TECHNICAL UNIVERSITY OF CRETE

School
of Electronic
and Computer
Engineering

Annual Activity Report
Sep 2014 – Aug 2015

Chania 2015
Computer Science Division

Faculty Members

- Chalkiadakis Georgios, Assistant Professor
- Christodoulakis Stavros, Professor
- Deligiannis Antonios, Associate Professor
- Garofalakis Minos, Professor
- Lagoudakis Michail, Associate Professor
- Mania Ekaterini, Associate Professor
- Petrakis Euripides, Professor
- Samoladas Vasilis, Assistant Professor
Name: Georgios Chalkiadakis
Rank: Assistant Professor
Years in rank: since March 2011 (unofficially); since January 2012 (officially)
Division: Computer Science
Lab affiliation: Intelligent Systems

A – Teaching

- Undergraduate courses taught
  - COMP-517 Multiagent Systems (ΠΛΗ-517 Πολυπρακτορικά Συστήματα) [Winter 2014]
  - COMP-201 Design and Development of Information Systems (ΠΛΗ-201 Σχεδίαση και Ανάπτυξη Πληροφοριακών Συστημάτων) [Winter 2014]
  - COMP-417 Artificial Intelligence (ΠΛΗ-417 Τεχνητή Νοημοσύνη) [Spring 2014]

- Updated course material/slides for all aforementioned courses taught

B – Publications

- Book chapters:

- Publications in refereed journals:
  - Submitted: Agent-Based Modeling of Ancient Societies and their Organization Structure. With A. Chliaoutakis. Submitted to Autonomous Agents and Multi-Agent Systems (JAAMAS), status: accepted

- Publications in refereed conferences (thoroughly peer-reviewed, almost always under a double-blind reviewing process)
Published (full papers):

- Angelos Angelidakis and Georgios Chalkiadakis: **Factored MDPs for Optimal Prosumer Decision-Making.** In Proc. of the 14th Int. Conf. on Autonomous Agents and Multiagent Systems (AAMAS-2015), Istanbul, Turkey, May 2015. **Honorable Mention, Best Student Paper Award Finalist.**

A version of this paper, entitled **Optimal Prosumer Decision-Making using Factored MDPs** also appeared in IJCAI-2016 (the 27th International Joint Conference on Artificial Intelligence) - Accepted for presentation in the **Sister Conference Best Papers Special Track.**


C – Awards & Distinctions

1. **Sept 2014: Reached the second stage of the 2014 European Research Council Starting Grant (ERC-STG-2014).** Acceptance rate for the ERC PE6 (“Computer Science and Informatics”) panel: **6.8%** Note: Less than 15% of the proposals evaluated by the PE6 panel reach the second (interview) stage of evaluation, and about 45% of these (i.e., about 6.8% of those initially evaluated) eventually get accepted.

2. **Editorial Board member for the Journal of Artificial Intelligence Research (JAIR) for a 3-year term: July 1, 2013-June 30, 2016.**

D – Funded Projects

- **Current projects:**
  - **Project “ATLANTAS”**. Development of a prototype 3D forming touch table for interactive 3D GIS. The table will be integrating appropriate robotic and automated modules to provide capabilities for creating live 3D landscape layouts and maquettes (3D forming GIS products). As part of the project, novel algorithms will be developed, to facilitate decision making in the case of emergencies/ natural disasters. **ATLANTAS (11SYN_6_1937_TPE)** is supported by the Greek Ministry of Education and Religious Affairs and is co-financed by ESPA 2007-2013. **Role: team member**

E – Professional service

- Conference Senior Program Committee service
  - The 14th International Conference on Autonomous Agents and Multiagent Systems, Istanbul, Turkey, May 2015 (AAMAS-15)
  - The 24th International Joint Conference on Artificial Intelligence, Buenos Aires, Argentina, 2015 (IJCAI-15).
• Conference Technical Program Committee service
  o The 29th AAAI Conference on Artificial Intelligence, Austin, Texas, USA, January 2015 (AAAI-15).
  o The 2015 Autonomous Agents and Multi-Agent Systems at Scale Workshop (MassiveMAS@AAMAS-2015).

• Conference Organization (specify role)

• Reviewing activities
  o Reviewer for the conferences and workshops I was a Program Committee member at (mentioned above)
  o Reviewer for the “Journal of Autonomous Agents and Multiagent Systems” (JAAMAS)
  o Reviewer for the “Journal of Artificial Intelligence Research” (JAIR)
  o Reviewer for the “Artificial Intelligence Journal” (AIJ)

G – Advising

• Graduate students supervised
  o PhD theses in progress (supervisor)
    ▪ Charilaos Akasiadis: mechanism design, and intelligent agent technologies for the Smart Grid.
    ▪ Evangelos Tripolitakis: probabilistic topic modeling, game theory, and recommendation systems
    ▪ Angelos Chliaoutakis: agent-based modeling and agent organizations
  o MSc theses in progress (supervisor)
    ▪ Angelos Angelidakis: intelligent agent technologies in the smart grid domain
    ▪ Michail Mamakos: cooperative game theory, overlapping coalitions
    ▪ Aris Kidonakis: machine learning and multiagent systems

• Undergraduate students supervised
  o Diploma theses completed (supervisor)
    ▪ Nektarios Mitakidis (graduated October 2014): worked on agent-oriented software engineering.
    ▪ Dimosthenis Skipetaris: works on developing basic and advanced infrastructure for the operation of Virtual Power Plants, and the validation of various multiagent systems techniques in such environments Graduated: November 2014
  o Diploma theses in progress (supervisor)
    ▪ Marios Asiminakis: works on applying machine learning and stochastic search techniques on solving the game of bridge
- Filippos Christianos: works on mechanisms for the smooth integration of electric vehicles in the Smart Grid
- Efthimios Floros: agent-oriented software engineering
- Manos Karamalegos: applying learning and bargaining techniques in the Settlers of Catan strategy game
- Michail-Angelos Papilaris: works on (inverse) reinforcement learning and recommendation systems
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Stavros Christodoulakis
Rank: Professor
Years in rank: 26
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Distributed Multimedia Information Systems and Applications Laboratory

A – Teaching

- Undergraduate courses taught
  - COMP 302: Data Bases (mandatory)
  - AIS 412: Human – Computer Interaction
  - AIS 419: Web Information Systems

- Graduate courses taught
  - AIS 603: Human – Computer Interaction
  - AIS 601: Web Information Systems (Offered jointly with AIS 419)

- 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:

- Conference Publications
  - Published:
C – Awards & Distinctions

D – Funded Projects

- Current projects:

- Project proposals submitted:

E – Professional service

F – Service to the Department and the School

- Departmental responsibilities
  - Lab Director Distributed Multimedia Information Systems and Applications Laboratory (MUSIC)

- School – level responsibilities

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Skevakis Yannis (M.Sc.)
    - Stylianakis Georgios (M.Sc.)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Arapi Polyxeni (Ph.D.)
    - Christoulakis Marios (M.Sc.)
    - Kalokyri Varvara (M.Sc.)
    - Mylonakis Emmanuelle (M.Sc.)
    - Pitsiladis Andreas (M.Sc.)
    - Trochatou Ioanna (M.Sc.)
    - Sifakis Ioannis (M.Sc.)
  - Ph.D. and M.Sc. awarded (committee member)
- Demertzis Ioannis (M.Sc.)
- Tsakonas Constantinos (M.Sc.)
- Ph.D. and M.Sc. Degrees (committee member)
  - Chliaoutakis Aggelos (Ph.D.)
  - Koulieris Georgios Alexandros (Ph.D.)
  - Stravoskoufos Konstantinos (Ph.D.)
  - Sfakianakis Stylianos (Ph.D.)
  - Chliaoutakis Aggelos (M.Sc.)
  - Georgiladakis Spyridon (M.Sc.)
  - Koulieris Georgios Alexandros (M.Sc.)
  - Mainas Nikolaos (M.Sc.)
  - Malisova Ekaterini (M.Sc.)
  - Ninos Spyridon (M.Sc.)
  - Petrovski Stefan (M.Sc.)
  - Sfakianakis Stylianos (M.Sc.)
  - Stravoskoufos Constantinos (M.Sc.)
  - Veronikis Constantinos (M.Sc.)

