Key Statistics for Sep. 2019 – Aug. 2020

Total statistics
Journals Published: 49
Conferences Published: 65
Book Chapters: 5
Patents: 1
Diploma thesis: 106
MSc Thesis: 10
PhD Thesis: 4
Projects: 83

Average statistics (per faculty)
Journals Published: 1.96
Conferences Published: 2.6
Book Chapters: 0.2
Patents: 0.04
Diploma thesis: 4.24
MSc Thesis: 0.4
PhD Thesis: 0.16
Projects: 3.32
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
- Ioannidis Sotiris, Associate Professor
- Kalaitzakis Kostas, Professor
- Kanellos Fotios, Associate Professor
- Koutroulis Efthichios, Associate Professor
- Stavrakakis Georgios, Professor

**Systems Division**
- Bekiaris-Lymperis Nikolaos, Assistant Professor

**Telecommunications Division**
- Bletsas Aggelos, Professor
- Digalakis Vassilios, Professor - on leave
- Karystinos George, 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, 2019 to Aug. 31, 2020

Name: Georgios Chalkiadakis  
Rank: Associate Professor  
Years in rank: 4.5  
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

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

B – Publications

- Publications in refereed journals

- Publications in refereed conferences
D – Funded Projects

- Current projects:
  - **Project “PISMA” (“Automating Pistachio Canopy Temperature Identification: A Machine Learning Approach”).** A research project focusing on developing novel image recognition and machine learning techniques for precision irrigation scheduling. The project was carried out by Georgios’ team at the School of ECE-TUC, while subcontracting to California State University, Fresno Foundation, USA. **Georgios’ role:** Georgios was the Principal Investigator for the Technical University of Crete team. **Duration:** 2020-2021
  - **Project “TrafficFluid”.** An ERC Advanced Grant project aspiring to develop a novel lane-free traffic paradigm in the ear of connected automated vehicles, awarded to and led by Professor Markos Papageorgiou. [https://www.trafficfluid.tuc.gr/index.php?id=11785](https://www.trafficfluid.tuc.gr/index.php?id=11785)
    - **Georgios’ role:** Georgios is a senior research team member, conducting research on employing AI and Multiagent Learning methods for lane-free traffic, and co-supervising a PhD student to this end. **Duration:** 2019-2024
  - **Project “ANASA” (“Autonomous Robotic System for Urban Waste Recycling”).** A national (co-funded by the EU) 48-month project. **Role:** Georgios is a research team member, directly supervising a graduate student working for the project. **Duration:** 2018-2022
  - **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

- Project proposals submitted:
  - Submitted a proposal to H.F.R.I. (ELIDEK)
  - Participated as a partner in a CHIST-ERA (ERA-NET Cofund) proposal

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 Chair and Organizer
  - Co-organizer and co-Chair of the **AAAI-2020 Workshop on Artificial Intelligence in Team Sports** (**AITS@AAAI-2020**), New York, USA, Feb 2020.

- Conference **Senior** Technical Program Committee service
  - The 19th International Conference on Autonomous Agents and Multiagent Systems, Auckland, New Zealand, May 2020 (**AAMAS-20**).

- Conference Technical Program Committee service
  - The 11th Hellenic Conference on Artificial Intelligence, virtual, held in September 2020 (**SETN-2020**).

- Reviewing activities
  - Reviewer for the conferences I was a Program Committee member at (mentioned above)
  - 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
F – Service to the Department and the School

• School-level responsibilities
  o Member of a committee approving the purchase of research equipment

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students completed (supervisor)
    ▪ Chliaoutakis Aggelos (Ph.D.)
  o Ph.D. and M.Sc. theses in progress (supervisor)
    1. Troullinos Dimitrios (Ph.D.) [co-supervised with M. Papageorgiou]
    2. Tripolitakis Evaggelos (Ph.D.)
    3. Kydonakis Ares (M.Sc.)
    4. Antonios Vogiatzis (M.Sc.)
    5. Trigkas Nikolaos (M.Sc.)

• Undergraduate students supervised
  o Diploma theses (MEng level) completed (supervisor)
    1. Mpacharisi Athanasios
    2. Portokalakis Petros
    3. Katsigiannis Michail
    4. Pantelidakis Minas
    5. Apostolidou Maria
    6. Ziogas Ioannis-Panagiotis
    7. Papathanasiou Theodoros
    8. Theodoridis Alexios
Name: Antonios Deligiannakis
Rank: Associate Professor
Years in rank: 7
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 211 : Software Development Tools and Systems Programming

- Graduate courses taught
  - COMP 613 : Special Issues in Database Systems

- Labs taught

- Curriculum & course development
  - New courses / labs developed
    - COMP 211 : Software Development Tools and Systems Programming
  - Lecture notes / slides developed
    - COMP 211 : Software Development Tools and Systems Programming
  - Authored textbooks

B – Publications

- Publications in refereed journals
  - Submitted: those published/appeared (see below)
    - 
  - Accepted:

- Published:

- Publications in refereed conferences
  - Submitted: those published/appeared (see below)
    - Antonis Kontaxakis, Nikos Giatrakos, Antonios Deligiannakis: A Synopses Data Engine for Interactive Extreme-Scale Analytics. ACM CIKM 2020: 3389-3392
  - Accepted:
  - Published:

- Books and edited book chapters
• Patents
  o GRANTED

1. C – Awards & Distinctions

• Best Demo Paper Award – ACM CIKM 2020, for the paper “INforE: Interactive Cross-platform Analytics for Everyone.”

D – Funded Projects

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

• Project proposals submitted:

E – Professional service

• Associate Editor duties

• Society Technical Committee duties

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

• Conference Organization (specify role):

• Reviewing activities
  o VLDB Journal
  o IEEE Transactions on Knowledge and Data Engineering (TKDE)
  o Big Data Research (ELSEVIER)
  o ACM Transactions on Database Systems (ACM TODS)

F – Service to the School and the University

• School responsibilities
  o Undergraduate students advisor for 6th semester students

• University responsibilities

G – Advising
• Active graduate students supervised
  
  o Ph.D. and M.Sc. students completed (supervisor)
    ▪ Kontaxakis Antonios (M.Sc)
  
  o Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ Flouris Ioannis (Ph.D.)
    ▪ Bitsakis Theodoros (M.Sc)
  
  o Ph.D. and M.Sc. Degrees completed (committee member)
    
  o 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
  
  o Diploma theses in progress
    ▪ Giannopoulos Emmanuel
    ▪ Fragkakis Panteleimon
    ▪ Kyriakidou Ioanna
    ▪ Papageorgiou Dimitrios
    ▪ Petheriotis Angelos
    ▪ Vasilaki Anastasia
    ▪ Pikionis Petros-Platon
    ▪ Petheriotis Aggelos
    ▪ Ntelmpizis Asterios
  
  o Diploma theses completed (supervisor)
    ▪ Efrosyni Anesti
    ▪ Goutziouli Dimitra
  
  o Diploma theses in progress (committee member)
    ▪ Balambanis Illias
- Epoure Edouard
- Plataniotis Stergios
- Methymakis Michail

- Diploma theses completed (committee member)
  - Giannakopoulos Konstantinos Orestis
  - Kampioti Sofia
  - Xanthakis Emmanouil
  - Apostolakis Georgios
  - Theodoridis Alexios
  - Zacharioudakis Christos
  - Karageorgiou Kanin Christos
  - Karavasiliou Ekaterini
  - Zacharia Neofytos
  - Gionis Nikolaos
  - Botonakis Stylianos
  - Ziogas Ioannis Panagiotis
  - Tzavaras Emilios
  - Polychronakis Andreas
  - Motos Michail
  - Efremidis Michail
  - Demertzis Rafail Athanasios
  - Gemistos Michail
  - Smyrneos Dimitrios
  - Vratsanos Georgios
Technical University of Crete
School of Electronic & Computer Engineering
Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Minos Garofalakis
Rank: Professor
Years in rank: 11
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: SoftNet – Software Technology and Network Applications Laboratory (Director)

A – Teaching

- Undergraduate courses taught
  - COMP 401: Algorithms and Complexity (mandatory)

- Graduate courses taught
  - COMP 615: Processing and Analyzing Big Data

B – Publications

- Publications in refereed journals

  - Published:

• Publications in refereed conferences
  o Published:

C – Awards & Distinctions

▪ **Invited Speaker:** “With Big Data Comes Big Responsibility: Towards Private Data Analytics at Scale”, Human Brain Project Open Day (Session on “Big Data and Computational Neuroscience”), Athens, Greece, February 2020.

