Program Committee (PC) member, 19th International Conference on Web Engineering (ICWE), 2019-2020 (each year).
  - Technical Program Committee (TPC) member and session chair, IEEE Bioinformatics and Bioengineering (IEEE BIBE), 2015 & 2019.
  - Technical Program Committee (TPC) member, IEEE Sarnoff Symposium (IEEE SARNOFF), NJ, USA, 2016-2019 (each year).

o IoT Track Chair, 9th Intern. Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN–2018), 2018-2019 (each year).


o Program Committee (PC) member, Ambient Intelligence and Humanized Computing Journal, special issue JAIHC-SI 18, 2019.

o Program Committee (PC) member, IoT Track, 9th Intern. Conference on Ambient Systems, Networks and Technologies (ANT 2018), May 8–11, 2018, Porto, Portugal.

• Conference Organization (specify role)
  o IoT Track Chair, 9th Intern. Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN–2018), 2018-2019 (each year).

• Reviewing activities
  o Reviewer for Several conferences / journals

F – Service to the School and the University

• School responsibilities
  o Laboratory Director, Intelligent Systems Laboratory, Department of Electronic and Computer Engineering, Technical University of Crete
  o Member of the Board, Telecommunication Research Institute
  o Research Committee, Technical University of Crete (TUC), elected from faculty body (2019 – today)

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised (advisor, completed)
    ▪ Mainas Nikolaos (M.Sc)
  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Stravoskoufos Konstantinos (Ph.D.)
    ▪ Preventis Alexandros (M.Sc.)
    ▪ Thermolia Chryso (M.Sc.)
- Kargatzis Dimitris (M.Sc.)
- Tsakos Konstantinos (M.Sc)
- Aimilios Tzavaras (M.Sc)

- Ph.D. and M.Sc. degrees awarded (committee member)

- Ph.D. and M.Sc. Degrees (committee member)
  - Livanos Georgios (towards Ph.D)
  - Malandrakis Nikolaos (towards Ph.D)
  - Moirogiorgou Konstantia (towards Ph.D)
  - Oikonomidis Dimitrios (towards Ph.D)
  - Rexakis Ioannis (towards Ph.D)
  - Chorianopoulou Arodami (towards M.Sc.)
  - Giannoudaki Maria (towards M.Sc.)
  - Kydonakis Aris (towards M.Sc.)
  - Pitsiladis Andreas (towards M.Sc.)
  - Trohatou Ioanna (towards M.Sc.)
  - Xifaras Konstantinos (towards M.Sc.)
  - Hliaoutakis Angelos (towards Ph.D)

- Undergraduate students supervised

  - Diploma theses in progress (supervisor)
    - Myrizakis George
    - Tzavaras Aimilios
    - Karageorgiou Kaneen Christos
    - Karavasileiou Aikaterini
    - Grigoraki Vasiliki
    - Botonakis Stelios
    - Neofytos Zacharia
    - Alexiou Michael
    - Kostalia Elli
    - Koundourakis Xenofon

  - Diploma theses completed (supervisor)
    - Christodoulopoulos Christos
    - Myrizakis George
    - Konstantopoulos Panagiotis
    - Tsakos Konstantinos

  - Diploma theses in progress (committee member)
    - Pogas Nektarios
    - Doko Aneza
    - Syrigos Demetrios
- Gligoris Georgios

  - Diploma theses completed (committee member)
    - Panou Christos
    - Konstandinidi Panagiota
    - Polydorou Alexios
Technical University of Crete
School of Electrical & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Vasilis Samoladas
Rank: Assistant Professor
Years in rank: 12 years
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Software Technology and Network Applications Laboratory

A – Teaching

- Undergraduate courses taught
  - COMP 301: Operating Systems (mandatory)
  - COMP 420: Principles of Distributed Software Systems
  - COMP 416: Computational Geometry

- Graduate courses taught
  - COMP 607: Principles of Distributed Software Systems
    (Offered jointly with COMP 420)
  - COMP 616: Computational Geometry (Offered jointly with COMP 416)

B – Publications

- Publications in refereed journals
  - Published:
    - Nikos Giatrakos, Antonios Deligiannakis, Minos N. Garofalakis, Daniel Keren, Vasilis Samoladas: Scalable approximate query

E – Professional service
• Conference Technical Program Committee service
  o KDIR-2018 International Conference on Knowledge Discovery and Information Retrieval
  o EUSPN-18 International Conference on Emerging Ubiquitous Systems and Pervasive Networks
  o CCS-2018 Conference on Complex Systems

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. Degrees in progress (committee member)
    ▪ Vardoulakis Emmanuel (M.Sc.)

• Undergraduate students supervised
  o Diploma theses in progress
    ▪ Kabioti S.
    ▪ Balabanis I.
    ▪ Epoure E.
    ▪ Barakos P.
    ▪ Seisaki E.

  o Diploma theses completed (supervisor)
    ▪ Konidaris V.
Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Costas Balas
Rank: Professor
Years in rank: 4
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Electronics Laboratory, Director

A – Teaching

• Undergraduate courses taught
  o ACE 204: Electronics I (mandatory)
  o ACE 412: Optoelectronics
  o ACE 513: Biomedical Engineering

• Graduate courses taught
  o ACE 607: Optoelectronics
    (Offered jointly with ACE 412)

B – Publications

• Publications in refereed journals
  o Published:

  • C. Balas, G. Epitropou, A. Tsapras, N. Hadjinicolaou, “Hyperspectral Imaging and Spectral Classification for Pigment Identification and Mapping in Paintings by El Greco and his Workshop” in Multimedia Tools and Applications pp 1-17 (spinger), 2018
  • Vourlaki, C. Balas, G. Livanos, M. Vardoulakis, G. Giakos, M. Zervakis Bootstrap clustering approaches for organization of data: Application in improving grade separability in cervical neoplasia, Biomedical Signal Processing and Control, 49, 263-273, Elsevier 2018

• Patents

D – Funded Projects

- Current projects:
  - "SEA.VIEW.NET - REAL TIME MEASUREMENT AND PUBLICATION ON THE WEB OF THE SUBSEA WATER CLARITY IN THE AREAS OF TOURIST INTEREST OF CRETE THROUGH INNOVATIVE DEVICES NETWORK" funded by Region of Crete
  - INSPECT - Intelligent SPECTral Camera Technology funded by NSRF 2014-2010 Competitiveness, Entrepreneurship & Innovation, Action "RESEARCH - CREATE - INNOVATE" (QCELL)

- Project proposals submitted:
  - PhotonPharma - Enabling real time release testing through miniaturized PHOTONic-based spectroscopic sensing in continuous PHARMAceutical tablet manufacturing line, H2020-ICT-2018-2020
  - CoinLab - Computer Vision and Hyperspectral Microscopy. Techniques for Documentation and Preservation of Numismatic Collections, NSRF 2014-2010 Competitiveness, Entrepreneurship & Innovation, Action "RESEARCH - CREATE - INNOVATE"
  - HyperMantis – Development of a hyperspectral imaging multi-modal microscope for forensics applications, NSRF 2014-2010 Competitiveness, Entrepreneurship & Innovation, Action "RESEARCH - CREATE - INNOVATE"
  - i-blueCulture – A novel 3D framework providing insuperable and real-time experience within live streaming, NSRF 2014-2010 Competitiveness, Entrepreneurship & Innovation, Action "RESEARCH - CREATE - INNOVATE"
  - i-diveBuddy, Novel AUV and 3D/VR/AR Services for Underwater Environments, NSRF 2014-2010 Competitiveness, Entrepreneurship & Innovation, Action "RESEARCH - CREATE - INNOVATE"
  - S.D.M.V. – smart monitoring System to support precision Disease Management in Viticulture, NSRF 2014-2010 Competitiveness, Entrepreneurship & Innovation, Action "RESEARCH - CREATE - INNOVATE"
E – Professional service