- Undergraduate students supervised

  - Diploma theses in progress
    - Christodoulopoulos Christos
    - Geronymakis Theodoros
    - Kontogiannis Petros
    - Koutsouris Themistoklis
    - Lidas Stefanos
    - Troulitakis Apostolos

  - Diploma theses in progress (committee member)
    - Lyggeridis Christos
    - Saringelos Athanasios
    - Sidorakis Nikolaos

  - Diploma theses completed (committee member)
    - Kotsarinis Panagiotis
    - Kranas Ioannis
    - Sarri Efrosini
Name: Antonios Deligiannakis  
Rank: Associate Professor  
Years in rank: 2  
Full-time or part-time: Full-time  
Division: Computer Science  
Lab affiliation: Software Technology and Network Applications Laboratory (SoftNet)

A – Teaching

- Undergraduate courses taught  
  - COMP 102: Structure Programming (mandatory)  
  - COMP 516: Data Processing and Handling in Sensor Networks

- Graduate courses taught  
  - COMP 626: Data Processing and Handling in Sensor Networks  
    (Offered jointly with COMP 516)  
  - COMP 622: Special Issues in Database Systems

- Labs taught

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

B – Publications

- Publications in refereed journals  
  - Published:
• Publications in refereed conferences
  o Published:

C – Awards & Distinctions

D – Funded Projects

E – Professional service

• Conference Technical Program Committee service
  o SIGMOD - ACM SIGMOD International Conference on Management of Data 2015
  o VLDB - Very Large Data Bases 2014
  o ICDE - IEEE International Conference on Data Engineering 2014
  o CIKM - ACM International Conference on Information and Knowledge Management 2015, 2014
  o SDM - SIAM International Conference on Data Mining 2015

• Reviewing activities
  o TKDE - IEEE Transactions on Knowledge and Data Engineering 2015, 2014

F – Service to the Department and the School

• Departmental responsibilities

G – Advising

Undergraduate students supervised

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised (advisor, completed)
    ▪ Tsakonas Constantinos (M.Sc.)
  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Flouris Ioannis (Ph.D.)
    ▪ Charalambakis Stergios (Ph.D.)
    ▪ Igglezakis Antonios (M.Sc.)
    ▪ Bourdakis Savvas (M.Sc.)
    ▪ Manikaki Vasiliki (M.Sc.)
    ▪ Paloli Giorgo (M.Sc.)
- Ph.D. and M.Sc. awarded (committee member)
  - Karkasis Panagiotis (Ph.D.)
  - Alevizos Panagiotis (M.Sc.)
  - Asimoglou Ekaterini (M.Sc.)
  - Demertzis Ioannis (M.Sc.)
  - Konstantopoulos Christos (M.Sc.)
  - Skevakis Yannis (M.Sc.)

- Ph.D. and M.Sc. Degrees (committee member)
  - Alevizos Panagiotis (Ph.D.)
  - Toutoudakis Michail (Ph.D.)
  - Vazeos Evaggelos (Ph.D.)
  - Agadakos Nikolaos (M.Sc.)
  - Babalis Charalambos (M.Sc.)
  - Dilis Dimitrios (M.Sc.)
  - Kalokyri Varvara (M.Sc.)
  - Kasimatis Vasilios (M.Sc.)
  - Loizou Konstantinos (M.Sc.)
  - Mantakos Georgios (M.Sc.)
  - Mavromichelaki Evangelia (M.Sc.)
  - Nydriotis Apostolos (M.Sc.)
  - Pattakos Nikolaos (M.Sc.)
  - Petrovski Stephan (M.Sc.)
  - Skoulakis Ioannis (M.Sc.)
  - Thermolia Chryso (M.Sc.)
  - Tountas Konstantinos (M.Sc.)
  - Verykcoli Eleni – Aggela (M.Sc.)
  - Vlachou Georgia (M.Sc.)
  - Zervoudakis Nikolaos (M.Sc.)

- Undergraduate students supervised

  - Diploma theses in progress
    - Aretakis Constantinos
    - Didymiotis – Ventouris Georgios
    - Fragkakis Panteleimon
    - Giannopoulos Emmanuel
    - Tzimas Dimitrios

  - Diploma theses completed (supervisor)
    - Manikaki Vasiliki

  - Diploma theses in progress (committee member)
    - Aretakis Constantinos
    - Asiminakis Marios
    - Chorozoglou Dimitrios
    - Christodoulopoulos Christos
    - Dimitriou Georgios
    - Geronymakis Theodoros
    - Ioannou Kostas
    - Karamalegkos Emmanuel
    - Kastrinakis Marios
- Kontogiannis Petros
- Koutsouris Themistoklis
- Kyriakakis Dimitrios
- Lappas Dionysios
- Lidas Stephanos
- Lyggeridis Christos
- Malindretos Eleftherios
- Margaris Ioannis
- Panou Christos
- Phytanoglou Iordanis
- Smyrneos Dimitrios
- Soultanopoulos Theodoros
- Souris Anastasios
- Sourlantzis Sotirios
- Theodorou Theodoros
- Theodosiou Nikolas
- Troulitakis Apostolos
- Tsakalakis Georgios

Diploma theses completed (committee member)
- Balabanis Stylianos
- Bamiedakis Pananos Michael
- Daskalakis Spyridon Nektarios
- Dimitriou Marianna
- Grammenos Andreas
- Oikonomakos Panagiotis
- Paliatsa Dimitra
- Tountas Constantinios
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Minos Garofalakis
Rank: Professor
Years in rank: 7 years
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: SoftNet – Software Technology and Network Applications Laboratory (Director)

A – Teaching

- Undergraduate courses taught
  - COMP 401: Algorithms and Complexity (mandatory)
  - COMP 415: Advanced Topics in Database Systems

- Graduate courses taught
  - COMP 627: Processing and Analyzing Big Data

- Labs taught

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

B – Publications

- Publications in refereed journals
  - Submitted
  - Accepted:
  - Published:
    - Ekaterini Ioannou and Minos Garofalakis. “Query Analytics over Probabilistic Databases with Unmerged Duplicates”, IEEE Transactions on Knowledge and Data Engineering, Vol. 27, No. 8, August 2015.

• Publications in refereed conferences
  - Accepted:
  - Published:

• Books and edited book chapters

• Patents
C – Awards & Distinctions

D – Funded Projects

- Current projects:
  - FP7-ICT-2013 (Scalable Data Analytics Objective) Collaborative STREP Project: “FERARI – Flexible Event Processing for Big Data Architectures”
    - Total funding: 4.3Me, TUC budget: 693Ke
    - Role: Principal Investigator for TUC
  - FP7-ICT-2013 (Scalable Data Analytics Objective) Collaborative STREP Project: “QualiMaster – A Configurable Real-Time Data Processing Infrastructure Mastering Autonomous Quality Adaptation”
    - Total funding: 3.7Me, TUC/TSI budget: 915Ke
    - Role: Principal Investigator for TUC/TSI
  - FP7 FET Flagship Project: “The Human Brain Project”
    - Duration: 2013 – 2023
    - (Total funding: 1.2Be)
    - Role: Principal Investigator for TUC (in charge of brain data analytics)
  - FP7-ICT-2011 Collaborative STREP Project: “LEADS – Large-Scale Elastic Architecture for Data-as-a-Service”
    - Total funding: 2.9Me, TUC/TSI budget: 649Ke
    - Role: Principal Investigator for TUC/TSI

- Project proposals submitted:

E – Professional service

- Associate Editor duties
  - Encyclopedia of Database Systems (EDBS), 2nd Edition: Area Editor (Uncertain Data Management)
  - Foundations and Trends in Databases: Editorial Board Member (2006 - present)
  - Statistical Analysis and Data Mining (SAM): Associate Editor (2010 - present)
  - Knowledge and Information Systems: An International Journal (KAIS): Editorial Board Member (2010 - present)
  - Social Network Analysis and Mining (SNAM): Associate Editor (2013 - present)

- Society Technical Committee duties

- Conference Technical Program Committee service
• Conference Organization (specify role)
  o 2015 SIAM International Conference on Data Mining (SDM’2015), Vancouver, British Columbia, Canada: Senior PC Member
  o 2015 Workshop on Event Processing, Forecasting and Decision-Making in the Big Data Era (EPForDM’2015 – in conjunction with EDBT/ICDT’2015): PC Co-Chair

• Reviewing activities

F – Service to the Department and the School

• Departmental responsibilities
  o Software Technology and Network Applications Laboratory, Director