D – Funded Projects

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

E – Professional service

• Conference Organization (specify role)
  ▪ **Co-Chair:** 3rd ACM Europe Summer School on Data Science (Athens, Greece, July 2019)
F – Service to the School and the University

- School – level responsibilities
  - Software Technology and Network Applications Laboratory, Director

G – Advising

- Undergraduate students supervised
  - Diploma theses completed (supervisor)
    - Rafail-Athanasios Demertzis (“Efficient Multi-dimensional Range Searchable Encryption for Large Databases”, TUC, September 2019)
    - Christos Zaharioudakis (“Large-Scale Differentially-Private Data Synthesis”, TUC, February 2020)
Technical University of Crete
School of Electrical & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Michail G. Lagoudakis
Rank: Associate 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 513: Autonomous Agents (elective, fall semester)
  - COMP 402: Theory of Computation (mandatory, spring semester)

B – Publications

- Publications in refereed conferences

  - Published

D – Funded 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:
Diploma Theses Completed

1. Nikolaos Lytridis, defended on August 19, 2020
   A Deep Machine Learning Architecture for Filtering and Classification of Motor Imagery EEG Data

2. Emmanouil Xanthakis, defended on August 18, 2020
   Development of a Web-Based Information System for the Documentation and Exploitation of the Learning Outcomes of University Courses

3. Georgios Gligoris, defended on August 6, 2020
   Argumentation and Reasoning on the Computational Cloud

4. Georgios Dialektakis, defended on July 28, 2020
   Adversarial Learning in Statistical Dialogue Systems

5. Georgios Bolonakis, defended on February 13, 2020
   Development of an Autonomous Robotic Rover for Collaborative Drone-Rover Monitoring Missions

6. Anastasios Karageorgiadis, defended on October 10, 2019
   FACESiR: Face and Speaker Identity Recognition in Video Streams

7. Nadia-Ethfimia Frehat, defended on October 9, 2019
   Exploring Efficiency and Performance of Image Captioning

8. Michail Gemistos, defended on October 8, 2019
   Implementation of Intelligent Agent for the AIBIRDS Competition

9. Emmanouil Kritharakis, defended on October 7, 2019
   Multi-Document Text Summarization

MSc Theses Completed

1. Ioannis Skoulakis, defended on October 30, 2019
   Efficient Reinforcement Learning in Alternating Games

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

MSc Theses in Progress

1. Vasileios Sfakianakis
   Human Activity Recognition from Drone Aerial Images

2. Emmanouil Orfanoudakis
   Event Recognition in Underwater Robot Team Missions

3. Eleftherios Chatzilaris
   Coordinated Action and Learning in RoboCup

Diploma Theses in Progress: more than 20 students

Ph.D., M.Sc. or Diploma theses committee member:

Completed

1. Angelos Chliaoutakis, Ph.D. defended on March 02, 2020
   School of ECE, Technical University of Crete
   Agent-Based Modeling of Past Societies and their Social Organization

2. Anastasios Chatziioannou, M.Sc. defended on June 2, 2020
   School of ECE, Technical University of Crete
   A Tomographic Hyperspectral Imaging Method: Application in Quantitative Pathology

Many diploma thesis students

In Progress

Various students
Name: Katerina Mania
Rank: Associate Professor
Years in rank: 7 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 (On sabbatical Spring 2020)

- Undergraduate courses taught

- Curriculum & course development
  - Updated laboratory exercises for COMP 101

B – Publications

- Publications in refereed journals
  - Published

- Publications in refereed conferences
  - Published


• Kirakosian, S., Maravelakis, E., & Mania, K. (2019, September). Immersive Simulation and Training of Person-to-3D Character Dance in Real-Time. In 2019 11th International Conference on Virtual Worlds and Games for Serious Applications (VS-Games) (pp. 1-4). IEEE.

C – Awards & Distinctions

D – Funded Projects

   o Project proposals submitted

   • ENCITO: Effects of climate change in the old city of Chania, Latsis Foundation, 2020-2021, PI Dr Lemonia Ragia, Research collaborator.
   • CREATOR: Collaborative Platform for Digital Content Repurposing, H2020
   • HUMANAISE: Humans and Artificial Intelligent, Social and Emotional Agents Learn Together, EU FET Proactive
   • TIMEPIECE: Active Immersive Platform for Scientists providing digital preserved content retrieval, HORIZON2020

   o Project proposals funded
• ‘G4M: Serious Gaming for Computer Aided Manufacturing’, call EYDE-ETAK ‘Research-Create-Innovate GSRT, PI

• ANCIENT KYDONIA HISTORY TOUR: Multimedia tour of ancient Kydonia through playful musical elements, using augmented reality technologies, call EYDE-ETAK ‘Research-Create-Innovate GSRT, 2020-2023, PI

• 3D4DELPHI: Modelling Archaeological Uncertainty by Combining Modern 3D Imaging for Scientific Documentation of Cultural Heritage: Application to the Archaeological Site of Delphi, Greece, call EYDE-ETAK ‘Research-Create-Innovate GSRT, 2020-2023, PI

• HAPTICS4SURGE: Haptic feedback in Virtual Reality Surgery Systems for Medical Education, call EYDE-ETAK ‘Research-Create-Innovate GSRT, 2020-2023, PI

• VARCITIES: Visionary Nature-based Actions for health, well-being & resilience in cities, HORIZON2020, PI and co-ordinator Assoc. Prof. Denia Kolokotsa, research collaborator

• AccelNet: Collaborative Research: An International Network of Networks for Wellbeing in the Built Environment (IN2WIBE), NSF, PI Prof. Panos Parthenios, research collaborator

E – Professional service

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

• Conference Technical Program Committee service – co-chair
  o IEEE Conference on Games 2020, co-chair of AR/VR program track

• Conference Technical Program Committee service - membership
  o IEEE Virtual Reality 2019, 2020 full paper conference track program committee
  o IEEE Conference on Games 2019, 2020
  o ACM Symposium on Applied Perception 2019, 2020
  o IEEE Int. Conf. in Games and Virtual Worlds for Serious Applications (VSGames), sponsored by IEEE, 2019, 2020
  o GALA 2019, 2020 (Games and Learning Alliance Conference)
  o IEEE AIVR 2020 (IEEE International Conference on Artificial Intelligence and Virtual Reality)
  o FDG 2020, Foundations of Digital Games 2020
• Reviewing activities
  o Various international conferences and journals

F – Service to the Department and the School

• School responsibilities
  o Member of Kosmiteia (School Council)
  o Member of the university-wide ERASMUS committee
  o Responsible for public relations for the School of ECE
  o Studies’ advisor for 1st year studies
  o Participation in the University ‘Science Day’ for primary school children, October 2019

G – Advising

• Active graduate students supervised
  o Graduate students supervised (completed)

  o Graduate students supervised (in progress)
    ▪ Andreas Polychronakis ‘Photorealistic 3D Reconstructions in Virtual and Augmented Reality’, Ph.D
    ▪ 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
    ▪ Katerina Malisova ‘Conceptual 3D Visualization Methodologies’, M.Eng

  o Diploma theses completed (supervisor)
    ▪ Alexandros Koukis ‘A mobile app which Automates the Creation Process for the E-Shadow platform’
    ▪ Minas Katsiokalis ‘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 Efraimidis ‘Wireless Embedded System based on a Glove for Hand Tracking and Sense of Touch in 3D Environments’

o Diploma theses supervised (in progress)
  • Giannis Kritikos ‘Interactive Documentary in Virtual Reality’
  • Algiannaki Maria ‘MusicCityX: Real-time 3D Interactive System for the Improvement of Urban Areas based on their Musical Footprint’
  • Nikos Mouzakitis ‘Interaction based on Gaze employing Eye-Tracking in Augmented Reality’
  • Dimitris Marinopoulos ‘PentAgRam: Collaborative Augmented Reality for Music Composition’
  • Anastasia Reboulaki ‘Visualization of Uncertainty’
  • Georgios Gerodidis ‘Development of 3D Animated Graphics in Unity based on Open-Source Motion Capture Data’
  • Michalis Methymakis ‘An Input Architecture for Hands Interaction for Immersive Virtual Reality Applications based on Mobile Platforms’
  • Antonis Danas ‘Interactive Implementation of Missions based on Graphics in Unity3D’

o Diploma theses in progress (committee member)
  • Dimos Christodoulopoulos
  • Dimitrios Oikonomidis
  • Marios Mavrakis
  • Savvas Chaitidis
  • Nikolaos Sfikas

o Diploma theses completed (committee member)
  • Stiliani Spiridaki
Name: Euripides G.M. Petrakis
Rank: Professor
Years in rank: 7
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
    - AIS 605: Special Topics in Information Systems

  - Lecture notes / slides developed
    - COMP518: Services in the Cloud and the Fog

  - Authored textbooks

B – Publications

- Publications in refereed journals
  - Submitted:
Accepted:
  ▪ See below

Published:


- Publications in refereed conferences

  Accepted:
  ▪ See below

  Published:


  ▪ Nikos Mainas and **Euripides G.M. Petrakis**, “*SOAS 3.0: *
Semantically Enriched OpenAPI 3.0 Descriptions and Ontology for REST Services”, 14th International Conference on Semantic Computing, San Diego, USA, February 3-5, 2020.

- Xenofon Koundourakis, **Euripides G.M. Petrakis**, "iXen: Content-driven Service Oriented Architecture for the Internet of Things in the Cloud", 11th International Conference on Ambient Systems, Networks and Technologies (ANT 2020), Warsaw, Poland, April 6-9, 2020.


- Books and edited book chapters


- Patents

**C – Awards & Distinctions**
- IEEE Senior Member, 2019

**D – Funded Projects**

- Current projects:
  - “BorderUAS: Semi-autonomous border surveillance platform combining next generation unmanned aerial vehicles with ultra-high-resolution multi-sensor surveillance payload” (2020-2023), HORIZON 2020 (H2020-BES-02-2019), Duration 36 months, Project budget €6,997,332, Budget for TUC: €735,625, Role in project: **Co-Principal Investigator (Co-PI).**
  - “MARS, sMart fArming with dRoneS”, (2018-2021), Ministry of Development, Greek 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:
  o Several proposals submitted in various Horizon2020, ESPA, Intereg Calls

E – Professional service

• Associate Editor duties
  o Member of the Editorial Board, Internet of Things Journal (Scopus and in WoS Science Citation Index of Clarivate).

• Society Technical Committee duties
  o Conference Technical Program Committee service
  o Session chair, International Conference on Advanced Information Networking and Applications (AINA), 2020 in sessions (a) AINA-S20: Services Computing and Data Centers and (b) AINA-S21: Internet of Things Security.
  o Program Committee (PC) member, International Conference on Advanced Information Networking and Applications (AINA), 2018-2021 (each year).
  o IoT Track Chair, Intern. Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN), 2018-2021 (each year).
  o Program Committee (PC) member, 12th International Conference on Ambient Systems, Networks and Technologies (ANT), 2021.
  o Program Committee (PC) member, 19th International Conference on Web Engineering (ICWE), 2019-2020 (each year).
  o Technical Program Committee (TPC) member and session chair, IEEE Bioinformatics and Bioengineering (IEEE BIBE), 2015 & 2019.
  o Technical Program Committee (TPC) member, IEEE Sarnoff Symposium (IEEE SARNOFF), NJ, USA, 2016-2019 (each year).