- Associate Editor duties
  - Guest editor Special Issue “Hyper- and Multi-Spectral Imaging” in Applied Sciences
  - Editorial Board member Journal of Applied Sciences
  - Editorial Board member Journal of Applied Sciences

- Conference Technical Program Committee service
  - Steering committee member in the 2018 IEEE International Conference on Imaging Systems and Techniques Kraków, Poland, October 16-18, 2018
  - Organizing committee member in the European Life Science Innovation and Biomed Technology Congress” October 24-25, 2018 at London, UK

- Conference Organization (specify role)

- Reviewing activities
  - More than 10 reviews of Journal papers

F – Service to the Department and the School

- Departmental responsibilities
  - Director of the Electronics Lab

- School – level responsibilities
  - Chairman of TUCs Innovation House

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Papathanasiou Athanasios (M.Sc.)
- Ph.D. and M.Sc. students supervised (advisor, in progress)
  - Markellos Dimitrios (Ph.D.)
  - Petrantonaki Maria (Ph.D.)
  - Rossos Christos (Ph.D.)
  - Tsapras Athanasios (Ph.D.)
  - Epitropou Giorgos (M.Sc.)
  - Chatziioannou Anastasios (M.Sc.)
  - Logothetis Fragkoulis (M.Sc.)

- Ph.D. and M.Sc. degrees awarded (committee member)
  - Nikolaou Aristides (M.Sc.)

- Ph.D. and M.Sc. Degrees (committee member)
  - Makris Nikolaos (Ph.D.)
  - Nikolaou Aristides (Ph.D.)
  - Kostopoulos Konstantinos (M.Sc.)

- Undergraduate students supervised

  - Diploma theses in progress
    - Emmanouilidis Konstantinos
    - Karatsoris Herodotos
    - Vogiatzis Konstantinos
    - Pediaditis Dimitrios
    - Zacharopoulou Iliana
    - Mavrakis Marios
    - Spyridaki Styliani

  - Diploma theses completed (supervisor)
    - Kyriakopoulos Kosmas
    - Tontou Nikoletta
    - Papadogiannis Sevastianos
    - Pouros Spyridon
    - Boras Charalabos
    - Chatziioannou Anastasios
    - Georgiou Georgios
    - Karibidis Dionysios
    - Logothetis Fragkoulis
    - Vastaroucha Stergiani
    - Christodoulou Theofilos

  - Diploma theses in progress (committee member)
    - Apostolakis Apostolos
- Drakos Vissarios
- Gegkios Nikolaos
- Gompaki Efstathia
- Kokkonas Dimitrios
- Pappas Nikolaos
- Polychronakis Andreas
- Gkouvatsos Nikolaos
- Mouzakitis Nikolaos

- Diploma theses completed (committee member)
  - Tiriakidis Nikolaos
  - Stoikotidis Stamatis
  - Diamantis Christos
Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Matthias Bucher
Rank: Associate Professor
Years in rank: 5
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Electronics Laboratory

A – Teaching

- Undergraduate courses taught
  - ECE 301 – Electronics II (Fall 2018)
  - ECE 416 – Design of CMOS Analog Integrated Circuits (Spring 2019)

- Graduate courses taught
  - ECE 604 – Special Themes of CMOS Analog Integrated Circuit Design (Spring 2019)

- Labs taught
  - ECE 301 – Electronics II (Fall 2018)
  - ECE 416 – Design of CMOS Analog Integrated Circuits (Spring 2019)

B – Publications

- Publications in refereed journals
  - Submitted:

Published:


Publications in refereed conferences


N. Makris, M. Bucher, "JFETLAB – An Online Simulation Tool for Double Gate Junction FETs", 7th *Int. Conf. on Micro-Nanoelectronics, Nanotechnologies and MEMS (Micro&Nano)*, Thessaloniki, Greece, Nov. 5-7, 2018.

A. Papadopoulou, L. Chevas, A. Nikolaou, N. Makris, M. Bucher, "Weak Inversion Ring Oscillator Design Study in 65nm CMOS Technology under Total Ionizing Dose Effects", 7th *Int. Conf. on Micro-Nanoelectronics, Nanotechnologies and MEMS (Micro&Nano)*, Thessaloniki, Greece, Nov. 5-7, 2018.


N. Makris, K. Zekentes, M. Bucher, “High-temperature compact modeling of SiC and GaN junction FETs”, 12th *European Conf. on Silicon
C – Awards & Distinctions

- The paper “N. Makris, M. Bucher, F. Jazaeri, J.-M. Sallese, A compact model for static and dynamic operation of symmetric double-gate junction FETs, Proc. European Solid-State Device Research Conference (ESSDERC), Dresden, Germany, Sept. 3-6, 2018.” was among the top rated papers of the conference, and was invited to be published in an extended version in the Special Issue on ESSDERC 2018, IEEE Journal of the Electron Devices Society (J-EDS).


D – Funded Projects

- Current projects:

- Project proposals submitted:
  - ΕΠΑνΕΚ 2014-2020 «Ερευνώ-Δημιουργώ-Καινοτομώ»

- Development of Electronics Laboratory infrastructure:
  - Cadence IC & System software.
  - Keysight ADS and IC-CAP software.

E – Professional service
- Member of the Board, Micro- & Nano Scientific Society (micro-nano.gr), Greece.
- Conference Technical Programme Committee service
  - TPC member, 8th Int. Conf. on Modern Circuits and Systems Technologies (MOCAST 2019).
  - TPC member, 26th Int. Conf. on Mixed Design of Integrated Circuits and Systems (MIXDES 2019).
  - TPC member, PAnhellenic Conference on Electronics & Telecommunications (PACET 2019).
- Reviewing activities
  - IEEE Transactions on Electron Devices
  - IEEE Journal of the Electron Devices Society
  - Solid-State Electronics

**F – Service to the Department and the School**

- Departmental responsibilities
  - Member of admission committee of undergraduate students.
  - Deputy Member of admission committee for postgraduate students.

**G – Advising**

- Graduate students supervised
  - Ph.D. students supervised (supervisor):
  - Ph.D. students co-supervised:
    - Dimitrios Markellos
  - M.Sc. students supervised (supervisor):
    - Loukas Chevas, Enrollment: July 2017.
- Undergraduate students supervised
  - Diploma theses completed (supervisor):
  - Diploma students (supervisor):
    - Georgios Fousteris, Characterization and modeling of LDMOSFETs.
- Apostolos Apostolakis, Design of low voltage, low power CMOS analog integrated circuits under radiation.
- Stamatis Stoikotidis, Tool for statistical noise data analysis in CMOS technology.
- Christos Diamantis, Characterization of statistical variability of enclosed gate nMOSFETs.
- Vissarion Drakos, Characterization of statistical variability of enclosed gate pMOSFETs.
- Dimitrios Kokkonas, Experimental and analytical study of scaling in advanced CMOS technologies.
- Nicolas Gegios, Analysis of analog and RF Figures-of-Merit of CMOS technology.
Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Apostolos Dollas
Rank: Professor
Years in rank: 18
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Microprocessor and Hardware Laboratory

A – Teaching

- Undergraduate courses taught
  - ACE 101: Logic Design (mandatory)
  - ACE 203: Advanced Logic Design (mandatory)
  - ACE 411: Microprocessor-Based Embedded Systems Design

- Labs taught
  - Supervised the labs of ACE 203, in which some of the laboratory exercises were revised for hands-on lab experience with Xilinx Spartan FPGA's.
  - Supervised the labs and projects of ACE 411 (11 projects, all fully implemented).

- Curriculum & course development
  - Lecture notes / slides developed
    - Revised the ACE 203 (Advanced Logic Design) class notes which were distributed in preliminary form through the web-based e-learning environment Webcourses.