• School – level responsibilities

G – Advising

Undergraduate students supervised

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised (advisor, completed)
    ▪ Demertzis Ioannis (M.Sc.)
  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Kalantzaki Calliope (Ph.D.)
    ▪ Toutoudakis Michael (Ph.D.)
    ▪ Vazaios Evangelos (Ph.D.)
    ▪ Mavrommatis Alexandros (M.Sc.)
    ▪ Nydriotis Apostolos (M.Sc.)
    ▪ Pavlakis Nikolaos (M.Sc.)
  o Ph.D. and M.Sc. awarded (committee member)
    ▪ Chrysos Grigorios (Ph.D.)
    ▪ Asimoglou Ekaterini (M.Sc.)
    ▪ Nikolakaki Sofia – Maria (M.Sc.)
    ▪ Tsakonas Konstantinos (M.Sc.)
  o Ph.D. and M.Sc. Degrees (committee member)
    ▪ Arapi Polyxeni (Ph.D.)
    ▪ Charalambakis Stergios (Ph.D.)
    ▪ Drymonas Efthimios (Ph.D.)
    ▪ Flouris Ioannis (Ph.D.)
    ▪ Georgogiannis Alexandros (Ph.D.)
    ▪ Konstantakis Christos (Ph.D.)
    ▪ Liampa Irene (Ph.D.)
    ▪ Bourdakis Savvas (M.Sc.)
    ▪ Igglezakis Antonios (M.Sc.)
    ▪ Kalaitzis Konstantinos (M.Sc.)
    ▪ Kostoulas Georgios (M.Sc.)
- Manikaki Vasiliki (M.Sc.)
- Mantakos Georgios (M.Sc.)
- Michelioudakis Evangelos (M.Sc.)
- Ninos Spyridon (M.Sc.)
- Georgiladakis Spyridon (M.Sc.)
- Palolli Giorgo
- Preventis Alexandros (M.Sc.)
- Vlachou Georgia (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Smyrnaios Dimitrios
  - Diploma theses completed (supervisor)
    - Grammenos Andreas
  - Diploma theses in progress (committee member)
    - Aretakis Constantinos
    - Barberakis Stylianos
    - Boras Charalambos
    - Christodoulopoulos Christos
    - Didimiotis – Ventouris Georgios
    - Giannopoulos Emmanuel
    - Gompaki Efstathia
    - Gotsoulias Dimitrios
    - Kontogiannis Petros
    - Kritikakis Charalambos
    - Lappas Dionysios
    - Tzimas Dimitrios
  - Diploma theses completed (committee member)
    - Christodouleas Dimitrios
    - Douzis Constantinos
    - Giakoumakis Pavlos
    - Kotronia Maria
    - Manikaki Vasiliki
    - Mantakos Georgios
Name: Michail G. Lagoudakis
Rank: Associate Professor
Years in rank: 2
Full-time or part-time: Full-Time, but on paternity leave during this academic year
Division: Computer Science
Lab affiliation: Intelligent Systems Laboratory

A – Teaching

[Exemption from teaching due to paternity leave]

- Undergraduate courses taught
- Graduate courses taught
- Labs taught
- Curriculum & course development
  - New courses / labs developed
  - Lecture notes / slides developed

B – Publications

- Publications in refereed journals
  - Georgios Papadimitriou, Nikolaos I. Spanoudakis, Michail G. Lagoudakis, “Extending the Kouretes Statechart Editor for Generic Agent Behavior Development”, Proceedings of the 10th International Conference on Artificial Intelligence Applications and Innovations (AIAI), Rhodes, Greece, September
● Books and edited book chapters
  ○ 

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

● Reviewing activities

F – Service to the Department and the School

● Departmental responsibilities
  ○ Editor, Undergraduate Program Guide

● School – level responsibilities

G – Advising

● Graduate students
  ○ Ph.D and M.Sc. theses completed (supervisor)
  ○ Ph.D. and M.Sc. theses in progress (supervisor)
- Eleftherios Chatzilaris (M.Sc.), “Coordinated Action and Learning in RoboCup”, Enrollment: 2009
- Ioannis Skoulakis (M.Sc.), “Efficient Reinforcement Learning in Alternating Games”, Enrollment: 2010
- Emmanuil Orfanoudakis (M.Sc.), “Event Recognition in Underwater Robot Team Missions”, Enrollment: 2012
- Evangelos Michelioudakis (M.Sc.), “Event Recognition in Data Streams”, Enrollment: 2014

Ph.D and M.Sc. theses completed (committee member)
- Andrianakis Stamatis (M.Sc.), “Data Integration Approaches for Supporting Retrieval of Medical Information in the Web”, ECE, TUC, defended Jan 2015.

Ph.D and M.Sc. theses in progress (committee member)
- Akasiadis Charilaos (Ph.D.)
- Flouris Ioannis (Ph.D.)
- Fachantidis Anestis (Ph.D.), Dept of CS, AUTH
- Klasinas Ioannis (Ph.D.)
- Kontes Georgios (Ph.D.), School of PEM, TUC
- Koulieris Georgios–Alexandros (Ph.D.)
- Limnaios Georgis (Ph.D.), School of PEM, TUC
- Malakonakis Pavlos (Ph.D.)
- Stravoskoufos Konstantinos (Ph.D.)
- Angelidakis Angelos (M.Sc.)
- Bacharidis Konstantinos (M.Sc.)
- Dougias Lazaros (M.Sc.)
- Georgiadou Despoina (M.Sc.)
- Kalamvogia Athena (M.Sc.)
- Konstantinidis Konstantinos (M.Sc.)
- Kontadakis Grigoris (M.Sc.)
- Kydonakis Ares (M.Sc.)
- Loukeris Nikolaos (M.Sc.)
- Mamakos Michail (M.Sc.)
- Mavromichelaki Evangelia (M.Sc.)
- Mavrommatis Alexandros (M.Sc.)
- Mylonakis Emmanuel (M.Sc.)
- Pavlakis Nikolaos (M.Sc.)
- Preventis Alexandros (M.Sc.)
- Sifakis Ioannis (M.Sc.)
- Verykoldi Eleni–Angela (M.Sc.)
- Zervoudakis Nikolaos (M.Sc.)

- Undergraduate students
  Diploma theses completed (supervisor)
Diploma theses in progress (supervisor)

Diploma theses completed (committee member)

Diploma Theses in progress (committee member):
- Asiminakis Marios
- Chatzipetrou Constantinos
- Christianos Philippos
- Floros Efthimios
- Giannopoulos Emmanuel
- Gioti Varvara
- Ioannou Kostas
- Karamalegos Emmanuel
- Kastrinakis Georgios
- Lidas Stefanos
- Malindretos Eleftherios
- Phytanoglou Iordanis
- Savva Androula
- Sideris Panagiotis
- Theodorou Theodoros
A – Teaching

- Undergraduate courses taught
  - PLH 418 - Computer Graphics (Spring 2015)
  - PLH 101 – Introduction to Computers and Computer Science (Winter 2014)

- Graduate courses taught
  - PLH 612 – Visualization and Virtual Reality (Spring 2015)

- Curriculum & course development
  - Updated laboratory exercises for PLH 101
  - Updated large project work for PLH 418
  - Updated lab lectures to be based on UNITY3D PLH 612

B – Publications

- Publications in refereed journals
  - Published

- Publications in refereed conferences
  - Submitted

o Published


C – Awards & Distinctions


D – Funded Projects

• Current projects (at the Technical University of Crete, Greece):

• Project proposals submitted:
  o COSMOS3D: Software Controlled Corrective Optics for Customized Stereoscopy, submitted to ERC, ERC Consolidator grant 2015. PI Assoc. Prof. Katerina Mania.
  o Serious CAM: Serious Computer Aided Manufacturing, Erasmus+, PI Prof. Aristomenis Antoniadis, Co-PIs Prof. Nikos Bilalis, Assoc. Prof. Katerina Mania.

E – Professional service

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

• Steering Committee
  o ACM Siggraph Symposium on Applied Perception (previously ACM Siggraph Symposium on Applied Perception in Graphics and Visualization)

• Conference Technical Program Committee service - membership
  o Computer Graphics International 2016 (CGI 2016), in co-operation with ACM Siggraph, Greece
  o Edutainment 2016, China
  o Games and Learning Alliance conference (GALA 2015), Italy.
  o 1st International Gamification for Business Conference (IGBC) 2015, UK
  o IEEE Int. Conf. in Games and Virtual Worlds for Serious Applications (VSGames), sponsored by IEEE, 2014, 2015
- Reviewing activities
  - Various international conferences and journals

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

- Departmental responsibilities
  - Member of the Graduate Studies committee of ECE, 2014-2015
  - Studies’ advisor for the Dept. of ECE, 2014-2015

**G – Advising**

- Active graduate students supervised
  - Graduate students supervised
    - Giwrgos Alexandros Koulieris ‘Selective Rendering Algorithms based on Human Perception Memory Schemas’ (Ph.D candidate, accepted for admission to PhD program, defending September 2015)
    - Katerina Malisova ‘Conceptual 3D Visualization Methodologies’ (M.Eng. candidate)
    - Stefan Petrovski (MEng TUC): ‘Human-Centred Design Process for 3D Interfaces and Computer Graphics Simulations’ (M.Eng. candidate)
    - Grigoris Kontadakis (MEng TUC): ‘Pedagogically-driven Interactive 3D Applications’ (M.Eng. candidate)
    - Verykokidi Eleni – Angela (M.Eng. intermitted) ‘Interactive Immersive 3D Interfaces and Visualization’ (M.Eng. candidate)
  - Ph.D. and M.Eng. Degrees awarded (committee member, examiner)
    - Chlis Nikolaos Kosmas (M.Sc.)
    - Skevakis Giannis (M.Sc.)
    - Stylianakis Georgios (M.Sc.)
  - Ph.D. and M.Eng. Degrees (committee member)
    - Oikonomidis Dimitrios (Ph.D.)
    - Karalas Constantinos (M.Sc.)
    - Mylonakis Emmanuel (M.Sc.)
    - Palogiannidi Elisavet (M.Sc.)
    - Pitsiladis Andreas (M.Sc.)
    - Sifakis Ioannis (M.Sc.)
    - Syntzanaki Athena (M.Sc.)
    - Trochatou Ioanna (M.Sc.)
• Undergraduate students