• 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
  • 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 – 2020)
• University responsibilities

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)
    ▪ Preventis Alexandros (M.Sc.)
    ▪ Thermolia Chryso (M.Sc.)
    ▪ Tsakos Konstantinos (M.Sc)
    ▪ Aimilios Tzavaras (M.Sc)
  o Ph.D. and M.Sc. degrees awarded (committee member)
    ▪ Angelos Hliaoutakis
  o 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
  o Many

• Diploma theses in progress (supervisor)
  ▪ Many (more than 10)

• Diploma theses completed (supervisor)
  ▪ Karageorgiou Kaneen C.: Methodology for designing GDPR compliant IoT applications, Diploma Thesis, School of Electrical


- Diploma theses in progress (committee member)
  - Many

- Diploma theses completed (committee member)
  - Many
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)

- 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)
  - Accepted:
  - Published:
● Publications in refereed conferences
  o Published:

● Patents
  o GRANTED
    1.

C – Awards & Distinctions

D – Funded Projects

● Current projects:

● Project proposals submitted:

E – Professional service

● Conference Technical Program Committee service
  o KDIR-2019 International Conference on Knowledge Discovery and Information Retrieval
  o EUSPN-19 International Conference on Emerging Ubiquitous Systems and Pervasive Networks

F – Service to the Department and the School

● Departmental responsibilities

● School – level responsibilities

G – Advising

● Active graduate students supervised
  o Ph.D. and M.Sc. students completed (supervisor)
  o Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ ΚΟΝΙΔΑΡΗΣ ΒΗΣΣΑΡΙΩΝ
- Ph.D. and M.Sc. Degrees completed (committee member)
- Ph.D. and M.Sc. Degrees in progress (committee member)
  - Vardoulakis Emmanuel (M.Sc.)
- Undergraduate students supervised
  - Diploma theses in progress
    - ΚΑΜΠΙΩΤΗ ΣΟΦΙΑ
    - ΜΠΑΛΑΜΠΑΝΗΣ ΗΛΙΑΣ
    - ΕΠΟΥΡΕ ΕΝΤΟΥΑΡΝΤ
    - ΜΠΑΡΑΚΟΣ ΠΑΝΑΓΙΩΤΗΣ
    - ΣΕΙΣΑΚΗ ΕΥΤΥΧΙΑ
  - Diploma theses completed (supervisor)
  - Diploma theses in progress (committee member)
  - Diploma theses completed (committee member)
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)

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

B – Publications

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

• Publications in refereed conferences
  o Published:

• Patents
C – Awards & Distinctions

- Beijing Institute of Technology, Distinguished Lecture Series
  - ‘Smart, ultra-wide band hyperspectral imaging for chemical/pathology mapping: Emerging applications in microscopy and in nondestructive analysis of artwork’, 20-21 November 2019, Beijing China

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 (Code: T1EDK-02591 - MIS: 5029725) funded by NSRF 2014-2010 Competitiveness, Entrepreneurship & Innovation, Action "RESEARCH - CREATE - INNOVATE" (QCELL)
  - XMMaS-Development of a coherent X-ray multispectral microscopy system (Code: T1EDK-04549 - MIS:5048516), funded by NSRF 2014-2010 Competitiveness, Entrepreneurship & Innovation, Action "RESEARCH - CREATE - INNOVATE"

- Project proposals submitted:

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

- Society Technical Committee duties
• Conference Technical Program Committee service
  o program committee of IEEE BIBE-2020 (20th IEEE Conference on Bioinformatics and Bioengineering -2020)

• Conference Organization (specify role)

• Reviewing activities
  o More than 10 reviews of Journal papers
  o Reviewer in ERC EU program

F – Service to the Department and the School

• Departmental responsibilities
  o Director of the Electronics Lab

• School – level responsibilities
  o Chairman of TUCs Innovation House

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised (advisor, completed)
    ▪ Chatziioannou Anastasios (M.Sc.)
    ▪ Logothetis Fragkoulis (M.Sc.)
  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Boras Charalambos (M.Sc.)
    ▪ Chousos Christos (M.Sc.)
    ▪ Markellos Dimitrios (Ph.D.)
    ▪ Rossos Christos (Ph.D.)
    ▪ Tsapras Athanasios (Ph.D.)
    ▪ Epitropou Giorgos (M.Sc.)

  o Ph.D. and M.Sc. degrees awarded (committee member)
  o Ph.D. and M.Sc. Degrees (committee member)
    ▪ Makris Nikolaos (Ph.D.)
    ▪ Nikolaou Aristides (Ph.D.)
    ▪ Kostopoulos Konstantinos (M.Sc.)
    ▪ Gkouvatsos Nikolaos (M.Sc.)
- Roumeliotis Michail (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Emmanouilidis Konstantinos
    - Vogiatzis Konstantinos
    - Nikoloulias Dimitrios-Marios
    - Tsiaousis Christos
    - Stefatos Gerasimos
    - Takas Panagiotis
  
  - Diploma theses completed (supervisor)
    - Pediaditis Dimitrios
    - Zacharopoulou Iliana
    - Mavrakis Marios
    - Spyridaki Styliani
  
  - Diploma theses in progress (committee member)
    - Gegkios Nikolaos
    - Gompaki Efstatia
    - Kokkonas Dimitrios
    - Pappas Nikolaos
    - Mouzakitis Nikolaos
  
  - Diploma theses completed (committee member)
    - Polychronakis Andreas
    - Gkouvatsos Nikolaos
    - Apostolakis Apostolos
    - Drakos Vissarios
Annual Activity Report
For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Matthias Bucher
Rank: Associate Professor
Years in rank: 6
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 2019)
  - ECE 416 – Design of CMOS Analog Integrated Circuits (Spring 2020)

- Graduate courses taught
  - ECE 604 – Special Themes of CMOS Analog Integrated Circuit Design (Spring 2020)

- Labs taught
  - ECE 301 – Electronics II (Fall 2019)
  - ECE 416 – Design of CMOS Analog Integrated Circuits (Spring 2020)

B – Publications

- Publications in refereed journals
  - Submitted:
    - N. Makris, M. Bucher, L. Chevas, F. Jazaeri, J.-M. Sallese, “Free Carrier Mobility, Series Resistance and Threshold Voltage
Extraction in Junction FETs", *IEEE Transactions on Electron Devices*.

- **Accepted:**

- **Published:**

- **Publications in refereed conferences**

C – Awards & Distinctions


D – Funded Projects
• Current projects:

• Project proposals submitted:
  o Erasmus Mundus Joint Master Degree (EMJMD) “Radiation and its Effects on MicroElectronics and Photonics Technologies” (RADMEP), 2-year European Master (120 ECTS), 2020. **Accepted.** ECE-TUC is an Associated Partner of RADMEP. [https://master-radmep.org/](https://master-radmep.org/)

• Development of Electronics Laboratory infrastructure:
  o Digital Oscilloscope, Keysight DSOX 1204G, 100 MHz.
  o Europractice annual subscription.
  o Cadence IC & System software.
  o Keysight ADS and IC-CAP software.

### E – Professional service

• Conference Technical Programme Committee service
  - **TPC member, 27th Int. Conf. on Mixed Design of Integrated Circuits and Systems (MIXDES 2020).**
  - **TPC member, 9th Int. Conf. on Modern Circuits and Systems Technologies (MOCAST 2020).**
  - **TPC member, Int. Conf. Micro-Nano 2020.**
  - **TPC member, PAnhellenic Conference on Electronics & Telecommunications (PACET 2019).**

• Reviewing activities
  - **IEEE Transactions on Electron Devices**
  - **IEEE Journal of the Electron Device Society**
  - **IEEE Electron Device Letters**

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

• Departmental responsibilities
  o Member of admission committee of undergraduate students.
  o Deputy Member of admission committee for postgraduate students.
G – Advising

- **Graduate students supervised**
  - Ph.D. theses completed (supervisor):
  - Ph.D. students supervised (supervisor):
  - Ph.D. students co-supervised:
- M.Sc. theses completed (supervisor):
- M.Sc. students supervised (supervisor):
  - Angelos Papadimitriou
  - Loukas Chevas
  - Alexia Papadopoulou
  - Konstantinos Kostopoulos

- **Undergraduate students supervised**
  - Diploma theses completed (supervisor):
  - Diploma students (supervisor):
    - Nikolaos Gkouvatsos
- Antonios Antonakakis
- Dimitrios Kokkonas
- Nikolaos Gegkios
- Nikolaos Pappas

  o Diploma theses completed (committee member):
Technical University of Crete
School of Electrical & Computer Engineering
Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Apostolos Dollas
Rank: Professor
Years in rank: 19
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Microprocessor and Hardware Laboratory

A – Teaching

- Undergraduate courses taught
  - ACE 201: Digital Computers (mandatory)
  - ACE 203: Advanced Logic Design (mandatory)

- Graduate courses taught
  - ACE 608: CAD Tool Development for Integrated Circuit Design

- Labs taught
  - Supervised the labs of ACE 201
  - Supervised the labs of ACE 203,
  - Administered (including examination and grading) all of the laboratory exercises and projects of ACE 608.

- Curriculum & course development
  - Lecture notes / slides developed
    - Revised most of the SPIM-based laboratory exercises of ACE 201.
    - Revised exercises for hands-on lab experience with Xilinx Spartan FPGA’s of ACE 203.
    - Revised the ACE 203 (Advanced Logic Design) class notes which were distributed in preliminary form through the web-based e-learning environment Webcourses.
    - Developed from scratch the laboratory exercises and projects of ACE 608, with completely new exercises and project.