B – Publications

- Publications in refereed conferences (Published)


C – Awards & Distinctions

o Steering Committee member, IEEE/ACM 29th International Symposium on Field Programmable Logic (FPL), Barcelona, Spain, Sep. 9-13, 2019.

D – Funded Projects

- Current projects:
  
o Principal Investigator for TUC, “Centre for the study and sustainable exploitation of Marine Biological Recourses (CMBR)”, Sub-project (5) “Technical University of Crete – Upgrading and operation of research infrastructures within the framework of the CMBR Infrastructure “, Funded by the Ministry of Education, Research and Religious Affairs, General Secretariat for Research and Technology (GSRT), 2018 (3-year project), TUC funding: €153.800

- Participation as a Researcher in Projects:
Senior Research Associate in the projects ExaNeSt and EuroEXA (CARV group, ICS/FORTH), RURAL (TUC).

E – Professional service

- Conference Technical Program Committee service
  - Steering Committee and Program Committee member, IEEE/ACM 29th International Symposium on Field Programmable Logic (FPL), Barcelona, Spain, Sep. 9-13, 2019.
  - Program Committee Member, 2018 International Conference on Field-Programmable Technology (FPT, IEEE Sponsored), Naha, Okinawa, Japan, Dec. 10 - 14, 2018.
  - Program Committee Member, 2019 IEEE Symposium on Bioinformatics and Bioengineering (BIBE), Athens, Greece, 2019.

In all the program committees in which I participated (see above), I contributed with reviews of papers (as many as 8 full paper reviews in a single conference), the selection process, organizational issues, and when possible, attendance of the PC meeting. Because my field is rapidly changing, international conferences reflect the state of the art much more than archival journals and I have deliberately given the weight of my reviewing and committee activity on such conferences.

- Reviewing activities
  - Several international conferences, including all in which I participate in the program committee (see above) and journals, as well as project proposals

F – Service to the School and the University

- School responsibilities
  - Faculty Advisor to the 1st semester students
  - Member of staff election boards (TUC)
  - Member of faculty election boards at:
    - The Technical University of Crete
    - University of Ioannina
    - The Technological Educational Institute of the Peloponnese
  - Member of Research Staff Election at:
    - Institute of Computer Science, FORTH
  - Member of Ph.D. Examination Committee at:
  - The National Technical University of Athens
  - Member of the Student Placement Committee, supervising the examination in the subject of Logic Design for graduates from other Departments who want to enroll at ECE.
  - Speaker at the Summer School of the BEST Student Organization, delivering a lecture on “Microcontrollers and Microprocessors in Embedded Systems for Earth Observation”, Summer School “Drones vs. Satellites”, BEST Chania, July 11, 2019.
G – Advising

• Active graduate students supervised
  
  o Ph.D. and M.Sc. theses completed (supervisor)
    ▪ Kyriakidis Konstantinos (M.Sc.)
  
  o Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ Ioannou Aggelos (Ph.D.)
    ▪ Malakonakis Pavlos (Ph.D.)
    ▪ Giakoumakis Pavlos (M.Sc.)
  
  o Ph.D. and M.Sc. Degrees completed (committee member)
    ▪ Maragos Konstantinos (Ph.D. – NTUA)
    ▪ Malavazos Konstantinos (M.Sc.)
    ▪ Miteloudi Konstantina (M.Sc.)
  
  o Ph.D. and M.Sc. Degrees in progress (committee member)
    ▪ Brokalakis Andreas (Ph.D.)
    ▪ Charitopoulos Georgios (Ph.D.)
    ▪ Vatsolakis Charalampos (Ph.D.)
    ▪ Amourgianos-Lorentzos Vasilios (M.Sc.)
    ▪ Linardos Christos (M.Sc. – MRED/TUC)
    ▪ Malavazos Konstantinos (M.Sc.)
    ▪ Savvakos Charalampos (M.Sc.)
    ▪ Tsakaneli Stavroula (M.Sc.)

• Undergraduate students supervised
  
  o Diploma theses in progress (supervisor)
    ▪ Badogiannis Nikolaos
    ▪ Chatzidaki Eleftheria
    ▪ Fotakis Tzanis
    ▪ Foteinopoulos Georgios
    ▪ Iliaki Anastasia
    ▪ Kalomiris Ioannis
    ▪ Kasfikis Konstantinos
    ▪ Konstantopoulos Konstantinos
    ▪ Kordas Sotiris
    ▪ Kyparissas Nikolaos
    ▪ Loukas Charisios
    ▪ Lykos Emmanouil
    ▪ Marinaki Eftihia
    ▪ Pitsis Antonios-Georgios
- Sotiropoulos Antonios
- Souflakis Emmanouil
- Theodoroglaki Ioanna
- Toupas Petros
- Vailakis Apotolos
- Zacheilas Theofilos

- Diploma theses completed (supervisor)
  - Fragiadakis-Theodorouleas Michail
  - Koutroumanos Panagiotis
  - Maragkou Sofia
  - Pitsis Antonios Georgios
  - Toupas Petros

- Diploma theses in progress (committee member)
  - Iskis Nikolaos
  - Katsoudas Panagiotis
  - Morianos Ioannis
  - Paspalakis Stavros

- Diploma theses completed (committee member)
  - Dimitras Sotiros
  - Georgiadis Vasilios
  - Miliadis Panagiotis
  - Rekoumis Dimitrios
Name: Fotios D. Kanellos
Rank: Associate Professor
Years in rank: 1
Full-time or part-time: Full-time
Division:
Lab affiliation: Electric Energy Systems

A – Teaching

- Undergraduate courses taught
  o ENE 401 : Analysis of Electrical Installations and Electric Energy Systems (mandatory)
  o ENE 412 : Analysis of Electric Power Systems
  o ACE 419 : Power Electronics

- Labs taught
  o ACE 419 : Power Electronics
  o ENE 412 : Analysis of Electric Power Systems

B – Publications

- Publications in refereed journals
  o Published:

C – Awards & Distinctions

E – Professional service

- Reviewing activities
  - IEEE Transactions on Power Systems
  - IEEE Transactions on Smart Grid
  - IEEE Systems Journal
  - IEEE Transactions on Sustainable Energy
  - Electric Power Systems Research, Elsevier
  - Engineering Applications of Artificial Intelligence Journal, Elsevier
  - Transportation Research Part D Journal, Elsevier
  - Ocean Engineering Journal, Elsevier

F – Service to the School and the University

- School – level responsibilities
  - Director of Electric Energy Systems Laboratory

- University responsibilities
  - Member of several evaluation and technical committees of TUC

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. Degrees in progress (committee member)
    - Konstantinidis George (M.Sc)

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - Christofolakis Tryfon
    - Pitta Eleni
    - Rampias Sarantis
    - Goumagias Konstantinos
    - Karandinou Ekaterini-Agapi
    - Farinis George
    - Psarakis Ioannis
    - Palialeksis Konstantinos
    - Chatzioannidis Lazaros

  - Diploma theses completed (supervisor)

  - Diploma theses in progress (committee member)
    - Tsaparas Christos
    - Konidari Iro
    - Vardaksis Ioannis
    - Saoulis Lampros
    - Mavrovatis Stylianos
- Sdoukos Thomas
- Litsios Sotirios
- Rousakis Skouloudis
- Moraitis Ioannis
- Konstantinidou Antri
- Lagoudakis Marios
- Ioannou Vassilios
- Saloustros Vassilios
- Genetzakis Georgios
- Koutsaki Eleni
- Stasinos Apostolos

- Diploma theses completed (committee member)
  - Tsamoudalis Konstantinos
Name: Eftichios Koutoulis
Rank: Associate Professor
Years in rank: 3
Full-time or part-time: Full – Time
Division: Electronics and Computer Architecture
Lab affiliation: Circuits, Sensors and Renewable Energy Sources Laboratory

A – Teaching

- Undergraduate courses taught
  - ACE 102: Basic Circuit Theory (mandatory)
  - ACE 511: VLSI and ASIC Systems Design
  - ACE 515: Electronic Energy Management Systems

- Graduate courses taught
  - ACE 601: VLSI and ASIC Systems Design (Offered jointly with ACE 511)
  - ENE 602: Electronic Energy Management Systems (Offered jointly with ACE 515)

- Curriculum & course development
  - Lecture notes / slides developed
    - ACE 102 - Basic Circuit Theory: updated the existing slides
    - ACE 511 - VLSI and ASIC Systems Design: updated the existing slides
    - ACE 515 - Electronic Energy Management Systems: updated the existing slides & developed new slides

B – Publications

- Publications in refereed journals
  - Published:


• Publications in refereed conferences
  o Published:

C – Awards & Distinctions

• Sectorial Scientific Council on Energy / National Council for Research and Innovation (NCRI), Replacement member (since April 2018).