  o Diploma theses completed (supervisor)
    ▪ Panagiotis Giannakouras ‘Combining Voice and Touch Modalities in Educational Games for Preschoolers’
    ▪ Froso Sarri ‘3D Photorealistic Reconstruction of Neoria based on Geodetic Measurements and Computer Graphics Techniques’
    ▪ Panagiotis Kotsarinis ‘Classification of Historical Monuments in Crete through a Web-based Scaleable 3D Platform’
    ▪ Marianna Dimitriou ‘Interactive storytelling for pre-school children’

  o Diploma theses supervised (in progress)
    ▪ Fotis Pegios ‘Advanced 3D Rendering Effects using a Field Programmable Gate Array’
    ▪ Christos Panou ‘An Outdoors Augmented Reality Application for Android featuring a Cultural Route through the Old Town of Chania’
    ▪ Nikos Sidorakis ‘Eye tracking Evaluation of a High-Level Visual Saliency Predictor’
    ▪ Nikos Sidorakis ‘Eye tracking Evaluation of a High-Level Visual Saliency Predictor’
    ▪ Iordanis Fytanoglou ‘Head Tracked Stereo Ski Simulation implemented on a High End Head Mounted Display’
    ▪ Christos Liggeridis ‘A 3D mobile Application for the Social Networking of an Academic Community’
    ▪ Dimitris Kiriakakis ‘Augmented Reality Applications for Mobile Platforms’
    ▪ Lefteris Malindretos ‘Development of a Role-Playing Game of Single and Multiple Players’
    ▪ Konstantinos Chatzipetrou ‘3D computer gaming for Smart Vehicular combat racing’
    ▪ Kostas Ioannou ‘3D Racing Game Development with Autonomous Opponents’
    ▪ Theodoros Theodorou ‘Development of a 3D real-time Strategy Game with Intelligent Opponent Behaviors’

• Diploma theses completed (committee member)
  ▪ Chalepakis – Dellis Dimitrios – Apostolos
  ▪ Skipetaris Demosthenes

• Diploma theses in progress (committee member)
  ▪ Dretaki Paraskevi
  ▪ Fragakis Panteleimon
  ▪ Geronimakis Theodoros
  ▪ Kirakosian Salva
  ▪ Koutsouris Themistoklis
  ▪ Mytakis Dimitrios
  ▪ Petronikolos Constantinos
- Petsas Dimitrios
- Pezoulas Vasilios
- Tryphonas Constantinos – Georgios
- Tsakaneli Stavroula
- Zafiriou Odysseas
Name: Euripides G.M. Petrakis
Rank: Professor
Years in rank: 2
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)
  - AIS 413: Multimedia Data Management

- Graduate courses taught
  - COMP 618: Special Topics in Information Systems

- Curriculum & course development
  - New courses / labs developed
    - Web Information Systems

B – Publications

- Publications in refereed journals
  - Submitted

- Publications in refereed conferences
  - Accepted:
    - Lenos Vakanas, Stelios Sotiadis, Euripides G.M. Petrakis, "Implementing the Cloud Software to Data Approach for OpenStack Environments"


- Spiros Georgiladakis, Christina Unger, Elias Iosif, Sebastian Walter, Philipp Cimiano, Euripides G.M. Petrakis, Alexandros Potamianos. "Fusion of Knowledge-Based and Data-Driven Approaches to Grammar Induction". In Proc. of Interspeech, Singapore (poster) 2014

C – Awards & Distinctions

D – Funded Projects

- Current projects:
  - "AI-CARE : Advanced Knowledge Management Systems with Inherence Computational Intelligence and Applications in Health Care", Funding Source:


E – Professional service

- Conference Technical Program Committee service
  - Perogram committee member, “International Symposium on Visual Computing (ISVC)”.
  - Conference on Image Analysis and Recognition (ICIAR'2010), Povoa-de-Vatzim, Portugal, 2014.

- Reviewing activities
  - IEEE TKDE, and various conferences

F – Service to the Department and the School

- Departmental responsibilities
  - Laboratory Director, Intelligent Systems Laboratory, Department of Electronic and Computer Engineering, Technical University of Crete

G – Advising

Undergraduate students supervised

- Active graduate students supervised
  - Post Docs Ph.D. and M.Sc. students supervised (advisor, completed)
    - Andrianakis S. Title: Data Integration Approaches for Supporting Retrieval of Medical Information in the Web Master's Thesis, School of Electronic and Computer Engineering, Technical University of Crete, January 2015. Year: 2015 (MSc Thesis)
    - Dr. Stelios Sotiriadis (2013 – 2015), Cloud Computing, PhD Dept. of Computer Science, Univ. of Durby, UK (Post Doc).

- Ph.D. and M.Sc. students supervised (advisor, in progress)
  - Kostantinos Stravoskoufos, PhD Student, “Service Discovery in Cloud Infrastructures”, in progress (in progress).
  - Chryssi Thermolia, MSc Student “An Ontological-Based Monitoring System for Patients with Bipolar I Disorder” (in progress)
  - Alexandros Preventis, MSc Student “Service Deployment on the Cloud” (in progress)
  - Mainas Nikolaos “Service Interoperability in Clouds” (in progress)
- Ph.D. and M.Sc. Degrees (committee member)
  - Malandrakis Nikolaos (Ph.D.)
  - Livanos Georgios (Ph.D)
  - Moirogiorgou Constantia (Ph.D.)
  - Oikonomidis Dimitrios (Ph.D.)
  - Rexakis Ioannis (Ph.D.)
  - Chorianopoulou Arodami (M.Sc.)
  - Christoulakis Marios (M.Sc.)
  - Giannoudaki Maria (M.Sc.)
  - Kydonakis Ares (M.Sc.)
  - Palloli Giorgo (M.Sc.)
  - Pitsiladis Andreas (M.Sc.)
  - Trochatou Ioanna (M.Sc.)
  - Xifaras Constantinos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Kargatzis Dimitrios
    - Kostopoulos Panagiotis
    - Soultanopoulos Theodoros
  - Diploma theses completed (supervisor)
    - Vakanas L. Title: Implementation of the Cloud Software to Data Approach in an OpenStack Environment, September 2015.
    - Douzis K. Title: IoT management on the Cloud June 2015.
    - Balabanis S. Title: Sensing Motion in the Cloud March 2015.
  - Diploma theses in progress (committee member)
    - Aretakis Constantinos
    - Bikas Dimitrios
    - Chorozoglou Dimitrios
    - Leska Valsamo
    - Pogkas Nektarios
    - Tsakaneli Stavroula
  - Diploma theses completed (committee member)
    - Alevyzaki Androniki
    - Tsigdinos Stylianos
Technical University of Crete  
School of Electronic & Computer Engineering  
Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Vasilis Samoladas  
Rank: Assistant Professor  
Years in rank: 11 years  
Full-time or part-time: Full-time  
Division: Computer Science  
Lab affiliation: Software Technology and Network Applications Laboratory

A – Teaching

● Undergraduate courses taught
  o COMP 301 : Operating Systems (mandatory)  
  o COMP 402 : Theory of Computation  
  o COMP 420 : Principles of Distributed Software Systems

● Graduate courses taught
  o COMP 602 : Principles of Distributed Software Systems  
    (Offered jointly with COMP 420)  
  o COMP 628 : Computational Geometry

● 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

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

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 supervised (advisor, completed)
    ▪ Asimoglou Ekaterini (M.Sc.)
  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Hatzisymeon Georgios (Ph.D.)
    ▪ Babalis Charalambos (M.Sc.)
    ▪ Mantakos Georgios (M.Sc.)
    ▪ Ninos Spyridon (M.Sc.)
    ▪ Kasimatis Vasilios (M.Sc.)
    ▪ Vlahou Georgia (M.Sc.)
  o Ph.D. and M.Sc. degrees awarded (committee member)
    ▪ Karkasis Panagiotis (Ph.D.)
    ▪ Andrianakis Stamati (M.Sc.)
- Koidis Joseph (M.Sc.)
- Stylianakis Georgios (M.Sc.)

- Ph.D. and M.Sc. Degrees (committee member)
  - Charalambakis Stergios (Ph.D.)
  - Kalantzaki Calliope (Ph.D.)
  - Toutoudakis Michail (Ph.D.)
  - Tripolitakis Evaggelos (Ph.D.)
  - Vazeos Evaggelos (Ph.D.)
  - Bervanakis Marcos (M.Sc.)
  - Bourdakis Savvas (M.Sc.)
  - Christoulakis Marios (M.Sc.)
  - Nydriotis Apostolos (M.Sc.)
  - Galanommatis Ioannis (M.Sc.)
  - Mamakos Michail (M.Sc.)
  - Manikaki Vasiliki (M.Sc.)
  - Skoulakis Ioannis (M.Sc.)