B – Publications
• Publications in refereed journals

• Publications in refereed conferences (Published)

• Book Chapters

C – Awards & Distinctions

D – Funded Projects
• Current projects:
  o Principal Investigator for TUC, “Centre for the study and sustainable exploitation of Marine Biological Resources (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:
  o Senior Research Associate in the projects EPI_SGA1 and EuroEXA (CARV group, ICS/FORTH)

E – Professional service

• Conference Technical Program Committee service
  o Steering Committee and Program Committee member, IEEE/ACM 30th International Symposium on Field Programmable Logic (FPL), Gottenburg, Sweden, Aug. 31st – Sept. 4th (virtual conference due to the pandemic).
  o Steering Committee and Program Committee member, IEEE/ACM 31th International Symposium on Field Programmable Logic (FPL), Dresden, Germany, Aug. 30-Sept. 3, 2021.
  o Program Committee Member, 2019 International Conference on Field Programmable Technology (FPT, IEEE Sponsored), Tianjin, China, December 9-13, 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
  o 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
  o Faculty Advisor to the 1st semester students
  o Member of faculty election boards at:
    o the Technical University of Crete (multiple positions)
    o the National and Kapodistrian University of Athens
o the Aristotelian University of Thessaloniki
o the University of Thessaly (multiple positions)
o the Technological Educational Institute of the Peloponnese
o 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.
o Member of the evaluation committee for teaching experience of recent Ph.D. recipients (multiple committees).

- University responsibilities
  o Member of the Telecommunication Systems Institute’s (ITS) Board of Directors

G – Advising
- Active graduate students supervised
  o Ph.D. and M.Sc. theses completed (supervisor)
    ▪ Ioannou Aggelos (Ph.D.)
    ▪ Giakoumakis Pavlos (M.Sc.)
    ▪ Pekridis Georgios (M.Sc.)
  o Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ Malakonakis Pavlos (Ph.D.)
    ▪ Brokalakis Andreas (Ph.D.)
  o Ph.D. and M.Sc. Degrees completed (committee member)
    ▪ Giaourtas Michael (M.Sc. – Computer Science – Univ. of Crete)
    ▪ Linardos Christos (M.Sc. – Mineral Resources Engineering – TUC)
    ▪ Vasilakis Evangelos (Ph.D, Chalmers U. – Sweden)
  o Ph.D. and M.Sc. Degrees in progress (committee member)
    ▪ Charitopoulos Georgios (Ph.D.)
    ▪ Vatsolakis Charalampos (Ph.D.)
    ▪ Amourgianos-Lorentzos Vasilios (M.Sc.)
    ▪ Tsakaneli Stavroula (M.Sc.)

- Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    ▪ Ampatzidis Konstantinos
    ▪ Argyriou Maria
    ▪ Bokalidis Anastasios
    ▪ Charokopos Zisis
    ▪ Fleggas Georgios
    ▪ Fotakis Tzanis
    ▪ Galanos Georgios
- Galatianos Georgios
- Iliaki Anastasia
- Kalomiris Ioannis
- Kokkinis Iraklis - Taxiarchis
- Konstantopoulos Konstantinos
- Kordas Sotiris
- Lykos Emmanouil
- Makris Ioannis
- Manolis Nikolaos
- Marinaki Eftihia
- Metai Edritt
- Morianos Ioannis
- Ntafi Eirini
- Palaiologk Chariton
- Poupakis Alexandros
- Robogiannakis Emmanouil-Eleftherios
- Sotiropoulos Antonios
- Skoufis Charalampos
- Spyridakis Christos
- Stavgianoudakis Christos
- Theodoris Charalampos
- Theodoroglaki Ioanna
- Zacheilas Theofilos

- Diploma theses completed (supervisor)
  - Badogiannis Nikolaos
  - Chatzidaki Eleftheria
  - Fotinopoulos Georgios
  - Kasfikis Konstantinos
  - Katsoudas Panagiotis
  - Kyparissas Nikolaos
  - Loukas Charisios
  - Souflakis Emmanouil

- Diploma theses in progress (committee member)
  - Andronikidis Georgios
  - Androulakis Dimitrios
  - Athanasiou Vasilios
  - Delakis Nikolaos
  - Demertzis Eleftherios
  - Drakoulaki Eleni
  - Georgiadis Vasilios
  - Iatrakis Georgios
- Iatrakis Petros – Pavlos
- Iggilis Anastasia
- Kampourakis Nomikos
- Katsinelis Konstantinos
- Myrkos Demosthenes
- Panagidis Giannakis
- Pegkos Athanasios
- Pentafragkas Georgios
- Vatsithianos Nikolaos
- Vogiatzis Konstantinos

  o Diploma theses completed (committee member)

    - Bantra Konstantina
    - Bolonakis Georgios
    - Iskis Nikolaos
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Sotiris Ioannidis
Rank: Associate Professor
Years in rank: 1
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Microprocessor and Hardware Laboratory

A – Teaching

- Undergraduate courses taught
- Graduate courses taught
- Labs taught
- Curriculum & course development
  - HPY414: Security of Systems and Services

B – Publications

- Publications in refereed journals
  - Published:

- Publications in refereed conferences
  - Published:
    - "Integration of an online voting solution with the SMESEC security framework" Jordi Cucurull, Christos Tselios, Carolina Rueda, Noemi Folch, Fady Copty, Reda Igbaria, Manos Athanatos, Antonios Krithinakis, Sotiris Ioannidis, Jose Francisco Ruiz, and Pablo Barrientos. In Proceedings of the IEEE International Systems Conference (SysCon), Montreal, Canada, August 2020.
22nd International Symposium on Research on Attacks, Intrusions, and Defenses (RAID), Beijing, China, September 2019.


- Books and edited book chapters

- Patents

C – Awards & Distinctions

D – Funded Projects

- Current projects:
  - “C4IoT: Cyber security 4.0: protecting the Industrial Internet Of Things” Funded by the European Commission (SU-ICT-01-2018)


● “I-BiDaas: Industrial-Driven Big Data as a Self-Service Solution” Funded by the European Commission (ICT-16-2017)

● “CERTCOOP: Trans-European and Greek CERTs collaboration project” Funded by the European Commission (CEF-2016-3)


● “PUZZLE: Towards a Sophisticated SIEM Marketplace for Blockchain-based Threat Intelligence and Security-as-a-Service” Funded by the European Commission (SU-DS03-2019)


● “HEIR: A secure Healthcare Environment for Informatics Resilience” Funded by the European Commission (SU-DS05-2019)

● “ASCAPE: Artificial intelligence Supporting CaNcer Patients across Europe” Funded by the European Commission (SC1-DTH-01-2019)


● “AERAS: A CybEr range tRaining platform for medicAl organisations and systems Security” Funded by the European Commission (MSCA-RISE-2019)


● “GUARD: A cyber-security framework to GUArantee Reliability and trust for Digital service chains” Funded by the European Commission (SU-ICT-01-2018)

● “SPIDER: a cyberSecurity Platform for virtualseD 5G cybEr Range services” Funded by the European Commission (SU-DS01-2018)

● “CONCORDIA: Cyber security cOmpeteNce foR Research anD Innovation” Funded by the European Commission (SU-ICT-03-2018)

● “CyberExchange: Cyber Security Threats and Threat Actors Training - Assurance Driven Multi-layer, end-to-end Simulation and Training” Funded by the European Commission (CEF-2017-3)

● “RESIST: RESiLient transport InfraSTRucture to extreme events” Funded by the European Commission (MG-7-1-2017)

● “CE-IoT: A Framework for Pairing Circular Economy and IoT: IoT as an enabler of the Circular Economy circularity-by-design as an
enabler for the IoT” Funded by the European Commission (MSCA-RISE-2017)
● “SEMIoTICS: Smart End-to-end Massive IoT Interoperability, Connectivity and Security” Funded by the European Commission (IOT-03-2017)
● “UNITY: Cybersecurity and privacy dialogue between Europe and Japan” Funded by the European Commission (H2020-DS-2016-2017/DS-05-2016)

● Project proposals submitted:

E – Professional service

● Associate Editor duties
  ● International Journal of Information Security

● Society Technical Committee duties

● Conference Technical Program Committee service
  ● ACM Cloud Computing Security Workshop (CCSW)
  ● ACM Symposium on Information, Computer and Communication Security (ASIACCS),
  ● IEEE International Conference on Cloud Computing (CLOUD)
  ● IEEE International Conference on Communication and Network Security (CNS),
  ● International Conference on World Wide Web (WWW)
  ● International Workshop on Smart Circular Economy (SmaCE),
  ● Usenix Security Conference

● Conference Organization (specify role)
  ● European Workshop on System Security (EuroSec), Steering Committee
  ● ENISA-FORTH Network and Information Security Summer School (Program Chair)
  ● Workshop on Model-driven Simulation and Training Environments for Cybersecurity (Program Chair)
• Reviewing activities

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

• School – level responsibilities

• University responsibilities

**G – Advising**

• Active graduate students supervised
  
  o Ph.D. and M.Sc. students completed (supervisor)
    ▪ Despoina Antonakaki
  
  o Ph.D. and M.Sc. theses in progress (supervisor)
    1. Giorgos Christou, Ph.D
    2. Dimitris Deyannis, Ph.D
    3. Michalis Diamantaris, Ph.D.
    4. Kostas Drakonakis, Ph.D.
    5. Evangelia Papadogiannaki, Ph.D.
    6. Panagiotis-Elias Papadopoulos, Ph.D.
    7. Alexander Shevtsov, Ph.D.
    10. Apostolos-Paraschos Karambelas, M.Sc.
    15. Rafael Tsirbas, M.Sc.

  o Ph.D. and M.Sc. Degrees completed (committee member)

  o Ph.D. and M.Sc. Degrees in progress (committee member)

• Undergraduate students supervised

  o Diploma theses in progress

  o Diploma theses completed (supervisor)
    ▪ Nikolaos Chalkiadakis
    ▪ Manolis Chatzimpyrros
    ▪ Ioannis Tsiakkas
- Diploma theses in progress (committee member)
- Diploma theses completed (committee member)
Technical University of Crete  
School of Electronic & Computer Engineering  

Annual Activity Report  

For the period: Sep. 1, 2019 to Aug. 31, 2020  

Name: Kostas Kalaitzakis  
Rank: Full Professor  
Years in rank: 17  
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  
  o ACE 202: Electric Circuits Analysis (mandatory)  
  o ACE 414: Electric Measurements and Sensors  

● Graduate courses taught  
  o ACE 602: Special Topics on Electric Measurement Systems  

● Labs taught  

● Curriculum & course development  
  o Lecture notes / slides developed  
    • Electric Circuits Analysis (ACE 202)  
    • Electric Measurements and Sensors (ACE 414)  

● Authored textbooks: None  

B – Publications  

● Publications in refereed journals  
  o Published:  

Publications in refereed conferences:


Books and edited book chapters


Patents: --

C – Awards & Distinctions: --

D – Funded Projects

Current projects:

“Smart Grids Energy management Staff MSCA-RISE-2014”, Marie Skłodowska-Curie, χρηματοδοτούμενο από την ΕΕ στα πλαίσια του “Research and Innovation Staff Exchange” (Horizon RISE), 2015-2019.