D – Funded Projects

• Current projects:
  o DES2iRES project, ERANETMED “Energy-Water Nexus”: Project Coordinator.
  o SmartPV project, “Research - Create - Innovate” call: Project Coordinator.
  o PERPS project, “Research - Create - Innovate” call: Research team member.

• Project proposals approved for funding:
  o eSOLAR project, “Greece-China Co-operation” GSRT call: Project Coordinator.

E – Professional service

• Associate Editor duties
Guest Editor, *IEEE Access*: Special Section on "Advanced Sensor Technologies on Water Monitoring and Modeling".

Associate Editor of the “*Renewable Energy and Environmental Sustainability*” journal (publisher: EDP Sciences).

Member of the Editorial Board of the “*Renewable Energy*” journal (publisher: Elsevier).

- Conference Technical Program Committee service
  - Track Chair and Scientific Committee member, “13th International Conference of the IMACS TC1 Committee (ELECTRIMACS 2019)”, 21-23 May 2019, Salerno, Italy.

- Reviewing activities
  - Performed 26 reviews of journal papers (including revisions) for:
    - IEEE Transactions on Power Electronics
    - IEEE Transactions on Energy Conversion
    - IEEE Transactions on Industrial Electronics
    - IEEE Transactions on Instrumentation & Measurement
    - IET Power Electronics
    - Renewable Energy
    - Desalination

  - Reviewed 1 book proposal for Springer.

**F – Service to the School and the University**

- School responsibilities
  - Director of the “Circuits, Sensors & Renewable Energy Sources Laboratory”
  - Dean’s Committee member
  - Member of Board of Directors of the Telecommunication Systems Research Institute
  - ECE School coordinator of the ERASMUS+ program
  - ECE School coordinator of the undergraduate students practical training program
Member of the Technical Council of the Technical University of Crete
Undergraduate studies advisor

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. theses in progress (supervisor)
    1. Mandourarakis Ioannis (Ph.D.)
    2. Malisovas Athanasios (M.Sc.)
    3. Vardaxis Ioannis (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    1. Mikel Ropi
    2. Tsaparas Christos
    3. Mavrommatis Stylianos
    4. Stasinos Apostolos
    5. Constantinidou Andria
    6. Vrouvakis Ioannis
    7. Almpantis Anastasios
    8. Sdoukos Thomas
    9. Kalogerakis Christos
   10. Iskis Nikolaos
   11. Glykis Theodoros
   12. Papargiriou Athanasios
   13. Tepelidis Avraam
   14. Kosmopoulos Stefanos
   15. Petrakis Emmanuel
   16. Politis Vasilios
   17. Koukouzas Christos
   18. Vatsithianos Nikolaos

  - Diploma theses completed (supervisor)
    1. Dimitriadis Konstantinos
    2. Georgiadis Vasilios
    3. Dimitriou Georgios
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: George S. Stavrakakis
Rank: Full Professor
Years in rank: 24
Full-time or part-time: Full-time
Division: Electronic and Computer Architecture
Lab affiliation: Circuits, Sensors and Renewable Energy Sources (CSRES) Laboratory (www.elci.tuc.gr)

A – Teaching

● Undergraduate courses taught
  ○ ENE 301: Introduction to Power Systems (mandatory)
  ○ ENE 511: Renewable Energy Sources

● Graduate courses taught
  ○ SYS 601: Advanced Topics in Optimal Control

● Labs taught
  ○ Introduction to Power Systems (ENE 301)
  ○ Renewable Energy Sources (ENE 511)

● Curriculum & course development
  ○ Introduction to Power Systems (ENE 301)
  ○ Renewable Energy Sources (ENE 511)

B – Publications

● Publications in refereed journals
  ○ Submitted: 3
  ○ Accepted: 2
  ○ Published: 2

● NEOFYTOS NEOFYTOU, KONSTANTINOS BLAZAKIS, YIANNIS KATSIGIANNIS, GEORGIOS STAVRAKAKIS, “Modeling Vehicles to Grid as a Source of Distributed Frequency Regulation in Isolated Grids with Significant RES Penetration” Energies 2019, 12(4), 720; https://doi.org/10.3390/en12040720

● Patents: one in the national level (see below)

GR: Έξυπνη μέθοδος και ολοκληρωμένη ηλεκτρονική διάταξη διαχείρισης πληροφοριών σε συστήματα εξασφάλισης εσωτερικής άνεσης με ταυτόχρονη ενεργειακή διαχείριση κτιρίων. (OBI2004010045)

EN: Intelligent methodology and integrated electronic device of information processing ensuring the indoor comfort with simultaneous energy management in buildings. (OBI2004010045)

D – Funded Projects

■ Current projects:

“Centre for the study and sustainable exploitation of Marine Biological Resources (CMBR)”, GSRT-Greece financing. Started January 2018-Duration until March 2021.

■ Project proposals submitted: 2 (still waiting for the submitted proposals evaluation results)

E – Professional service

■ Member of the Editorial Board and permanent reviewer of the peer review international journal “ENERGIES” i.e. http://www.mdpi.com/journal/energies/editors#editorialboard

■ Society Technical Committee duties: once in the International Committee of Electrical Machines- ICEM

■ Regular Reviewer in eight high quality international Journals with referees:

- Journal of Intelligent and Robotic Systems.
- Electric Power Systems Research
- International Journal of Distributed Sensor Networks
- Renewable Energy journal
- Reviewer on call basis IEEE Transactions on Automation Science and Engineering
- Neural Computing and Applications
- Applied Sciences

- Participation in National Committees: one

“Member of the Permanent Committee of the Prefecture of Crete for the Energy Planning of Crete Island”

G – Advising

- Active graduate students supervised
  - Ph.D. students supervised (advisor, in progress)
    - Blazakis Constantinos
    - Yotis Thomas
  - M.Sc. students supervised (advisor, in progress)
    - Liliopoulos Sotirios
    - Kladou Anastasia
    - Viskadouraki Evangelia
    - Vardaxis Ioannis
  - Ph.D. and M.Sc. Degrees (committee member)
    - Mandourarakis Ioannis (Ph.D.)
    - Tripolitakis Evangelos (Ph.D.)
    - Fytrakiki Evangelia (M.Sc.)
    - Xifaras Konstantinos (M.Sc.)
    - Argyriou Ioannis (School of Environmental Engineering)
    - Member of the Intermediate Examination Committee of ECE School -N.T.U.A. Athens (five members) for the PhD supervising of Mr. Georgios Psarros
  - Ph.D. and M.Sc. Degrees completed (committee member)
    - Member of the Intermediate 5 members Examination Committee and of the 7 members final Examination Committee of ECE School -N.T.U.A. Athens for the PhD supervising and examination of Mr. Nikolaos Koutsoukis (June 2019)