- Undergraduate students supervised

  - Diploma theses in progress
    - Bikas Dimitrios
    - Chorozoglou Dimitrios
    - Lappas Dionysios

  - Diploma theses completed (supervisor)

  - Diploma theses in progress (committee member)
    - Barberakis Stylianos
    - Drakoulaki Eleni
    - Iggilis Anastasia
    - Kargatzis Dimitrios
    - Koukousoulas Pantelis
    - Margaris Ioannis
    - Pissadakis Emmanuel
    - Pouli Christina
    - Smyrnaios Dimitrios
    - Taxiarchis Vaios
    - Troulitakis Apostolos
    - Varikos Antonios
    - Vogiatzis Constantin

  - Diploma theses completed (committee member)
    - Grammenos Andreas
    - Klotsonis Alcibiades
    - Manikaki Vasiliki
    - Papadimitriou Georgios
    - Petridis Nikolaos
Electronics and Computer Architecture Division

Faculty Members

- Balas Costas, Professor
- Bucher Matthias, Assistant Professor
- Dollas Apostolos, Professor
- Kalaitzakis Kostas, Professor
- Koutroulis Eftichios, Assistant Professor
- Papaefstathiou Ioannis, Associate Professor
- Pnevmatikatos Dionisios, Professor
- Stavrakakis Georgios, Professor
Name: Costas Balas
Rank: Professor
Years in rank: 1
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Electronics Laboratory, Director

A – Teaching

- Undergraduate courses taught
  - ACE 204: Electronics I (mandatory)
  - ACE 412: Optoelectronics
  - ACE 513: Biomedical Technology

- Graduate courses taught
  - ACE 614: Optoelectronics
    (Offered jointly with ACE 412)
  - ACE 603: Special Topics in Optoelectronic Biomedical Technology

- 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:
    - 

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

F – Service to the Department and the School

- Departmental responsibilities
  - Director of the Electronics Lab
- School – level responsibilities

G – Advising

- Active graduate students supervised
• Ph.D. and M.Sc. students supervised (advisor, completed)
  ▪ Papoutsoglou Georgios (Ph.D.)

• Ph.D. and M.Sc. students supervised (advisor, in progress)
  ▪ Tsapras Athanasios (Ph.D.)
  ▪ Giakoumakis Theodoros – Marios (M.Sc.)
  ▪ Epitropou Giorgos (M.Sc.)
  ▪ Rossos Christos (M.Sc.)

• Ph.D. and M.Sc. degrees awarded (committee member)
  ▪ Chlis Nikolaos Kosmas (M.Sc.)
  ▪ Papathanasiou Constantinos (M.Sc.)

• Ph.D. and M.Sc. Degrees (committee member)
  ▪ Koulieris Georgios Alexandros (Ph.D.)
  ▪ Mavredakis Nikolaos (Ph.D.)
  ▪ Rozakis Georgios (Ph.D.)
  ▪ Jaohar Osman (M.Sc.)
  ▪ Kostopoulos Constantinos (M.Sc.)
  ▪ Gyroukis Georgios (M.Sc.)
  ▪ Savvakos Charalampos (M.Sc.)
  ▪ Vourlaki Ioanna – Theoni

• Undergraduate students supervised

  o Diploma theses in progress
    ▪ Boras Charalampos
    ▪ Dousakis Alexandros
    ▪ Dretaki Paraskevi
    ▪ Emmanouilides Constantinos
    ▪ Gotsoulias Dimitrios
    ▪ Margaris Ioannis
    ▪ Sioutas Apostolos
    ▪ Symou Andreas
    ▪ Petronikolos Constantinos
    ▪ Savva Androula
    ▪ Zafiriou Odysseas
    ▪ Vogiatzis Constantinos

  o Diploma theses completed (supervisor)
    ▪ Kranas Ioannis
    ▪ Petridis Nikolaos

  o Diploma theses in progress (committee member)
    ▪ Diamantis Christos
    ▪ Drakos Vissarios
    ▪ Gegios Nikolaos
    ▪ Gompaki Efstatia
    ▪ Kokkonas Dimitrios
    ▪ Leledakis Dimitrios
- Leska Valsamo
- Manarolis Xenophon
- Pappas Nikolaos
- Sidorakis Nikolaos

  - Diploma theses completed (committee member)
    - Fellas Constantinos
    - Kompotheklas Constantinos
    - Kotronia Maria
    - Kouloumentas Panagiotis
    - Tzivelopoulos Ioannis
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Matthias Bucher
Rank: Associate Professor
Years in rank: 1
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Electronics

A – Teaching

- Undergraduate courses taught
  - ACE 301 : Electronics II (mandatory)
  - ACE 416 : Design of CMOS Analog Integrated Circuits

- Graduate courses taught
  - ACE 604 : Special Themes of Analog Integrated Circuit Design

- Labs taught
  - ACE 301 : Electronics II – Laboratory (mandatory)
  - ACE 416 : Design of CMOS Analog Integrated Circuits – Laboratory

B – Publications

- Publications in refereed journals
  - Submitted:
  - Accepted:
Bucher, "4H-SiC VJFETs with self-aligned contacts", Materials Science Forum.

- Published:


- Publications in refereed conferences
  - Published:
    - N. Mavredakis, P. Habas, A. Acovic, R. Meyer, M. Bucher, “Variability of Low Frequency Noise in Moderately-Sized MOSFETs - A Model for the Area- and Gate Voltage-Dependence”, Int. Conf. on Noise and Fluctuations (ICNF), Xi’an, People’s Republic of China, June 2-6, 2015. ieeexplore
    - N. Mavredakis, W. Pflanzl, E. Seebacher, T. Gneiting, M. Bucher, "Analysis of Drain Bias Dependence of 1/f Noise in HV-MOSFETs", Int. Conf. on Noise and Fluctuations (ICNF), Xi’an, People’s Republic of China, June 2-6, 2015. ieeexplore

C – Awards & Distinctions

D – Funded Projects

- Current projects:

- Project proposals submitted:
E – Professional service

- Conference Technical Program Committee service

- Reviewing activities
  - IEEE Trans. on Electron Devices
  - IEEE Trans. on Microwave Theory and Techniques
  - Solid-State Electronics
  - Microelectronic Engineering
  - Several international conferences (IEEE ISCAS 2015, MIXDES 2015)

F – Service to the Department and the School

- School – level responsibilities
  - Member of the undergraduate studies committee.
  - Member of the committee for the admission of undergraduate students.

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)

  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Mavredakis Nikolaos (Ph.D.). Noise in high-voltage MOSFETs (HVMOSFETS), Enrollment: July 2010. Phone 28210 37269.
    - Kostopoulos Konstantinos (M.Sc.). Modelling and characterization of High-Voltage and High-Power FETs, Enrollment: Oct. 2010. Phone 28210 37269.

- Undergraduate students supervised
  - Diploma theses completed (supervisor)
    - Tsivelopoulos Yannis, Statistical analysis of low frequency noise and comparison between different types of CMOS transistors, June 2015.

  - Diploma theses in progress
    - Diamantis Christos
    - Drakos Vissarios
- Gegios Nikolaos
- Kokkonas Dimitrios
- Manarolis Xenophon
- Papadopoulou Alexia
- Pappas Nikolaos

  - Diploma theses in progress (committee member)
    - Emmanouilidis Konstantinos
    - Sioutas Apostolos

  - Diploma theses completed (committee member)
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Apostolos Dollas
Rank: Professor
Years in rank: 14
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Microprocessor and Hardware Laboratory

A – Teaching

- Undergraduate courses taught
  - COMP 101: Introduction to the field of ECE (mandatory)
  - ACE 101: Logic Design (mandatory)
  - ACE 203: Advanced Logic Design (mandatory)
  - ACE 411: Embedded Systems Design
  - ACE 415: Computer Architecture

- Graduate courses taught
  - ACE 606: Embedded Systems Design

- Labs taught
  - Supervised the labs of ACE 101
  - Supervised the labs of ACE 203, which were revised with new laboratory exercises for hands-on lab experience with Xilinx Spartan FPGA’s.

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

- Publications in refereed conferences
  - Published:

- Books and edited book chapters

C – Awards & Distinctions

D – Funded Projects

- Current projects:
  - Project “ROTA- Design and Development of a Novel System for the Telemangement of Ships with High-Speed Internet Bidirectional Communications”, Greek Secretariat of Research and Technology GSRT under program Synergasia, funded at 300,000 Euros (Telecommunication Systems Institute - TSI Budget 66,378 Euros), 2010 (3-year project – under completion).
E – Professional service

- Conference Technical Program Committee service
  - Program Committee Member, 24th IEEE/ACM International Symposium on Field Programmable Logic (FPL), Munich, Germany, Sept. 2-4, 2014.
  - Programmable Technology (FPT, IEEE Sponsored), Shanghai, China, December 10-12, 2014.
  - Program Committee Member, International Conference on Field Programmable Technology (FPT, IEEE Sponsored), Queenstown, New Zealand, December 7-9, 2015

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

- Reviewing activities
  - Several international conferences, including all in which I participate in the program committee and journals, as well as project proposals reviewed for internal state funding in Poland and Switzerland

F – Service to the Department and the School

Dean of ECE (since September, 2013)