E – Professional service

- Regular Reviewer in high quality international Journals with referees

F – Service to the School and the University

- School – level responsibilities:
  - Member of the Deanery Committee

- University – level responsibilities:
  - Chair of the Ethics and Deontology of Research Committee

G – Advising

- Active graduate students supervised
  - Ph.D. students supervised (advisor, in progress)
  - M.Sc. students supervised (advisor, in progress)
    - Fytraki Evangelia
    - Zorbas Alexandros
  - M.Sc. Degrees (committee member)
  - Ph.D. Degrees (committee member)

- Undergraduate students supervised
  - Diploma theses completed (supervisor):
    - Ioannou Vasileios
    - Smyrnaios Dimitrios
    - Vratsanos Georgios
    - Ardit Neli
    - Paterakis Emmanouil
    - Kalogridis Stylianos
Name: Fotios D. Kanellos  
Rank: Associate Professor  
Years in rank: 2  
Full-time or part-time: Full-time  
Division:  
Lab affiliation: Electric Energy Systems

A – Teaching

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

- Graduate courses taught
  - ECE 172: Special Topics on Electric Power Systems

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

- Curriculum & course development
  - Labs developed
  - Lecture notes / slides developed

B – Publications

- Publications in refereed journals
  - Published:

- Publications in refereed conferences
  - Published:

- Books and edited book chapters

- Patents

C – Awards & Distinctions

D – Funded Projects
  - Current projects:
    - e-Power/T2ΕΔΚ-01775, “Smart power converter for the provision of integrated services to electric networks and consumers”, Telecommunication Systems Research Institute (T.S.I.), TUC, Role: Research Group Member
    - “INVESTIGATION OF THE ELECTRODES CONFIGURATION OF THE ATTICA-CRETE DC HIGH VOLTAGE WIRING SYSTEM”, University of West Attica, Department of Electrical and Electronics Engineering. Role: Research Group Member

- Project proposals submitted:
E – Professional service

- Associate Editor duties
- Society Technical Committee duties
- Conference Technical Program Committee service
- Conference Organization (specify role)
- Reviewing activities
  - IEEE Transactions on Power Systems
  - IEEE Transactions on Smart Grid
  - IEEE Systems Journal
  - IEEE Transactions on Sustainable Energy
  - Electric Power Systems Research
  - Journal of Intelligent & Robotic Systems
  - IEEE IAS Publications

F – Service to the School and the University

- School – level responsibilities
  - Director of Electric Energy Systems Laboratory
  - School coordinator for the ERASMUS+ program
- University responsibilities
  - Member of TUC Technical Council

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. theses completed (supervisor)
  - Ph.D. and M.Sc. theses in progress (supervisor)
    - Kalaitzakis Iason-Christos (M.Sc)
    - Dakanalis Michael (M.Sc)
    - Peponakis Emanuel (M.Sc)
  - Ph.D. and M.Sc. Degrees completed (examination committee member)
    - Kampelis Nikolaos (Ph.D.) (School of Chemical and Environmental Engineering)
    - Gianakis George (Ph.D.) (School of Production Engineering and Management)
- Ph.D. and M.Sc. Degrees in progress (committee member)
  - Roditis Ioannis (M.Sc)
  - Bardakis Ioannis (M.Sc)
  - Konstantinidis George (M.Sc)
  - Tsamoudalis Konstantinos (M.Sc)

- Undergraduate students supervised

  - Diploma theses in progress
    - Delakis Nikolaos
    - Laskaris Andreas
    - Komitopoulos Nikolaos
    - Sartzetakis Antonios
    - Christofolakis Tryfon
    - Pitta Eleni
    - Rampias Sarantis

  - Diploma theses completed (supervisor)
    - Kalaitzakis Iason-Christos
    - Christena Ageliki
    - Dakanalis Michael
    - Moudiri Konstantina
    - Karandinou Ekaterini-Agapi
    - Farinis George
    - Goumagias Konstantinos

  - Diploma theses in progress (committee member)
    - Kontos Stefanos
    - Stefanakis Konstantinos
    - Demertzis Eleftherios
    - Triantafylou Panagiotis
    - Tsaparas Christos
    - Konidari Iro
    - Vardakis Ioannis
    - Saoulis Lampros
    - Mavrovatis Stylianos
    - Sdoukos Thomas
    - Litsios Sotirios
    - Rousakis Skouloudis
    - Moraitis Ioannis
    - Lagoudakis Marios
    - Saloustros Vassilios

  - Diploma theses completed (committee member)
    - Paterakis Emanuel
    - Koutsaki Eleni
    - Antoninis Ioannis
    - Ioannou Vassilios
Name: Eftichios Koutroulis
Rank: Associate Professor
Years in rank: 4
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 101: Logic Design (mandatory)
  - ACE 102: Basic Circuit Theory (mandatory)

- Graduate courses taught
  - ENE 602: Electronic Energy Management Systems

- Curriculum & course development
  - Lecture notes / slides developed
    - ACE 101 - Logic Design: developed new slides
    - ACE 102 - Basic Circuit Theory: updated the existing slides
    - ENE 602 - Electronic Energy Management Systems: updated the existing slides

B – Publications

- Publications in refereed journals
  - Published:

• Publications in refereed conferences
  o Published:

C – Awards & Distinctions

D – Funded Projects

• Current projects:
  o DES²iRES project, ERANETMED “Energy-Water Nexus”: Project Coordinator.
  o SmartPV project, “Research - Create - Innovate” call: Project Coordinator.
  o eSOLAR project, “Bilateral and Multilateral Research & Technology Cooperation between Greece and China” GSRT call: Project Coordinator.
  o ePOWER project, “Research - Create - Innovate” call: Project Coordinator.
  o PERPS project, “Research - Create - Innovate” call: Research team member.

• Project proposals approved for funding:
  o AID4PV project, “SOLAR-ERA.NET Cofund 2 Additional Joint Call”: Project Coordinator.

E – Professional service

• Associate Editor duties
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
  - Program Committee member, “9th International Conference on Modern Circuits and Systems Technologies (MOCAST 2020)”.

- Reviewing activities
  - Performed 30 reviews of journal papers (including revisions) for:
    - IEEE Transactions on Power Electronics
    - IEEE Journal of Emerging and Selected Topics in Power Electronics
    - IEEE Journal of Photovoltaics
    - IEEE Transactions on Industrial Electronics
    - IET Power Electronics
    - Renewable Energy
  - 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 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. Antonis Peristeropoulos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    1. Stefanakis Costas
    2. Demertzis Eleftherios
    3. Litsios Sotiris
    4. Mikel Ropi
    5. Tsaparas Christos
    6. Mavrommatis Stylianos
    7. Stasinos Apostolos
    8. Constantinidou Andria
    9. Almpantis Anastasios
    10. Sdoukos Thomas
    11. Kosmopoulos Stefanos
    12. Petrakis Emmanuel
    13. Politis Vasilios
    14. Koukouzas Christos
  - Diploma theses completed (supervisor)
    1. Kalogerakis Christos
    2. Iskis Nikolaos
    3. Glykis Theodoros
    4. Papargiriou Athanasios
    5. Vrouvakis Ioannis
    6. Tepelidis Avraam
Technical University of Crete
School of Electronic & Computer Engineering
Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: George S. Stavrakakis
Rank: Full Professor
Years in rank: 25
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
  o ENE 301: Introduction to Power Systems/Power Systems – I (mandatory)
  o ENE 511: Renewable Energy Sources (optional mandatory)

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

● Labs taught
  o Introduction to Power Systems /Power Systems I (ENE 301)
  o Renewable Energy Sources (ENE 511)

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

● Authored textbooks: None

B – Publications

● Publications in refereed journals
  o Submitted: 6
  o Accepted: 6
Published : 6


Publications in refereed conferences: 1

• Publications in conferences on abstract review: 1
  • TRIANTAFYLLIA NIKOLAOU, KONSTANTINOS TSAMOUDALIS, GEORGE STAVRAKAKIS

• 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)

C – Awards & Distinctions: --

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 31Match 2022. Senior Researcher.
  
  
  ■ 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

- Conference Organization (specify role) : none

  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 (e.g. EΔΕΤ): one
  - “Member of the Permanent Committee of the Prefecture of Crete for the Energy Planning of Crete Island”

F – Service to the Department and the School

- Departmental responsibilities: none
- School – level responsibilities: none

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
    - Vardaxis Ioannis
  - M.Sc. Degrees (committee member)
    - Fytraki Evangelia (M.Sc.)
      - Peristeropoulos Antonios
      - Polomarkaki Sofia
      - Papanikolaou Marios
- Argyriou Ioannis (School of Chemical & Environmental Engineering of TUC)

- Ph.D. Degrees (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. Alaa Zaky Hussein.