- Undergraduate students supervised
  - Diploma theses in progress (supervisor):
    - Gioumatzidis Meletios
    - Sgourou Maria
    - Chalevidis Dimitrios
• Tsokas Vasilios
• Dais Georgios
• Bardoutsou Artemis
• Maragkos Praxitelis
• Nikoloudis Stavros
• Rousakis Skouloudis
• Kefalas Vasileios
• Zarkada Savvoula

o Diploma theses completed (supervisor):
  • Fiorentzi Georgia
  • Liliopoulos Sotirios
  • Mavrogianni Amalia
  • Tsamoudalis Konstantinos
  • Boglou Vasileios
  • Lekkas Christos
  • Melagoniti Konstantina
  • Vogiatzis Georgios
  • Venianaki Georgia
  • Polimenopoulou Alexandra
  • Dimitriou Georgios
  • Maragos Praxitelis
  • Nikoloudis Stavros

o Diploma theses in progress (committee member):
  • Asimakis Giannopoulos
  • Aronis Spyridon
  • Bitzanakis Joseph
  • Dimitriadis Konstantinos
  • Gentsis Charalampos
  • Kosmopoulos Stefanos
  • Lagoudakis Marios
  • Parlanis Dimitrios
  • Petrakis Emmanuel
  • Sfakianakis Konstantinos
  • Spyridakis Georgios
  • Papargyriou Athanasios
  • Tepelidis Avraam
  • Tigas Argyrios
  • Glikis Theodoros
  • Dimitriou Georgios
  • Polimenopoulou Alexandra
  • Charalampous Charalampos

o Diploma theses completed (committee member): various, e.g.,
  • Peristeropoulos Antonios
  • Polomarkaki Sofia
  • Papanikolaou Marios
Technical University of Crete
School of Electrical & Computer Engineering

Annual Activity Report
For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Nikolaos Bekiaris-Liberis
Rank: Assistant Professor
Years in rank: 1
Full-time or part-time: Full – Time
Division: Systems
Lab affiliation: Automation Laboratory

A – Teaching

• Undergraduate courses taught
  o SYS 401: Linear Systems (mandatory)
  o SYS 402: Control Theory With Applications (mandatory)

• Graduate courses taught
  o SYS 603: Nonlinear Systems

• Curriculum & course development
  o Lecture notes / homework / exam / lab exercises
    ▪ SYS 401: Linear Systems: Lecture notes, homework, and exam development. Update of lab exercises.
    ▪ SYS 402: Control Theory With Applications: Lecture notes, homework, and exam development. Update of lab exercises.
    ▪ SYS 603: Nonlinear Systems: Lecture notes, homework, and exam development.

B – Publications

• Publications in refereed journals
  o Published:


  o Submitted:


- Publications in refereed conferences

  o Published:


C – Awards & Distinctions

- Member of the research team, receiving the 2018 IEEE ITS Outstanding Application Award from the IEEE Intelligent Transportation Systems Society (ITS) for Contributions in Vehicle Automation and Communication Systems and Applications.

D – Funded Projects

- Completed projects:
  - PADECOT—Partial Differential Equation Model-Based Control of Traffic Flow, European Commission, Horizon 2020 Marie Sklodowska-Curie Individual Fellowship Grant. Role: Marie Sklodowska-Curie Fellow. (Project ended August 28th 2019.)

- Submitted proposals:
  - System for personalized management of electric vehicles charging/discharging. Co-funded by the Greek Ministry of Economy and Development and the European Union. Role: Co-Investigator. (Proposal not funded.)
  - Smart integrated management system for electric vehicles charging stations. Co-funded by the Greek Ministry of Economy and Development and the European Union. Co-Investigator. (Proposal under review.)

E – Professional service

- Editorial duties
  - Associate Editor member of the Editorial Board of International Federation of Automatic Control (IFAC) journal Automatica (publisher: Elsevier).
  - Associate Editor member of the Editorial Board of the IEEE Transactions on Intelligent Transportation Systems (publisher: IEEE).
  - Associate Editor member of the Editorial Board of the 2019 IEEE Conference on Intelligent Transportation Systems (publisher: IEEE).
  - Associate Editor member of the Editorial Board of the 2019 IFAC Workshop on Time Delay Systems (publisher: Elsevier).
○ Associate Editor member of the Editorial Board of the 2019 IEEE International Conference on System Theory, Control and Computing (publisher: IEEE).

● Technical committees member
  ○ Member of the IEEE Control Systems Society Technical Committee on Distributed Parameter Systems.
  ○ Member of the IFAC Technical Committee on Transportation Systems.
  ○ Member of the IFAC Technical Committee on Distributed Parameter Systems.

● Workshop organization
  ○ Main organizer of the workshop Traffic Flow Control via PDE Techniques, organized within the 2018 IEEE Conference on Decision and Control.

● Reviewing activities
  ○ Performed 45 reviews of journal papers (including revisions) for:
    IEEE Transactions on Automatic Control
    IEEE Transactions on Intelligent Transportation Systems
    IFAC Automatica
    Society of Industrial and Applied Mathematics (SIAM) Journal on Control and Optimization
    Systems and Control Letters (publisher: Elsevier)
    IET Control Theory and Applications (publisher: IEEE)
    International Journal of Robust and Nonlinear Control (publisher: Wiley)
    International Journal of Systems Science (publisher: Taylor and Francis)
    IEEE Control Systems Letters
    Nonlinear Analysis: Hybrid Systems (publisher: Elsevier)
    KYBERNETIKA
    The Canadian Journal of Chemical Engineering (publisher: Wiley)
    Transportation Research Part B (publisher: Elsevier)
    Transportation Research Part C (publisher: Elsevier)

F – Service to the School and the University

● School responsibilities
Co-organizer of two invited seminars by Iasson Karafyllis (National Technical University of Athens) and Emilia Fridman (Tel Aviv University).

University responsibilities

- Member of the PhD dissertation examination committee of Kallirroi Porfyri, School of Production Engineering and Management.
- Member of equipment supply committee.
- Member of equipment delivery committee.

G – Advising

Graduate students supervised

- M.Sc. thesis completed (as distant co-advisor)
  1. Farjam Tajdari (Aalto University, Finland)

Undergraduate students supervised

- Diploma theses in progress (supervisor)
  1. Manolis Proestakis

- Diploma theses completed (supervisor)
  1. Argyris Tigkas
  2. Michalis Fanouriadis
Technical University of Crete
School of Electrical & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Aggelos Bletsas
Rank: Associate Professor (until Jan. 2019), Full Professor (Feb. 2019)
Years in rank: 5 in rank of Associate Prof., 0.5 in rank of Full Prof.
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught
  - TEL 303: Telecommunication Systems II (mandatory, 25 lectures +
    mandatory midterm + 10 problem sets)
  - TEL412 Analysis & Design (Synthesis) of Telecom Modules (elective,
    13 theory lectures + 10 labs taught by instructor)

- Graduate courses taught
  - TEL602 Detection & Estimation Theory (25 lectures + 5 problem sets)

B – Publications

- Publications in refereed journals
  1. Published:

- **Publications in refereed conferences**

  1. Published:

     - M. Ouroutzoglou and **A. Bletsas**, "Linear Complexity Noncoherent Miller Sequence Detection for Batteryless RFID/IoT", *53rd IEEE International Conference on Communications (ICC)*, May 2019, Shanghai, P.R. China.


- **Patents**

  - **Granted**

C – Awards & Distinctions


- June 2019: Groups’ research at international, high-circulation public press magazine *Scientific American*: “Internet of Plants: Scientists turn lemons into tiny ‘radio stations’ that signal when a tree needs watering”.