- Departmental responsibilities
  - Dean of ECE (since September, 2013)
  - Ex-officio Chairman of the Dean’s Council
  - Ex-officio member of the ad hoc Undergraduate Studies Committee
  - Ex-officio member of the ad hoc Graduate Studies Committee
  - Ex-officio coordinator of Faculty Election Boards for the School of ECE at TUC
  - Faculty Advisor to the 1st semester students
  - Member, Undergraduate Studies Committee
  - 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.
  - Member of faculty election boards at the U. of Athens, U. of Ioannina

- School – level responsibilities
  - Ex-officio member of the University Senate, TUC
  - Ex-officio member of the TUC Student Services Committee
  - Ex-officio member of the TUC Property Development and Exploitation Committee
G – Advising

Undergraduate students supervised

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Chrysos Grigorios (Ph.D.)
    - Nikolakaki Sofia – Maria (M.Sc.)
    - Rematska Georgia (M.Sc.)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Malakonakis Pavlos (Ph.D.)
    - Apostolakis Stavros (M.Sc.)
    - Elias Anargyros (M.Sc.)
    - Kalaitzis Constantinios (M.Sc.)
    - Kousanakis Emmanuel (M.Sc.)
    - Maragoudakis Petros (M.Sc.)
    - Nikoloudakis Georgios (M.Sc.)
    - Rousopoulos Christos (M.Sc.)
    - Smerdis Miltiades (M.Sc.)
    - Veronikis Constantinios (M.Sc.)
  - Ph.D. and M.Sc. degrees awarded (committee member)
    - Karkasis Panagiotis (Ph.D.)
    - Koidis Joseph (M.Sc.)
  - Ph.D. and M.Sc. Degrees (committee member)
    - Brokalakis Andreas (Ph.D.)
    - Chatzivasilis Georgios (Ph.D.)
    - Fysarakis Constantinos (Ph.D.)
    - Ioannou Angelos (Ph.D.)
    - Tampouratzis Nikolaos (Ph.D.)
    - Bardis Stamatios (M.Sc.)
    - Charitopoulos Georgios (M.Sc.)
    - Galanommatakis Ioannis (M.Sc.)
    - Kalodimas Panagiotis (M.Sc.)
    - Kartsonakis Ioannis (M.Sc.)
    - Miteloudi Constantina (M.Sc.)
    - Perdikakis Apostolos (M.Sc.)
    - Savvakos Charalambos (M.Sc.)
    - Strataki Eleni (M.Sc.)
    - Vatsolakis Charalambos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Andreopoulos Marios
    - Bozikas Dimitrios
    - Drosopoulos Andreas
    - Fotinopoulos Georgios
    - Kokkonis Theodore
    - Koukousoulas Pantelis
    - Kouinis Constantinos
- Kritikakis Charalambos
- Malandrakis Miller Georgios
- Marinaki Effichia
- Michaelides Stavros
- Mitakis Dimitrios
- Mourtzanos Triantaphyllos
- Prokas Nikolaos
- Sotiropoulos Antonios
- Spyrou Angeliki
- Varsamidis Harisis

- Diploma theses completed (supervisor)
  - Filos Vasilios
  - Gardelakos Argirios Alexandros
  - Giakoumakis Pavlos
  - Kalaitzis Konstantinos
  - Kousanakis Emmanuel
  - Pialoglou Alexandros
  - Veremi Christina

- Diploma theses in progress (committee member)
  - Alexandris Nikolaos
  - Andronikakis Andreas
  - Andronikidis Georgios
  - Athanasiou Vasiliou
  - Chondroulis Ioannis
  - Demertzis Eleftherios
  - Doitsinis Ioannis
  - Drakoulaki Eleni
  - Iggilis Anastasia
  - Katsinelis Constantin
  - Kontos Nikolaos
  - Malavazos Constantin
  - Panagidis Giannakis
  - Papadopoulou Sofia
  - Pegios Fotios
  - Pentafragas Georgios
  - Pouli Christina
  - Tampakakis Ioannis
  - Taxiarhis Vaios
  - Theodoroglaki Ioanna
  - Tryphonas Constantin
  - Vatsithianos Nikolaos

- Diploma theses completed (committee member)
  - Farantos Georgios
  - Karatzafi Efstatios Alexandros
  - Kasambalis Vasiliou
  - Kyritsis Sarantos
  - Kranas Ioannis
  - Mantakos Nikolaos
Technical University of Crete  
School of Electronic & Computer Engineering  

Annual Activity Report  

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Kostas Kalaitzakis  
Rank: Professor  
Years in rank: 12  
Full-time or part-time: Full-time  
Division: Electronics and Computer Architecture  
Lab affiliation: Electric Circuits & Renewable Energy Sources

A – Teaching

- Undergraduate courses taught  
  - ACE 202: Electric Circuits Analysis (mandatory)  
  - ACE 414: Electric Measurements and Sensors

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

- Labs taught
  - 

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

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:
  0 
  0 

- Project proposals submitted:
  0 

E – Professional service

- Associate Editor duties
  0 

- Society Technical Committee duties
  0 

- Conference Technical Program Committee service
  0 

- Conference Organization (specify role)
  0 

- Reviewing activities
  0 

F – Service to the Department and the School

- Departmental responsibilities
  o Electric Circuits & Renewable Energy Sources Lab, Director

- School – level responsibilities
  0 

G – Advising

Undergraduate students supervised

- Active graduate students supervised
  o Ph.D. and M.Sc. students supervised (advisor, completed)
  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    • Vasilomichelaki Ariadni (Ph.D.)
    • Brellas Constantinos (M.Sc.)
    • Fytraki Evangelia (M.Sc.)
- Malisovas Athanassios (M.Sc.)

- Ph.D. and M.Sc. degrees awarded (committee member)
  - Papoutsoglou Georgios (Ph.D.)
  - Lyronis Antonios (M.Sc.)
  - Mandourarakis Ioannis (M.Sc.)
  - Papathanasiou Constantinos (M.Sc.)

- Ph.D. and M.Sc. Degrees (committee member)
  - Mavredakis Nikolaos (Ph.D.)
  - Tsapras Athanassios (Ph.D.)
  - Blazakis Konstantinos (M.Sc.)
  - Chatzidakis Panagiotis (M.Sc.)
  - Christeas Dimitrios (M.Sc.)
  - Gyroukis Georgios (M.Sc.)
  - Kalodimas Panagiotis (M.Sc.)
  - Kostopoulos Konstantinos (M.Sc.)
  - Syntzanaki Athena (M.Sc.)
  - Viskadouraki Evangelia (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Achillas Dimitrios
    - Andrianopoulos Georgios
    - Aronis Spyridon
    - Efthimiou Georgios
    - Gentsis Charalambos
    - Kalogridis Stylianos
    - Leledakis Dimitrios
    - Liontiris Andreas
    - Papantonakis Theodosios
    - Parlanis Dimitrios
    - Psychogios Marios
    - Sfakianakis Constantinos
    - Spyridakis Georgios
    - Zacharias Panagiotis

  - Diploma theses completed (supervisor)
    - Afentoulis Dimitrios
    - Alexopoulos Dimitrios
    - Brellas Constantinos
    - Chatziagapoglou Constantinos
    - Dalaperas Georgios
    - Klotsonis Alcibiades
    - Kompotheklas Constantinos
    - Lathiotakis Ares
    - Michael Nikolaos
    - Nikolaou Spyridon
    - Soulitis Vasiliou

  - Diploma theses in progress (committee member)
    - Dimitriadis Constantinos
Diploma theses completed (committee member)

- Alnatsheh Bassam
- Andrianopoulos Timoleon
- Kalogeropoulos Marios
- Kantartzis Theodoros
- Mastorakis Lambros
- Milionis Georgios Alexandros
- Neofytou Neofytos
- Nikolakakis Eleftherios
- Veremi Christina
Technical University of Crete
School of Electronic & Computer Engineering
Annual Activity Report

Name: Eftichios Koutoulis
Rank: Assistant Professor
Years in rank: 3.5
Full-time or part-time: Full – Time
Division: Electronics and Computer Architecture
Lab affiliation: Electric Circuits and Renewable Energy Sources Laboratory

A – Teaching

- Undergraduate courses taught
  - ACE 102: Basic Circuit Theory (mandatory)
  - ACE 511: VLSI and ASIC System Design

- Graduate courses taught
  - ACE 601: VLSI and ASIC System Design (offered jointly with ACE 511)
  - ACE 635: Special Topics on Energy Management Electronic Systems

- Curriculum & course development
  - Lecture notes / slides developed
    - ACE 511 - VLSI and ASIC System Design: updated the existing slides
    - ACE 102 - Basic Circuit Theory: updated the existing slides
    - ACE 635 - Special Topics on Energy Management Electronic Systems: updated the existing slides

B – Publications

- Publications in refereed journals
  - Published:
• Publications in refereed conferences
  
  o Published:

  
  
  
  
  

• Patents


C – Awards & Distinctions

D – Funded Projects

• Current projects:

General Secretariat of Research and Technology, Budget: € 467,440,00, Duration: Jun. 2013 – Jun. 2015

• Project proposals submitted:
  o ERANETMED “Energy-Water Nexus” call

E – Professional service

• Associate Editor duties
  o Member of the Editorial Board of the “Renewable Energy” journal.