**Undergraduate students supervised**

- Diploma theses in progress (supervisor):
  - Gioumatzidis Meletios
  - Sgourou Maria
  - Chalevidis Dimitrios
  - Grigoriadis Theodoros
  - Charalabous Ioulia (Iliana)
  - Iosifidou Marina

- Diploma theses completed (supervisor):
  - Kefalas Vasilios
  - Kalliaras Apostolos
  - Lagoudakis Marios
  - Titakis Georgios
  - Kiriakakis Thomas
  - Roditis Ioannis
  - Mavromatakis Iasson
  - Koutsaki Eleni
  - Mpardoutsou Artemis
  - Efstathopoulos Nikolaos

- Diploma theses in progress & completed (committee member):
  - Asimakis Giannopoulos
  - Papargyriou Athanasios
  - Glikis Theodoros
  - Mparpagiannis Christos
  - Kalergis Georgios
  - Patikos Ioannis
  - Kormpi Konstantina
  - Tepelidis Avraam
  - Papadomanolakis Theodoros
  - Moydiri Konstantina
  - Christena Aggeliki
  - Kalaitzakis Iason-Christos
Technical University of Crete
School of Electrical & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Nikolaos Bekiaris-Liberis
Rank: Assistant Professor
Years in rank: 2
Full-time or part-time: Full – Time
Division: Systems
Lab affiliation: Automation Laboratory

A – Teaching

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

- Graduate courses taught
  - SYS 603: Nonlinear Systems

- Curriculum & course development
  - Lecture notes / homework / exam / lab exercises
    - SYS 402: Control Theory With Applications: Homework and exam development. Update of lab exercises.
    - SYS 603: Nonlinear Systems: Homework and exam development.

B – Publications

- Publications in refereed journals
  - Published:

Submitted:

Publications in refereed conferences
- Published:

C – Awards & Distinctions
- Grade A (fully meets the European Research Council's excellence criterion and is recommended for funding if sufficient funds are available) awarded for 2020 ERC Starting Grant proposal INSPIRA, ERC (PE7 panel).

D – Funded Projects
- Submitted proposals:
  - Secure control of infinite-dimensional systems with application to vehicular traffic. HORIZON 2020 ERC Starting Grant. Role: PI. (Proposal not funded due to budget limitations.)
  - Data-driven control of delay systems with application to connected and automated vehicles platoons. Hellenic Foundation of Research and Innovation; Research Projects to Support Faculty Members & Researchers. Role: PI. (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 *2020 European Control Conference* (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.

- International program committees member
  - 2019 IFAC Workshop on Time Delay Systems.

- Invited session organization
  - Control for Large Scale Traffic Networks, 2019 IEEE Conference on Decision and Control.

- PhD Committees
  - Kallirroi Porfyri, Department of Production Engineering and Management, TUC.

- Reviewing activities
  - Performed ~ 25 reviews of journal papers (including revisions) for:
    - IEEE Transactions on Automatic Control
    - IEEE Transactions on Intelligent Transportation Systems
    - IEEE Transactions on Control Systems Technology
    - 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 Control (publisher: Taylor and Francis)
    - The Canadian Journal of Chemical Engineering (publisher: Wiley)
    - Physica A (publisher: Elsevier)
    - Transportation Research Part B (publisher: Elsevier)
    - Transportation Research Part C (publisher: Elsevier)
F – Service to the School and the University

● School responsibilities
  o Member of undergraduate diploma theses examining committees.
  o Undergraduate studies student advisor.

● University responsibilities
  o Member of equipment supply and delivery committees.

G – Advising

● Graduate students supervised
  o PhD (as distant co-advisor)
    1. Y. Zhang (Tongji University, China)

● Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    1. Stavros Katsaras
    2. Nikos Intas
    3. Triantafyllia Sampani
  o Diploma theses completed (supervisor)
    1. Manolis Proestakis
Technical University of Crete
School of Electrical & Computer Engineering
Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Aggelos Bletsas
Rank: Full Professor
Years in rank: 1.5
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)
  - TEL513 Satellite Communications
    (elective, 13 theory lectures + 4 labs taught by instructor)

- Graduate courses taught
  - TEL606 Introduction to Probabilistic Graphical Models & Inference Algorithms
    (24 lectures + 8 problem sets)

B – Publications

- Publications in refereed journals
  1. Submitted:
     - M. Ouroutzoglou, G. Vougioukas, G. N. Karystinos and A. Bletsas, "Multistatic Noncoherent Linear Complexity Miller Sequence Detection For Gen2 RFID/IoT", IEEE Transactions on Wireless Communications (TWC).

- Publications in refereed conferences
  1. Published:
     - S. Siachalou, S. Megalou, A. Tzitzis, E. Tsardoulias, A. Bletsas, J.N. Sahalos, T. Yioultsis and A.G. Dimitriou, "Robotic Inventorying and Localization of RFID Tags, Exploiting Phase-

- M. Ouroutzoglou, G. Vougioukas, P.N. Alevizos, A.G. Dimitriou and A. Bletsas, "Multistatic Gen2 RFID over Ethernet with Commodity SDRs", *IEEE International Conference on RFID-Technology and Applications (RFID-TA)*, Sept. 2019, Pisa, Italy. Selected in the list of best papers / candidate for best paper award 🎉

C – Awards & Distinctions

- **Sept. 2019**: M. Ouroutzoglou, G. Vougioukas, P.N. Alevizos, A.G. Dimitriou and A. Bletsas, "Multistatic Gen2 RFID over Ethernet with Commodity SDRs", *IEEE International Conference on RFID-Technology and Applications (RFID-TA)*, Sept. 2019, Pisa, Italy. **Selected in the list of best papers / candidate for best paper award 🎉**

D – Funded Projects

- Current projects:
  - 1 Project 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.
  - 1 Project 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) 2020 (Ad-hoc & Sensor Networks Track).
  - IEEE International Conference on Communications (ICC) 2020 (Mobile Wireless Networks Track).
  - IEEE International Conference on Communications (ICC) 2020 (Cognitive Radio & Networks Track).
• IEEE Global Communications Conference (Globecom) 2020 (Communications Theory Track).
• IEEE Global Communications Conference (Globecom) 2020 (Ad-hoc & Sensor Networks Track).
• IEEE Global Communications Conference (Globecom) 2020 (Mobile Wireless Networks Track).

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

F – Service to the School and the University

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

G – Advising

- Diploma theses supervised as principal advisor – COMPLETED Diploma THESES:
  - Completed Diploma theses supervisor for
    1. Georgios Apostolakis
    2. Iosif Vardakis
    3. Orestis Konstantinos Giannakopoulos
    4. Panagiotis Bellonias
    5. Roza Chatzigeorgiou
    6. Emmanouil Andrianakis

- 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
Technical University of Crete  
School of Electrical & Computer Engineering  

Annual Activity Report  

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: George Karystinos  
Rank: Professor  
Years in rank: 2  
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 415: Statistical Signal Processing for Communications (elective)  
  - TEL 416: Information Theory and Coding (elective)

- Labs taught

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

B – Publications

- Publications in refereed journals  
  - Submitted:  

  - Accepted:

  - Published:

- Publications in refereed conferences
o Submitted:

o Accepted:

o Published:

• Books and edited book chapters

• Patents

C – Awards & Distinctions

D – Funded Projects

• Current projects:

• Project proposals submitted:

E – Professional service

• Associate Editor duties

• 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.

• Conference Technical Program Committee service

• Conference Organization (specify role)

• Reviewing activities

F – Service to the School and the University

• School – level responsibilities

• 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
  - Ph.D. and M.Sc. students completed (supervisor)
  - Ph.D. and M.Sc. theses in progress (supervisor)
    - Fountzoulas Ioannis (Ph.D.)
    - Grypiotis Ioannis (Ph.D.)
    - Koupatsiaris Dimitrios (Ph.D.)
  - Ph.D. and M.Sc. Degrees completed (committee member)
    - Karakasis Paris (M.Sc.)
    - Logothetis Fragkoulis (M.Sc.)
    - Vougioukas Georgios (Ph.D.)
  - Ph.D. and M.Sc. Degrees in progress (committee member)
    - Giannelos Evangelos (Ph.D.)
    - Karatarakis Evangelos (M.Sc.)
    - Kolomvakis Christos (M.Sc.)
    - Papagiannakos Ioannis-Marios (M.Sc.)
    - Siaminou Ioanna (M.Sc.)
    - Skyvalakis Konstantinos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Dafoulis Nikolaos
    - Nasoulis Nikolaos
    - Theofilou Eleni
  - Diploma theses completed (supervisor)
    - Vasilopoulos Alkiviadis
  - Diploma theses in progress (committee member)
    - Algiannaki Maria
    - Giakoumatis Pavlos-Paris
    - Iliadis Stylianos
    - Paktitis Spyridon
    - Paschalidou Christina
    - Polyzos Christos
    - Psychountaki Margarita-Antonia
  - Diploma theses completed (committee member)
    - Boras Charalampos
• Chatzigeorgiou Roza
• Dovrou Aikaterini
• Giannakopoulos Konstantinos-Orestis
• Kolomvakis Christos
• Papagiannakos Ioannis-Marios
• Tsekos Nikolaos
• Vardakis Iosif
Name: Liavas Athanasios  
Rank: Professor  
Years in rank: Ten (10)  
Full-time or part-time: Full-time  
Division: Telecommunications  
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught
  - TEL 301 Telecommunications Systems I (mandatory)
  - PLH 421 Randomized Algorithms (X-listed)

- Graduate courses taught
  - Advanced Topics in Convex Optimization
  - Randomized Algorithms (X-listed)

- Labs taught

- Curriculum & course development
  - New exercises-lab in Advanced Topics in Convex Optimization
  - Lecture notes in Randomized Algorithms (updated)

B – Publications

- Publications in refereed journals
  - Published:

- Publications in refereed conferences
  - Published:
    - Paris A. Karakasis, Athanasios P. Liavas, Nicholas D. Sidiropoulos, Panagiotis G. Simos, and Efrosyni Papadaki  

- Books and edited book chapters
- Patents

C – Awards & Distinctions

D – Funded Projects

- Current projects:
  - PARTENSOR: parallel algorithms for very large tensor processing (T1ΕΔΚ-03366) (Duration: 2018-2021).