- Sept. 2018: inclusion in the 45 most influential Greek Researchers under the age of 45, compiled by Stanford’s Prof. J. Ioannidis (in the context of research on brain drain. Featured in front page of the highest circulation newspaper in Greece. Only 5 out of 45 work in Greek Institutions! Disclaimer: citation data are useful but they cannot (and should not) replace evaluation based on actually reading the content of the papers!)
D – Funded Projects

- Current projects:
  - “Ambient Backscatter Sensor Networks under Nonlinear Energy Harvesting”, funded through National Strategic Reference Framework (NSRF) - Praxi 34.
    Role: Project Coordinator.
  - “Intelligent Repeaters and Robots for Fast, Reliable, Low-Cost RFID Inventorying & Localization (RELIEF)”, funded through Action “Research-Create-Innovate, Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH - CREATE - INNOVATE (project code: T1EDK-03032).
    Role: TUC Principal Investigator.
  - “Ambiently-Powered Network Computers: Batteryless Internet-of-Things-That-Think (AMPERE)”, funded through Hellenic Foundation of Research & Innovation (HFRI), First Call for H.F.R.I. Research Projects to support Faculty members and Researchers and the Procurement of High-cost research equipment” (Project #: 2846).
    Role: Project Coordinator.

E – Professional service

- Associate Editor duties
  - Associate Editor, IEEE Transactions on Wireless Communications.

- Conference Technical Program Committee (TPC) service
  - IEEE International Conference on Communications (ICC) 2019 (Ad-hoc & Sensor Networks Track).
  - IEEE International Conference on Communications (ICC) 2019 (Mobile Wireless Networks Track).
  - IEEE International Conference on Communications (ICC) 2019 (Cognitive Radio & Networks Track).

- Reviewing activities
  - Reviewer for various class A IEEE Journals.

F – Service to the School and the University

- School/University responsibilities
  - Member of TUC Research Committee Objections Evaluation Committee.
o Substitute Member of the School of ECE Graduate Studies Committee.
o Member of the TUC Library Committee.
o Member of various TUC procurement committees.

G – Advising

• Diploma theses supervised as principal advisor – COMPLETED Diploma THESES:
  o Completed Diploma theses supervisor for
    1. Konstantinos Skyvalakis
    2. Evangelos Karatarakis
    3. Athanasios Topalis
    4. Michail Ouroutzoglou

• Ph.D., M.Sc. or Diploma theses principal advisor, in progress:
  Various students

• Ph.D., M.Sc. or Diploma theses committee member, completed or in progress:
  Various students
Name: George Karystinos  
Rank: Professor  
Years in rank: 1  
Full-time or part-time: Full-time  
Division: Telecommunications  
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught
  - TEL 201: Signals and Systems (mandatory)
  - TEL 416: Information Theory and Coding (elective)

- Graduate courses taught
  - TEL 614: Coding Theory

B – Publications

- Publications in refereed journals
  - Submitted: those published (see below), plus
  - Accepted: those published (see below)
  - Published:

D – Funded Projects

- Current projects:

E – Professional service

• Society Technical Committee duties
  o Programme Committee Expert, European Research Council (ERC), Future and Emerging Technologies (FET), and Marie Skłodowska-Curie Actions (MSCA) Programme Committee, European Commission’s Horizon2020 Framework Programme, 2019 - present.

F – Service to the School and the University

• University responsibilities
  o Member of the Research Committee, Technical University of Crete, 2017 - present.
  o Member of the Board of Directors, Property Development and Management Company, Technical University of Crete, 2015 - present.

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ Fountzoulas Ioannis (Ph.D.)
    ▪ Koupatsiaris Dimitrios (Ph.D.)
    ▪ Grypiotis Ioannis (M.Sc.)
  o Ph.D. and M.Sc. Degrees in progress (committee member)
    ▪ Giannelos Evangelos (Ph.D.)
    ▪ Vougioukas Georgios (Ph.D.)
    ▪ Karakasis Paris (M.Sc.)
    ▪ Logothetis Fragkoulis (M.Sc.)
    ▪ Siaminou Ioanna (M.Sc.)
    ▪ Skyvalakis Konstantinos (M.Sc.)

• Undergraduate students supervised
  o Diploma theses in progress
    ▪ Dafoulis Nikolaos
    ▪ Nasoulis Nikolaos
    ▪ Theofilou Eleni
    ▪ Vasilopoulos Alkiviadis
  o Diploma theses completed (supervisor)
- Delis Georgios
- Grypiotis Ioannis
- Papaioannou Dimitrios
- Sgourakis Andreas
- Tazes Athanasios
- Zafiriou Odysseas

**Diploma theses in progress (committee member)**
- Boras Charalampos
- Iliadis Stylianos
- Kolomvakis Christos
- Papagiannakos Ioannis-Marios
- Paschalidou Christina
- Tsekos Nikolaos

**Diploma theses completed (committee member)**
- Giariskanis Fotios
- Logothetis Fragkoulis
- Ouroutzoglou Michail
- Pouros Spyridon
- Siaminou Ioanna
- Skyvalakis Konstantinos
- Topalis Athanasios
Name: Liavas Athanasios  
Rank: Professor  
Years in rank: Nine (9)  
Full-time or part-time: Full-time  
Division: Telecommunications  
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught
  - TEL 301 Telecommunications Systems I (mandatory)
  - TEL 417 Wireless Communications
  - TEL 413 Convex Optimization (X-listed)

- Graduate courses taught
  - TEL 413 Convex Optimization (X-listed)

- Curriculum & course development
  - New exercises Convex Optimization
  - Lecture notes on Convex Optimization (updated)

B – Publications

- Publications in refereed journals
  - Published:

D – Funded Projects

- Current projects:
o PARTENSOR: Parallel algorithms for very large tensor processing, (T1ΕΔΚ-3360), Project Coordinator (2018-2021)

E – Professional service

● Reviewing activities

F – Service to the School and the University

● School – level responsibilities
  o Dean School ECE, TUC

● University responsibilities
  o Member of the Senate of the Technical University of Crete

G – Advising

● Active graduate students supervised
  o Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ Aleksandros Georgogiannis (PhD Student)
    ▪ Paris Karakasis (MSc Student)

● Undergraduate students supervised
  o Diploma theses in progress
    ▪ Ioanna Siaminou
    ▪ Ioannis-Marios Papagiannakos
    ▪ Christos Kolomvakis
Technical University of Crete
School of Electrical & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2018 to Aug. 31, 2019

Name: Michael Paterakis
Rank: Professor
Years in rank: 20
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Information and Computer Networks Laboratory

A – Teaching

● Undergraduate courses taught
  o TEL 202: Probability and Random Signals (Mandatory)
  o TEL 401: Computer Networks I (Mandatory)

● Graduate courses taught
  o TEL 601: Probability Theory and Stochastic Processes

D – Funded Projects

● Current projects:
  o Independent Auditor for the Project: "Development of Broadband Infrastructure in Rural "White" Areas of Greek Territory and Operations Services – Development of Infrastructure", Public Private Partnerships Project. Funded for the period 1/1/2015 – 31/12/2031 by the special purpose entities “OTE Rural North” and “OTE Rural South”. Budget: 1.843.208 €.

E – Professional Service
June 2016 – June 2019. Member of the Board of Directors, Greek Universities Network (GUnet), a no-profit company founded by all the Greek Academic Institutions.

F – Service to the School and the University

- School responsibilities
  - 2013 - , Member, Graduate Committee, ECE School, Technical University of Crete.
  - 2017 - , Member of the Deanery, ECE School, Technical University of Crete.
  - 2019 – 2022, Director, Information and Computer Networks Laboratory, ECE School, Technical University of Crete.

- University responsibilities
  - June 2013 – June 2021, Director and Chairman of the Board, Telecommunication Systems Research Institute (T.S.I.), Technical University of Crete.
  - 2013 - , Member of the Quality Assurance Unit for Higher Education, Technical University of Crete.
  - 2017 - , Deputy Member of the University Senate.