• Conference Organization (specify role)
  o Session Chair at the “2015 IEEE International Conference on Industrial Technology (ICIT)”, March 17-19, 2015, Seville, Spain.

• Reviewing activities
  o Performed 97 reviews of journal papers (including revisions) for:
    IEEE Journal of Photovoltaics
    IEEE Transactions on Power Electronics
    IEEE Transactions on Industrial Electronics
    IEEE Journal of Emerging and Selected Topics in Power Electronics
    IEEE Transactions on Circuits and Systems II
    IEEE Transactions on Energy Conversion
    IEEE Transactions on Industrial Informatics
    IEEE Transactions on Industry Applications
    IEEE Transactions on Sustainable Energy
    IEEE Transactions on Instrumentation & Measurement
    Renewable Energy
    Electric Power Components and Systems
    IET Electronics Letters
    Energy
    Mathematics and Computers in Simulation
  o Reviewed one new book proposal for WILEY.

F – Service to the Department and the School

• School – level responsibilities
  o School coordinator for the ERASMUS program
  o Editing of the postgraduate program guide (in Greek)
  o Undergraduate studies advisor
G – Advising

Undergraduate students supervised

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Konstantopoulos Christos (M.Sc.)
    - Mandourarakis Ioannis (M.Sc.)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Chatzidakis Panagiotis (M.Sc.)
    - Christeas Dimitrios (M.Sc.)
    - Loizou Constantinos (M.Sc.)
  - Ph.D. and M.Sc. degrees awarded (committee member)
    - Pantzekos Panagiotis (Ph.D.)
    - Aggelidakis Aggelos (M.Sc.)
    - Daskalakis Spyridon Nektarios (M.Sc.)
    - Dilis Dimitrios (M.Sc.)
    - Malisovas Athanasios (M.Sc.)
    - Oikonomakos Panagiotis (M.Sc.)
    - Viskadouraki Evaggelia (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Dimitriadis Constantinos
    - Dimitriou Georgios
    - Giannopoulos Asimakis
    - Kosmopoulos Stefanos
    - Koukouzas Christos
    - Lukas Georgios
    - Petrakis Emmanuel
    - Politis Vasiliios
    - Tryphonas Constantinos – Georgios
    - Tzortzis Ioannis
    - Vatsithianos Nikolaos
  - Diploma theses completed (supervisor)
    - Chatzimeletiou Vlasios
    - Nikolakakis Eleftherios
  - Diploma theses in progress (committee member)
    - Bitzanakis Josef
    - Christianos Philipppos
    - Kalogridis Stylianos
    - Kokkonas Dimitrios
    - Kokkonis Theodora
    - Manarolis Xenophon
    - Sfakianakis Constantinos
- Zacharias Panagiotis

  - Diploma theses completed (committee member)
    - Alnatsheh Bassam
    - Andrianopoulos Timoleon
    - Daskalakis Spyridon – Nektarios
    - Fellas Constantinos
    - Kasambalis Vasilios
    - Kompoteklas Constantinos
    - Neophytou Neophytos
    - Skipetaris Demosthenes
    - Soultis Vasilios
    - Papapostolou Anastasios
Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Ioannis Papaefstathiou
Rank: Associate Professor
Years in rank: 4
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Microprocessor and Hardware Laboratory

A – Teaching

Exemption from teaching due to Sabbatical Leave

B – Publications

- Publications in refereed journals
  - Published:
    - K. Fysarakis, G. Hatzivasilis, C. Manifavas, I. Papaefstathiou, “RtVMF – A secure Real-time Vehicle Management Framework with critical incident response”, IEEE Pervasive Computing, Special Issue on Smart Vehicle Spaces (Accepted)
• Publications in refereed conferences
  o Published:

C – Awards & Distinctions

D – Funded Projects

• Current projects:
  o Energy-efficient Heterogeneous Computing at Exascale (ECOSCALE), Information and Communication Technologies European seventh framework, Award Period October 2015 – September 2018, Overall Funding €4.2M, Budget : €770K. Technical Manager

E – Professional service

• Conference Technical Program Committee service
  o IEEE FPL
  o IEEE ISWCS
  o IEEE ICEAC
  o IEEE ICNC
  o IEEE UCHPC

• Reviewing activities
  o Regular reviewer for Elsevier Microprocessors and Microsystems Journal,
  o Regular reviewer for IEEE Transactions on Circuits and Systems for Video Technology
  o Regular reviewer for ACM Transactions on Reconfigurable Technology and Systems
  o Regular reviewer for IEEE Transactions on Parallel and Distributed Systems
  o Regular Reviewer for IEEE Design & Test
o Regular Reviewer for IEEE Transactions on Circuits and Systems for Video Technology

F – Service to the Department and the School

Exemption due to Sabbatical Leave

G – Advising

Undergraduate students supervised

• Active graduate students supervised
  
o Ph.D. and M.Sc. students supervised (advisor, completed)
    ▪ Karkasis Panagiotis (Ph.D.)
  
o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Brokalakis Andreas (Ph.D.)
    ▪ Chatzivasilis Georgios (Ph.D.)
    ▪ Fysarakis Constantinos (Ph.D.)
    ▪ Ioannou Angelos (Ph.D.)
    ▪ Tampouratzis Nikolaos (Ph.D.)
    ▪ Bardis Stamatios (M.Sc.)
    ▪ Kalodimas Panagiotis (M.Sc.)
    ▪ Kartsonakis Ioannis (M.Sc.)
    ▪ Miteloudi Constantina (M.Sc.)
    ▪ Pattakos Nikolaos (M.Sc.)
    ▪ Perdikakis Apostolos (M.Sc.)
    ▪ Savvakos Charalampos (M.Sc.)
    ▪ Stratakis Eleni (M.Sc.)
  
o Ph.D. and M.Sc. degrees awarded (committee member)
    ▪ Chrysos Grigorias (Ph.D.)
    ▪ Nikolakaki Sofia – Maria (M.Sc.)
    ▪ Rematska Georgia (M.Sc.)
  
o Ph.D. and M.Sc. Degrees (committee member)
    ▪ Malakonakos Paulos (Ph.D.)
    ▪ Moiragioriou Constantia (Ph.D.)
    ▪ Apostolakis Stavros (M.Sc.)
    ▪ Babalis Charalamvos (M.Sc.)
    ▪ Bacharidis Constantinos (M.Sc.)
    ▪ Charitopoulos Georgios (M.Sc.)
    ▪ Elias Anargyros (M.Sc.)
    ▪ Kalaitzis Constantinos (M.Sc.)
    ▪ Nikoloudakis Georgios (M.Sc.)
    ▪ Pentari Anastasia (M.Sc.)
    ▪ Smerdis Miliades (M.Sc.)
    ▪ Vatsolakis Charalampos (M.Sc.)
Undergraduate students supervised

- Diploma theses in progress
  - Alexandris Nikolaos
  - Athanasiou Vasilios
  - Chondroulis Ioannis
  - Demertzis Eleftherios
  - Kontos Nikolaos
  - Malavazos Constantinos
  - Panagidis Giannakis
  - Papadopoulou Sofia
  - Pogas Nektarios
  - Sourlantzis Sotirios
  - Theodoroglaki Ioanna

- Diploma theses completed (supervisor)
  - Farantos Georgios
  - Mantakos Georgios
  - Karatzasferis Efstathios – Alexandros
  - Kyritsis Sarantos

- Diploma theses in progress (committee member)
  - Andreopoulos Marios
  - Andronikidis Georgios
  - Bozikas Dimitrios
  - Drosopoulos Andreas
  - Fotinopoulos Georgios
  - Kirakosian Salva
  - Kouinis Constantinos
  - Pegios Fotios
  - Politis Vasilios
  - Prokas Nikolaos
  - Sotiropoulos Antonios
  - Spyrou Aggeliki
  - Varkos Antonios
  - Varsamidis Harisis

- Diploma theses completed (committee member)
  - Filos Vasilios
  - Giakoumakis Pavlos
  - Kalaitzis Constantinos
  - Pialoglou Alexandros
A – Teaching

- Undergraduate courses taught
  - ACE 201: Digital Computers (mandatory)
  - ACE 302: Computer Organization (mandatory)
  - ACE 411: Embedded Systems Design (w/ Prof A. Dollas)
  - ACE 415: Computer Architecture (w/ Prof A. Dollas)
  - ACE 418: Parallel and Distributed Computer Architecture

- Graduate courses taught
  - ACE 613: Parallel and Distributed Computer Architecture
    (Offered jointly with ACE 418)

- Labs taught
  - ACE 201: Digital Computers (mandatory)
  - ACE 302: Computer Organization (mandatory)
  - ACE 415: Computer Architecture (w/ Prof A. Dollas)

- Curriculum & course development
  - New courses / labs developed
    - Lecture notes / slides developed
      - ACE 411: Embedded Systems Design (w/ Prof A. Dollas)
      - ACE 302: Computer Organization (mandatory)
      - ACE 411: Embedded Systems Design (w/ Prof A. Dollas)
      - ACE 418: Parallel and Distributed Computer Architecture

  - Authored textbooks
B – Publications

- Publications in refereed journals
  - Published:

- Publications in refereed conferences
  - Published:
George Charitopoulos, Iosif Koidis, Kyprianos Papadimitriou, Dionisios Pnevmatikatos: "Hardware Task Scheduling for Partially Reconfigurable FPGAs", International Symposium on Applied Reconfigurable Computing (ARC), Bochum, Germany, April 2015. Pages 487-498, DOI: 10.1007/978-3-319-16214-0_45

- Books and edited book chapters

- Patents

**C – Awards & Distinctions**

“Significant paper” (or test-of-time) award, FPL conference. Paper:

“Fast, Large-Scale String Match for a 10Gbps FPGA-based Network Intrusion Detection System”, 13th International Conference on Field Programmable Logic and Applications (FPL), September 1-3, 2003, Lisbon – Portugal

was selected among the 27 papers with the most impact from the first 25 years of the FPL conference (number of citations and citations over time) and awarded on FPL 2015.