E – Professional service

- Associate Editor duties
- Society Technical Committee duties
- Conference Technical Program Committee service
- Conference Organization (specify role)
- Reviewing activities

F – Service to the School and the University

- School – level responsibilities
  - Dean, School ECE
- University responsibilities
  - Member of the Senate of the Technical University of Crete

G – Advising
• Active graduate students supervised
  o Ph.D. and M.Sc. students completed (supervisor)
    ▪ Paris Karakasis (MSc)
  o Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ Aleksandros Georgogiannis (PhD Student)
    ▪ Ioanna Siaminou (MSc Student)
    ▪ Christos Kolomvakis (MSc Student)
    ▪ Ioannis-Maris Papagiannakos (MSc Student)
• Undergraduate students supervised
  o Diploma theses in progress
    ▪ Christos Polyzos
    ▪ Margarita-Antonia Psychountaki
  o Diploma theses completed (supervisor)
    ▪ Ioanna Siaminou
    ▪ Ioannis-Marios Papagiannakos
    ▪ Christos Kolomvakis
Technical University of Crete
School of Electrical & Computer Engineering
Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Michael Paterakis
Rank: Professor
Years in rank: 21
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

B – Publications

C – Awards & Distinctions

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
F – Service to the School and the University

- School responsibilities
  - 2013 - 2021, Member, Graduate Committee, ECE School, Technical University of Crete.
  - 2017 - 2021, 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 – December 2021, Director and Chairman of the Board, Telecommunication Systems Research Institute (T.S.I.), Technical University of Crete.
  - 2013 - 2017, Member of the Quality Assurance Unit for Higher Education, Technical University of Crete.
  - 2017 - 2021, 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)
    - Skyvalakis Konstantinos

- Undergraduate students supervised
  - Diploma theses completed (supervisor)
    - Motos Michail
Technical University of Crete  
School of Electrical & Computer Engineering  
Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Michalis Zervakis  
Rank: Professor  
Years in rank: 20  
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 311: Machine Learning and Pattern recognition

- Graduate courses taught

- Labs taught

- Curriculum & course development  
  - New courses / labs developed

  - Lecture notes / slides developed  
    - TEL 311: Machine Learning and Pattern recognition

  - Authored textbooks

B – Publications

- Publications in refereed journals  
  - Submitted:
Published:


[5] Kallergi G; Hoffmann O; Bittner A-K; Papadimitriou L; Katsarou S; Zacharopoulou N; Zervakis M; Sfakianakis S; Stournaras, C; Georgoulia S, "CXCR4 and JUNB double-positive disseminated tumor cells are detected frequently in breast cancer patients at primary diagnosis", Therapeutic Advances in Medical Oncology, 12, 2020, SAGE Publications UK


[7] Panayides, A; Amini, A; Filipovic, N; Sharma, A; Tsafaridis, S; Young, A; Foran, D; Do, N; Golemati, S; Kurc, T; Huang, K; Nikita, K; Veasey, B; Zervakis M; Saltz, J; Pattichis C; “AI in medical imaging informatics: Current challenges and future directions”, IEEE Journal of Biomedical and Health Informatics, 24, 7, pp. 1837-1857, 2020

[8] Paspalakis, S; Moirogiorgou, K; Papandroulakis, N; Giakos, G; Zervakis, M; “Automated fish cage net inspection using image processing techniques”, IET Image Processing, 14, 10, pp. 2028-2034, 2020

Submitted:

[1] Antonakakis, M; Schrader, S; Aydin, Ü; Khan, A; Gross, J; Zervakis, M; Rampp, S; Wolters, C; “Inter-subject variability of skull conductivity and thickness in calibrated realistic head models”, Neuroimage,

[3] Giannakaki, K; Giannakakis, G; Vorgia, P; Zervakis, M; “Absence seizure detection classifying matching pursuit features of EEG signals”, EAI Trans. on Bioengineering and Bioinformatics,

- Publications in refereed conferences
  - Published:
    - [8] Papadogiorgaki, M; Mezaris, V; Grammalidis, Grigoriadis, K; Bei, E; Livanos, G; Zervakis, M; “Quality of life support system for people with intellectual disability”, Proceedings of the 13th ACM International Conference on PErvasive Technologies Related to Assistive Environments, PETRA 2020
    - [9] Livanos, G; Ramnalis, D; Polychronos, V; Balomenou, P;
Sarigiannidis, P; Kakamoukas, G; Karamitsou, T; Angelidis, P; Zervakis, M; “Extraction of Reflectance Maps for Smart Farming Applications Using Unmanned Aerial Vehicles”, IEEE 12th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2020


- Books and edited book chapters
- Patents

### D – Funded Projects

**Current projects:**
- 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)
- ΥΠΟΥΡΓΕΙΟ ΑΓΡΟΤΙΚΗΣ ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΤΡΟΦΙΜΩΝ, “ΚΑΙΝΟΤΟΜΙΑ ΣΤΗΝ ΥΔΑΤΟΚΑΛΛΙΕΡΓΕΙΑ”, «Εφαρμογή έξυπνων συστημάτων για τη βελτίωση της διαχείρισης και της ευζωίας των ψαριών σε συνθήκες καλλιέργειας σε κλωβούς (iFish)»
- ΥΠΕΝΘ, ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ, «ΠΡΟΤΥΠΕΣ ΥΠΗΡΕΣΙΕΣ ΙΑΤΡΙΚΗΣ ΑΞΙΟΛΟΓΗΣΗΣ, ΠΡΟΛΗΨΗΣ ΚΑΙ ΔΙΑΣΤΡΩΜΑΤΩΣΗΣ ΣΤΡΑΤΕΥΣΙΜΩΝ ΚΑΙ ΕΚΤΙΜΗΣΗ ΔΕΙΚΤΩΝ ΥΓΕΙΑΣ (e-Mass)»
- ΥΠΕΝΘ, ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ, «Προηγμένο Σύστημα Πρόληψης Επικίνδυνων Καταστάσεων για Βρέφη - x (επί) ΒΛΕΨΙΣ»
- ΥΠΕΝΘ, ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ, «Αυτόνομο ρομποτικό σύστημα για ανακύκλωση αστικών απορριμμάτων (ANASA)»
- ΥΠΕΝΘ, ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ, «Εξυπνή Γεωργία με τη χρήση Drones - (MARS)»
- Αυτοματοποιημένη ετοιμότητα αναζητησης για στοιχεία της Άτυπης Αναπροσανατολίδασης - AdVISEr’@ T2ΕΔΚ
- Σύστημα Υποστήριξης Ποιότητας Ζωής για Άτομα με Νοητική Αναπηρία – QuaLiSID’@ T2ΕΔΚ

**Project proposals submitted:**

- 2020-2023 Horizon 2020; BES-2-2019 BorderUAS - Semi-autonomous border surveillance platform combining next generation unmanned aerial
vehicles with ultra-high-resolution multi-sensor surveillance payload; Leader of ECE team for TUC

- 2020- ICT-AgriFood, “ICT-based monitoring system for precision viticulture”

- ΕΛΙΔΕΚ ΔΕΠ στην κατηγορία μας (ΕΠ.2: Επιστήμες Μηχανικού και Τεχνολογίας, Κατηγορία ΙΙ): Integrated Modular Building Facilities Management Services, Proposal Number: 03241

- LIFE20-ENV, “Furniture-4-Life”, Proposal number LIFE20-ENV_CY_000023

- PRIMA S2 2020, “Smart tablΕ vitiCULture faRming in a changing Environment”

- European Patent Office EPO Project - Sword Group and TUC collaboration, “RfO VM-454 2.1.3.1 Computer Vision”

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

- Conference Organization (specify role)
  - 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
  • President of ELKE
  • Member of the Senate, TUC

G – Advising
Undergraduate students supervised
  • Active graduate students supervised

  • Ph.D. and M.Sc. students completed (supervisor)

  • Ph.D. and M.Sc. theses in progress (supervisor)
    ▪ Liaba Irini (Ph.D.)
    ▪ Livanos Georgios (Ph.D.)
    ▪ Moirogiorgou Constantia (Ph.D.)
    ▪ Tsakaneli Stavroula (M.Sc.)
    ▪ Klados Georgios (M.Sc.)
    ▪ Politof Konstantinos (M.Sc.)
    ▪ Tsellou Aikaterini (M.Sc.)
    ▪ Zormpas Alezandros (M.Sc.)

  • Ph.D. και M.Sc. φοιτητές που ολοκλήρωσαν (μέλος επιτροπής)
    ▪ ΡΕΞΑΚΗΣ ΙΩΑΝΝΗΣ (PH.D.)
    ▪ ΓΙΑΚΟΥΜΑΚΗΣ ΠΑΥΛΟΣ (M.SC.)
    ▪ ΛΙΛΙΟΠΟΥΛΟΣ ΣΩΤΗΡΙΟΣ (M.SC.)
    ▪ Θάλεια Ντινιάκου (M.SC.)
    ▪ ΧΛΕΙΑΟΥΤΑΚΗΣ ΑΓΓΕΛΟΣ (PH.D.)

  • Ph.D. και M.Sc. φοιτητές με διατριβή σε εξέλιξη (μέλος επιτροπής)
    ▪ ΚΑΛΑΝΤΖΑΚΗ ΚΑΛΛΙΟΠΗ (PH.D.)
    ▪ ΟΙΚΟΝΟΜΙΔΗΣ ΔΗΜΗΤΡΙΟΣ (PH.D.)
    ▪ ΤΣΑΠΡΑΣ ΑΘΑΝΑΣΙΟΣ (PH.D.)