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. Degrees in progress (supervisor)
    - Sofikitis Emmanuel (M.Sc.)
  - Ph.D. and M.Sc. Degrees in progress (committee member)
    - Skyvalakos Konstantinos

- Undergraduate students supervised
  - Diploma theses completed (supervisor)
    - Motos Michael
  - Diploma theses completed (committee member)
- Skyvalakis Konstantinos
  
  o Diploma theses in progress (committee member)
    
    - Sioutas Apostolos
Annual Activity Report

_for the period: Sep. 1, 2018 to Aug. 31, 2019_

**Name:** Michalis Zervakis  
**Rank:** Professor  
**Years in rank:** 19  
**Full-time or part-time:** Full-time  
**Division:** Telecommunications  
**Lab affiliation:**  
1. Digital Image and Signal Processing Lab  
2. Lab of Automation  

A – Teaching

- Undergraduate courses taught  
  - TEL 302: Digital Signal Processing (mandatory)  
  - TEL 312: Digital Image Processing  
- Graduate courses taught  
  - TEL 312: Digital Image Processing (cross-listed)

B – Publications

- Publications in refereed journals  
  - Published:


Papadogiorgaki, M., Koliou, P., Zervakis, M.E., “Glioma growth modeling based on the effect of vital nutrients and metabolic products”, Medical and Biological Engineering and Computing, 56(9), pp. 1683-1697, Sept. 2018


- Publications in refereed conferences
  - Published:
Equipped Unmanned Aerial Vehicle (UAV)”, 2018 IEEE International Conference on Imaging Systems and Techniques (IST), Krakow, Poland, 2018

D – Funded Projects

• Current projects:
  o Automatic detection and localization of High frequency Oscillation in Paediatric Epilepsy (HOPE); Leader of ECE team for TUC, Funding Agency: H2020- Marie Skłodowska-Curie Actions Research and Innovation Staff Exchange (RISE)
  o ΥΠΟΥΡΓΕΙΟ ΑΓΡΟΤΙΚΗΣ ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΤΡΟΦΙΜΩΝ, “ΚΑΙΝΟΤΟΜΙΑ ΣΤΗΝ ΥΔΑΤΟΚΑΛΛΙΕΡΓΕΙΑ”, «Εφαρμογή έξυπνων συστημάτων για τη βελτίωση της διαχείρισης και της ευξωίας των ψαριών σε συνθήκες καλλιέργειας σε κλωβούς (iFish)»
  o ΥΠΕΠΘ, ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΟ, «ΠΡΟΤΥΠΕΣ ΥΠΗΡΕΣΙΕΣ ΙΑΤΡΙΚΗΣ ΑΞΙΟΛΟΓΗΣΗ, ΠΡΟΛΗΨΗΣ ΚΑΙ ΔΙΑΣΤΡΟΜΑΤΩΣΗ ΣΤΡΑΤΕΥΣΙΜΩΝ ΚΑΙ ΕΚΤΙΜΗΣΗ ΔΕΙΚΤΩΝ ΥΓΕΙΑΣ (e-Mass)»
  o ΥΠΕΠΘ, ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΟ, Προηγμένο Σύστημα Πρόληψης Επικίνδυνων Καταστάσεων για Βρέφη - χ (επι) ΒΛΕΨΗΣ»
  o ΥΠΕΠΘ, ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΟ, «Αυτόνομο ρομποτικό σύστημα για ανακύκλωση αστικών απορριμμάτων (ANASA)»
  o ΥΠΕΠΘ, ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΟ, «Εξυπνή Τεχνολογία Drones - (MARS)»

• Project proposals submitted:
  o ‘Analysis, Evaluation and Documentation of life-changing Effects in Coastal Cities due to progressive Environmental changes – DEClIsE’ (Project Index No.: 2018-1-0586) @ EEA and Norway Grants Fund for Regional Cooperation, CALL FOR PROPOSALS - CONCEPT NOTE, Common Challenges – Shared Solutions Call no. . 2018-1, Publication date: 24/01/2018
  o ‘Σύστημα Υποστήριξης Ποιότητας Ζωής για Ατόμα με Νοητική Αναπηρία – QuaLiSID’ @ T2ΕΔΚ
  o ‘Καινοτόμο Ετερογενές Παράλληλο Σύστημα Παρακολούθησης Αυτοκινητοδρόμων – ΚΑΪΣΑΡΑΣ (KAISARAS)’ @ T2ΕΔΚ
  o ‘Ολοκληρωμένο Σύστημα ευφυούς παρακολούθησης για την υποστήριξη της Φυτοπροστασίας ακριβείας στην Αμπελοκαλλιέργεια Ο.Σ.Φ.Α. (S.D.M.V.)’ @ T2ΕΔΚ
  o ‘Συνεργασία για την προστασία, αξιολόγηση και ανάδειξη σπάνιων γηγενών ποικιλιών αμπέλου της Βορείου Ελλάδας - VineProVal’ @ T2ΕΔΚ
  o ‘Πρωτότυπο Σύστημα Μετρήσεων Επιφάνειας Οδοστρώματος (ΠΡΩΤΕΑΣ)’ @ T2ΕΔΚ
  o ‘Αυτοματοποιημένη εποπτεία εναέριας λήψης του Ελληνικού Δικτύου γραμμών μεταφοράς ρεύματος - AdVISEr’ @ T2ΕΔΚ
E – Professional service

- Associate Editor duties
  - **Associate Editor**, since 1/1/2017, Journal of Biomedical Signal Processing and Control, [https://ees.elsevier.com/bspc](https://ees.elsevier.com/bspc)
  - **Associate Editor**, since 1/1/2017, IEEE Journal of Biomedical and Health Informatics, [http://jbhi.embs.org/editorial-board/associate-editors/](http://jbhi.embs.org/editorial-board/associate-editors/)

- Society Technical Committee duties
  - Technical Committee co-chair, IEEE Instrumentation and Measurement Society, TC-19 Imaging Measurements and Systems, since 20/1/2017

- Conference Technical Program Committee service

- Reviewing activities

F – Service to the School and the University

- School responsibilities
  - Vice-Rector of Research and Life-long Learning, TUC
  - Digital Image and Signal Processing Laboratory, Director
  - Automation Laboratory, Director
• University responsibilities
  o President of ELKE
  o Member of the Senate, TUC

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students completed (supervisor)
    ▪ Ntiniakou Thalia (M.Sc.)
  o Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ Liaba Irini (Ph.D.)
    ▪ Livanos Georgios (Ph.D.)
    ▪ Mirogiorgou Constantia (Ph.D.)
    ▪ Paterkaki Eleni (M.Sc.)
    ▪ Tsakaneli Stavroula (M.Sc.)
  o Ph.D. και M.Sc. completed (committee member)
    ▪ Giakoumakis P.
    ▪ Karakasis P.
  o Ph.D. και M.Sc. in progress (committee member)
    ▪ Various students

• Undergraduate students supervised
  o completed (supervisor)
    ▪ Klados G.
    ▪ Patrikas A.
    ▪ Torakis I.
    ▪ Chasapas K.
    ▪ Fanouriadis M.
    ▪ Sfiris N.
    ▪ Vardaxis I.
    ▪ Brelas I.
    ▪ Politof K.
    ▪ Kontzedakis D.
    ▪ Chatziparaschis D.
    ▪ Ntoko A.
    ▪ Lemonis I.
  o In progress (supervisor)
    ▪ Tsichlis I.
- Paschalidou C.
- Tsekos N.
- Zompas A.

  - Completed (committee member)
    - Various students
Name: Dimitris Angelakis
Rank: Associate Professor
Years in rank: 3
Full-time or part-time: Full-time, spring semester (fall semester on leave, Centre at Quantum Technologies, National University of Singapore)

A – Teaching

- Undergraduate courses taught
  - FYS 102: Physics (Electromagnetism) (mandatory)
  - FYS 411: Quantum Technology
  - Physics II, School of Mineral Resources Engineering

- Graduate courses taught
  - FYS 602: Quantum Technology (FYS 602 – x-listed with FYS 411)

- Curriculum & course development
  1. Lecture notes / slides developed
     - Updated “An introduction to quantum computing for FYS 411 and FYS 602”
     - Updated “Lectures slides for Physics 102”

B – Publications

- Publications in refereed journals
  1. Accepted:

  2. Published:


- Books and edited book chapters


C – Awards & Distinctions

- Invited Research Professor Centre at Quantum Technologies, National University of Singapore September 2018 to January 2019

D – Funded Projects

- Current projects: Ministry of Education, Greece, Funding for Greek-Russia Bilateral Collaboration in Quantum Technologies. Participating PI with budget 56K Euros, total proposal budget 496K Euros

E – Professional service

- Associate Editor duties
  - Member of the editorial board of European Physical Journal: Quantum Technology, Springer, since 2014
  - Member of the editorial board of Advanced Quantum Technology, Wiley, since 2018

- Society Technical Committee duties
  - Member of the Management Committee, the Core group and WG4 deputy leader for the EU COST Action "Nanoscale Quantum Optics", 2014-2018

- Conference Technical Program Committee service
Program committee member, 20th International Conference on Physics of Light-Matter Coupling in Nanostructures (PLMCN 2019), Moscow, July 2-6 2019

Program committee, AQIS18, 18th Asian Quantum Information Science Conference, http://aqis-conf.org/2018/, Nagoya Japan, September 8-12, 2018

- Reviewing activities
  - Referee for research proposals submitted to: the EU ERC Starting Grant scheme, the EU ERC Consolidator Grant scheme, the European Young Investigators Award Scheme, the Netherlands Organization for Scientific Research, Swiss Research Council, Polish Research Council, Austrian Research Council, the FET open Proactive Call H2020

Invited and Keynote talks in international conferences and advanced schools


3. “Quantum simulators with near scale devices”, 8th International Conference on Quantum Information, Tehran, Iran September 2018 (Keynote)

F – Service to the School and the University

- University responsibilities
  - Participation in TUC Open Day
  - Participation in Science Day for primary school students

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. theses in progress (supervisor)
    - Kalogerakis Michalis (Ph.D.)
    - Shetakis Nikolaos (Ph.D.)
  - Ph.D. and M.Sc. Degrees completed (committee member)
    - Konstantakis Christos (Ph.D.)
  - Ph.D. and M.Sc. Degrees in progress (committee member)
    - Bassford Michalis – Dimitris (Ph.D.)
    - Moutzianou Georgios (Ph.D.)
• Undergraduate students supervised
  
  o Diploma theses in progress
    ▪ Skordias Themistoklis, ECE TUC, “Quantum machine learning and applications”
    ▪ Politis Alexandros, ECE, TUC, “Variational hybrid quantum-classical algorithms and photonic implementations”
  
  o Diploma theses completed (committee member)
    ▪ Devetzakis Georgios
    ▪ Vardakis Konstantinos
Name: Demosthenes Ellinas
Rank: Professor
Years in rank: Full-time
Full-time or part-time: Full-time

A – Teaching

- Undergraduate courses taught
  - MATH 311 Quantum Information: An introduction
  - MATH 102 Linear Algebra (mandatory)
  - MATH 111 Discrete Mathematics
- Graduate courses taught
  - MATH 601 Quantum Information: An introduction

B – Publications

- Publications in refereed journals
  - Published:

E – Professional service

- Associate Editor duties
  - Quantum Reports (editorial board)
  - Journal of King Saud University - Science (associate editor) (Elsevier)
  - Sci (editorial board)
- Reviewing activities
  - Journal of Physics A: Mathematical and Theoretical Physics
  - Entropy
F – Service to the School and the University

- University responsibilities
  - Member of the Board of Directors, Property Development and Management Company, Technical University of Crete, 2015 - present.

G – Advising

- Diploma thesis advisor (June 2019)
  - Konstantinos Vardakis, “Iterative Compression Algorithm of Quantum Entanglement”.
Name: Daphne Manoussaki
Rank: Assistant Professor
Years in rank: 13
Full-time or part-time: Full

A – Teaching

During this academic year I was on sabbatical.

I only taught a series of lectures/seminars (4 hours per week for 8 weeks) on Mathematical Biology (University of Athens Medical School).

D – Funded Projects

“Pressure measurements in the endolymphatic sac”, funded as an NIDCD intramural research project.

F – Service to the School and the University

On sabbatical during 2018-19

G – Advising

• Undergraduate students supervised
  o Diploma theses completed (supervisor)
    ▪ Golfidis Antonios-Andreas
  o Diploma theses completed (committee member)
    ▪ Grypiotis Ioannis
Name: Minos Petrakis
Rank: Associate Professor
Years in rank: 3,5
Full-time or part-time: Full-time

A – Teaching

• Undergraduate courses taught
  o MATH 102 : Mathematics II (mandatory)
  o MATH 107 : Probability Theory – Statistics (mandatory)

• Graduate courses taught
  o Σειρες Fourier και Μιγαδικη Ανάλυση
  o Εφαρμοσμένη Συναρτησιακή Ανάλυση

E – Professional service

• Reviewing activities
  Reviews for zentralblatt-math

F – Service to the School and the University

• School – level responsibilities

• University responsibilities

G – Advising

• Undergraduate students supervised
  o Diploma theses in progress: 2
**Annual Activity Report**

*For the period: Sep. 1, 2018 to Aug. 31, 2019*

**Name:** Stavros Christodoulakis  
**Rank:** Emeritus Professor

### B – Publications

- Publications in refereed conferences
  - Accepted:
  - Published:

### D – Funded Projects

[joint work with School of ECE Scientific Personnel  
G. Anestis, P. Arapi, N. Gioldasis, I. Maragoudakis, N. Moumoutzis, N. Pappas]
Current projects:

- **[CARAVAN NEXT]** “Feed the Future: Art moving cities”
  - Budget: € 300.020
  - Duration: 1/9/2015 - 28/2/2019
  - Project Type: Creative Europe Culture / Cooperation

- **[DISCOVER]** “Developing Innovative Science Outreach for Vocational Education to Encourage STEM Careers and Education”
  - Budget: € 37.597
  - Duration: 1/10/2017 - 30/9/2019
  - Project Type: ERASMUS+

- **[G4M]** «Ανάπτυξη Πλατφόρμας Δημιουργίας και Αναπαραγωγής Ψηφιακών Παιχνιδιών για την Προώθηση Προϊόντων και Υπηρεσιών»
  - Budget: € 198.786,27 €
  - Duration: 15/3/2019 - 14/3/2022
  - Project Type: ΕΣΠΑ

- **[MILAN]** “Multifunctional Innovative Learning Assisting Network for VET in Advanced Manufacturing”
  - Budget: € 77.765,00
  - Duration: 1/11/2018 - 30/4/2021
  - Project Type: ERASMUS+

- **[TIM]** “Theatre in Mathematics”
  - Budget: € 64.159,00
  - Duration: 1/9/2018 - 31/8/2021
  - Project Type: ERASMUS+

- **[MUSILIB]** “Music for children’s multicultural learning”
  - Budget: € 32.710,00
  - Duration: 1/9/2018 - 28/2/2021
  - Project Type: ERASMUS+

- **[Rythm4inclusion]** “Promoting Social, Emotional, and Learning Skills of Students with and without Special Education Needs by Developing Teachers’ Capabilities in Music, Dance and Digital Competences”
  - Budget: € 54.785,00
  - Duration: 1/9/2018 - 31/8/2021
  - Project Type: ERASMUS+

- **[MechMate]** “Strategic Partnership in the field of Mechatronics for innovative and smart growth of European manufacturing SMEs”
  - Budget: € 62.683
  - Duration: 1/11/2016 - 31/12/2018
  - Project Type: ERASMUS+
Erasmus+/Key Action 2 – Strategic Partnerships
"Technology for Industry for teachers and trainers for vocational education"
Coordinator: Technical University of Kosice - TUKE, Slovakia
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