  • Ενεργοί προπτυχιακοί φοιτητές

    • Ολοκληρωμένη διατριβή (επιβλέπων)
      ▪ ΖΟΡΜΠΑΣ ΑΛΕΞΑΝΔΡΟΣ
      ▪ Δόβρου Αικατερίνη
      ▪ Τσέλλου Αικατερίνη
      ▪ Καδίτης Εμμανουήλ
      ▪ Παπαδομανωλάκης Θεόδωρος
      ▪ Πατίκος Ιωάννης
      ▪ Μπάντα Κωνσταντίνα
      ▪ Γιακουμάκης Παύλος
      ▪ Τζανάκης Σάββας
      ▪ Πασπαλάκης Στάιρος
Ζουριδάκης Στυλιανός-Νεκτάριος
Δημακόπουλος Βασίλειος
Καλέργης Γιώργος
Κορμπή Κωνσταντίνα

Διατριβή σε εξέλιξη (επιβλέπων)
- Σίμος Νικόλαος
- Ζαφείρης Στυλιανός
- Σδουκοπούλου Γλυκερία
- ΠΑΣΧΑΛΙΔΟΥ ΧΡΙΣΤΙΝΑ
- ΤΣΕΚΟΣ ΝΙΚΟΛΑΟΣ
- Αντωνιάδης Θέοδωρος
- Μαλεφιουδάκης Βανιαμίν
+5 περίπου

Ολοκληρωμένη διατριβή (μέλος επιτροπής)
- Καβρουλάκης Δημήτριος
- Ζαχαροπούλου Ηλιάνα
- Κυριακάκης Θωμάς
- Μαυροματάκης Ιάσων
- Μαργώνη Ιωάννα
- Ναρδάκης Ιωσήφ
- Μιχαήλ Μάριος
- Μπαρδούτσου Άρτεμις
- Κέφαλας Βασίλειος
+10 περίπου

Διατριβή σε εξέλιξη (μέλος επιτροπής)
- Μπαρόκινου Αρτεμίς
- Κεφάλας Βασίλειος
+10 περίπου
Name: Dimitris Angelakis  
Rank: Associate Professor  
Years in rank: 3  
Full-time or part-time: Full-time  
Division:  
Lab affiliation:  

A – Teaching  

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

- Graduate courses taught  
  o FYS 602: Quantum Technology (FYS 602)  

- Labs taught  

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

B – Publications  

- Publications in refereed journals  

- Accepted  
  1. D. Leykam, D. G. Angelakis* “Photonic band structure design using persistent homology”
• Quantum supremacy with analog quantum processors for material science and machine learning
J. Tangpanitanon, S. Thanasilp, M. A. Lemonde, D. G. Angelakis*
arxiv.org/1906.03860

Published

1. J. Marc-Antoine Lemonde, Vittorio Peano, Peter Rabl, Dimitris G. Angelakis*
   “Quantum state transfer via acoustic edge states in a 2D optomechanical array”
   New J. Phys. 21 (11), 113030 (2020)


• Publications in refereed conferences

1. “Characterizing Photonic Band Structures Using Topological Data Analysis”, CLEO/Europe (online), June 2021

2. "Quantum supremacy with driven many-body systems", CQT Webinars Series on Quantum Computation and Quantum Simulation, NUS, Singapore, June 2020

3. “Quantum Technologies in the noisy intermediate-scale quantum (NISQ) era”, guest speaker for a physics undergraduate course at Chulalongkorn university, April 2020.

• Invited talks and colloquia

C – Awards & Distinctions

- Invited Research Professor Centre at Quantum Technologies, National University of Singapore September 2019 to January 2020
- Member of EU Quantum Network Governing Board for the European Flagship in Quantum Technologies, representing Greece (one scientist per EU country).

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
- 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


F – Service to the School and the University
• School responsibilities
  o Member of the ECE School Executive Committee

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

G – Advising

• Active graduate students supervised

  o Ph.D. and M.Sc. students completed (supervisor)

  2. Tian Feng See (PhD), started August 2014, graduate of DAMTP, Cambridge UK, defended 2019. “Scattering and multiphoton transport in many-body photonic systems.” Now working at semiconductors industry

  o Ph.D. and M.Sc. theses in progress (supervisor)

  3. Supanut Thanasilp, PhD “Quantum simulation and computation with near term quantum devices”, NUS
  4. Benjamin Tan, PhD, “Quantum computation and quantum optimization”, NUS
  5. Beng Yee Tan, PhD, “Quantum machine learning with photonic devices and applications”, NUS
  6. Chee Chong Hian Tan, PhD, “Variational quantum algorithms and applications in quantum chemistry and machine learning”, NUS
  7. Shetakis Nikolaos “Quantum simulations in light matter systems” (Ph.D.), TUC

    o Ph.D. and M.Sc. Degrees completed (committee member)
      • Konstantakis Christos (Ph.D.) TUC
      • Tan Senmao, (PhD ) TUC

    o Ph.D. and M.Sc. Degrees in progress (committee member)
      • Mr Tan Senmao, NUS
      • Mr Yu Xianquan NUS
      • Yap Han How NUS

• Undergraduate students supervised

  o Diploma theses ongoing
Alexandros Politis TUC, “Variational hybrid quantum-classical algorithms and photonic implementations”, ongoing

Ioannis Leonidas, ECE, TUC, “Quantum optimization with NISQ processors”, ongoing,

- Diploma theses completed (supervisor)

Themistoklis Skordias, TUC, “Quantum machine learning and applications”,

- Diploma theses in progress (committee member)

- Diploma theses completed (committee member)
  - Devetzakis Georgios TUC
  - Vardakis Konstantinos TUC
Technical University of Crete  
School of Electrical & Computer Engineering  
Annual Activity Report  

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Daphne Manoussaki  
Rank: Assistant Professor  
Years in rank: 14  
Full-time or part-time: Full  
Division:  
Lab affiliation: None

A – Teaching

Undergraduate courses Technical University of Crete (E.C.E.)
  ● MATH 101: Mathematics I (mandatory)  
  ● MATH 203: Differential Equations  
  ● MATH 411: Mathematical Biology

University of Crete (Medical School)
  o Mathematical Biology

Boolean

B – Publications

  ● Publications in refereed journals  
  ● Submitted:

C – Awards & Distinctions

D – Funded Projects

“Pressure measurements in the endolymphatic sac”  
Beneficiary of a $56,000 equipment donation from the National Institutes of Health to Fo.R.T.H., Heraklion

E – Professional service  
F – Service to the School and the University  

G – Advising

  ● Active graduate students supervised
• Undergraduate students supervised
  o Diploma theses in progress (supervisor)
  o Diploma theses in progress (committee member)
  o Diploma theses completed (committee member)
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2019 to Aug. 31, 2020

Name: Minos Petrakis
Rank: Associate Professor
Years in rank: 4.5
Full-time or part-time: Full-time
Division:
Lab affiliation:

A – Teaching

• Undergraduate courses taught
  MATH 104 : Elements of Mathematics (mandatory)
  MATH 511 : Elements of Mathematical Analysis

• Graduate courses taught
  Σειρές Fourier και Μιγαδική Ανάλυση
  Εφαρμοσμένη Συναρτησιακή Ανάλυση 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)

  • Accepted:

  • Published:

• Publications in refereed conferences
• Published:

• Patents
• \textit{GRANTED}

C – Awards & Distinctions

D – Funded Projects

• Current projects:
• Project proposals submitted:

E – Professional service

• Associate Editor duties
• Society Technical Committee duties
• Conference Technical Program Committee service
• Conference Organization (specify role)
• Reviewing activities
  Reviews \textit{στο zentralblatt-math}

F – Service to the School and the University

• School – level responsibilities

• University responsibilities

G – Advising

• Active graduate students supervised
• Ph.D. and M.Sc. students supervised (advisor, completed)
  \begin{itemize}
  \item Ph.D. and M.Sc. students supervised
  \item Ph.D. and M.Sc. degrees awarded (committee member)
  \end{itemize}
• Ph.D. and M.Sc. Degrees (committee member)
• Undergraduate students supervised
• Diploma theses in progress
• 5
  \begin{itemize}
  \item Diploma theses completed (supervisor)
  \end{itemize}
• Diploma theses in progress (committee member)
  • Diploma theses completed (committee member)
Name: Christodoulakis Stavros  
Rank: Emeritus professor  
Years in rank: Full-time or part-time:
Division:
Lab affiliation:

A – Teaching

B – Publications


• Moumoutzis, N., Koukis, A., Christoulakis, M., Maragkoudakis, I., Christodoulakis, S., Paneva-Marinova, D. PerFECt: “A Performative Framework to Establish and Sustain Onlife Communities and its Use to Design a Mobile App to Extend a Digital Storytelling Platform with New Capabilities.” In Special Session: “Designing and Developing Mobile Serious Games for Augmenting Arts and STEM competencies, capabilities and skills (DG-STEAM)” of the IMCL2019 - International Conference on Interactive Mobile Communication Technologies and Learning, Thessaloniki, Greece, 31 October – 1 November 2019.

C – Awards & Distinctions

D – Funded Projects

- **[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

- **[STSP]** «Ψηφιακή Πλατφόρμα Χωροχρονικής Διαμεσικής Αφήγησης Ιστορικών και Πολιτιστικών Γεγονότων για την Προώθηση Προϊόντων και Υπηρεσιών ΜμΕ»
  Budget: € 220,700 €
  Duration: 23/4/2020 - 22/4/2023
  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+

• **[TI4]** «Technology for industry 4 for teachers and trainers of vocational education»
  
  Budget: € 42.100
  Duration: 1/10/2019 - 31/12/2021
  Project Type: ERASMUS+

**ΠΡΟΤΑΣΕΙΣ ΠΟΥ ΚΑΤΑΤΕΘΗΚΑΝ ΚΑΙ ΕΓΚΡΙΘΗΚΑΝ**

• Erasmus+ KA201 – Strategic partnerships for school education
  Maker schools: Enhancing Student Creativity and STEM Engagement by Integrating 3D Design and Programming into Secondary School Learning
  Coordinator: Technical University – Gabrovo, BULGARIA
  ΗΜΕΡΟΜΗΝΙΑ ΕΝΑΡΞΗΣ: 1/12/2020.

• Erasmus+ KA202 – Strategic partnerships for vocational education and training
  Gamified interactive training to prepare disadvantaged learners for international VET mobility in the tourism and hospitality sector
  Coordinator: Sdruzhenie “Dobrudzhansko agrarno i biznes uchilishte” DABS, BULGARIA
  ΗΜΕΡΟΜΗΝΙΑ ΕΝΑΡΞΗΣ: 1/12/2020.

**E – Professional service**

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

**G – Advising**