**D – Funded Projects**

- Current projects:
  o “mCluster : Development of Standard Integrated Infrastructure for the resolution of complex computational problems”, Funding Source : General Secretariat for Research and Technology, Budget : € 99.000,00, Duration : Apr. 2014 – Jul. 2015
  o Departmental Practical Training Program

- Project proposals submitted:
  o Approved EXTRA, H2020, FET-HPC, Sept 2015-Aug 2018
  o Approved: dRedBox, H2020, Low Power Jan 1, 2016 – Dec 31 2018
  o Submitted SERFER, H2020, Internet of Things.
E – Professional service

- Conference Technical Program Committee service
  - DATE, FPL, IC-SAMOS, ICCD, Reconfig, RAW, VLSI-Soc, WRC, PACET, ParaFPGA

- Reviewing activities
  - Technical expert: Corallia Microelectronics Cluster
  - Technical expert: Artemis June 2013, June 2014
  - Proposal Evaluator: Eurostars 2013, 2014

- Reviewing activities
  - Journals: ACM TACO, TRETS, ETRI, MICPRO, Hindawi

F – Service to the Department and the School

- Departmental responsibilities
  - Director, Microprocessor and Hardware Laboratory

- School – level responsibilities
  - Member of the School internal Evaluation Committee (OMEA)
  - Member of the Undergraduate Studies Committee
  - PI of the Undergraduate Practical Training Program
  - Undergraduate Advisor

G – Advising

Undergraduate students supervised

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Koidis Iosif (M.Sc.)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Charitopoulos Georgios (M.Sc.)
    - Galanommatis Ioannis (M.Sc.)
    - Vatsolakis Charalambos (M.Sc.)
  - Ph.D. and M.Sc. degrees awarded (committee member)
    - Chrysos Grigori (Ph.D.)
    - Karkasis Panagi (Ph.D.)
  - Ph.D. and M.Sc. Degrees (committee member)
    - Brokalakis Andreas (Ph.D.)
    - Ioannou Angelos (Ph.D.)
    - Tambouratzis Nikolaos (Ph.D.)
    - Apostolakis Stavros (M.Sc.)
    - Elias Anagyros (M.Sc.)
    - Kartsonakis Ioannis (M.Sc.)
    - Kousanakis Emmanuel (M.Sc.)
- Maragoudakis Petros (M.Sc.)
- Miteloudi Konstantina (M.Sc.)
- Nikoloudakis Georgios (M.Sc.)
- Pattakos Nikolaos (M.Sc.)
- Perdikakis Apostolos (M.Sc.)
- Rossos Christos (M.Sc.)
- Rousopoulos Christos (M.Sc.)
- Smerdis Miltiades (M.Sc.)
- Strataki Eleni (M.Sc.)
- Veronikis Konstantinos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Andronikakis Andreas
    - Doitsinis Ioannis
    - Drakoulaki Eleni
    - Gioti Varvara
    - Iggilis Anastasia
    - Katsinelis Constantinos
    - Pentafragas Georgios
    - Pissadakis Emmanuel
    - Pouli Christina
    - Souris Anastasios
    - Tampakakis Ioannis
    - Taxiarchis Vaios
    - Varikos Antonios
  
  - Diploma theses completed (supervisor)
    - Kasabalis Vasilios
  
  - Diploma theses in progress (committee member)
    - Alexandris Constantinos
    - Andreopoulos Marios
    - Bozikas Dimitrios
    - Fotinopoulos Georgios
    - Gerolymatos Dionysios
    - Kouinis Constantinos
    - Koukousoulas Pantelis
    - Kritikakis Charalambos
    - Malavazos Constantinos
    - Mourtzanos Triantaphyllos
    - Mytakis Dimitrios
    - Panagidis Giannakis
    - Petronikolos Constantinos
    - Pogas Nektarios
    - Sotiropoulos Antonios
    - Symeou Andreas
    - Theodoroglaki Ioanna
Diploma theses completed (committee member)

- Boukoros Spyridon
- Filos Vasilios
- Gardelakos Argyrios – Alexandros
- Kalaitzis Constantinos
- Kousanakis Emmanuel
- Pialoglou Alexandros
- Veremi Christina
Name: George Stavrakakis  
Rank: Full Professor  
Years in rank: 20  
Full-time or part-time: Full-time  
Division: Electronics and Computer Architecture  
Lab affiliation: Electric Circuits & Renewable Energy Sources (www.elci.tuc.gr)

A – Teaching

- Undergraduate courses taught  
  - ENE 301: Introduction to Power Systems  
  - ENE 511: Renewable Energy Sources

- Graduate courses taught  
  - SYS 603: Advanced Topics in Optimal Control

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

- Curriculum & course development  
  - New courses / labs developed already: Introduction to Power Systems (ENE 301)  
  - Lecture notes / slides developed already: Renewable Energy Sources (ENE 511)

- Authored textbooks: None

B – Publications

- Books and edited book chapters with referees:
• Publications in refereed journals
  o Submitted: three
  o Accepted: two

Published: two
  ▪ Christina Diakaki, Natalia Panagiotidou, Anastasios Pouliezos, Georgios D. Kontes, George S. Stavrakakis, et al.
    “A decision support system for the development of voyage and maintenance plans for ships”
  ▪ Natalia Panagiotidou, George S. Stavrakakis, Christina Diakaki
    “Sustainable urban solid waste management planning with the use of an advanced interactive decision support system based on the PROMETHEE II method”

• Publications in refereed conferences
  o Submitted: NONE
  o Accepted: NONE
  o Published: NONE

• Publications in conferences on abstract review
  o Submitted: NONE

• Patents: one in the national level (see below)
  ▪ GR: Έξυπνη μέθοδος και ολοκληρωμένη ηλεκτρονική διαχείριση 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

• Paper awards: none
• Technical Achievement awards: none
• Professional service awards: none
• Elevation to senior membership grades in Professional Societies (e.g., IEEE, ACM, …): none
• Fellowships, Visiting Professorships: none
• Invited Plenary Lectures: none
• Other

D – Funded Projects

• Current projects:
  o “An integrated system for monitoring ship’s emissions and operating parameters with application to optimal management of the ship energy demands during
operation [E-GRENSHIP], (2011-2014)”, General Secretary Research Technology - ΓΓΔΤ 09ΣΥΝ-51-871, Project site: www.egreenship.com, Partner

- Project proposals submitted: One

E – Professional service

- Associate Editor duties: none
- Society Technical Committee duties: one
  - International Committee of Electrical Machines – ICEM
- Conference Technical Program Committee service: none
- Conference Organization (specify role): none
- Reviewing activities: In six international Journals
  - Permanent invited Reviewer of the Journal of Intelligent and Robotic Systems.
  - Permanent invited Reviewer of the IEEE Transactions on Energy Conversion.
  - Permanent invited Reviewer of the Electric Power Systems Research
  - Reviewer on call basis International Journal of Distributed Sensor Networks
  - Reviewer on call basis Renewable Energy journal
  - Reviewer on call basis IEEE Transactions on Automation Science and Engineering
- Participation in National Committees (e.g., ΓΓΔΤ): one
  - “Permanent Committee of the Prefecture of Crete for the Energy Planning of Crete
- Other

F – Service to the Department and the School

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

G – Advising

Undergraduate students supervised

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Yotis Thomas (Ph.D.)
    - Blazakis Constantinos (M.Sc.)
    - Syntzanaki Athena (M.Sc.)
    - Viskadouraki Evangelia (M.Sc.)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
Ph.D. and M.Sc. degrees awarded (committee member)
- Papoutsoglou Georgios (Ph.D.)
- Mandourarakis Ioannis (M.Sc.)

Ph.D. and M.Sc. Degrees (committee member)
- Tripolitakis Evangelos (Ph.D.)
- Vasilomichelaki Ariadni (Ph.D.)
- Bardis Stamatis (M.Sc.)
- Brellas Constantinos (M.Sc.)
- Chatzidakis Panagiotis (M.Sc.)
- Fytraki Evangelia (M.Sc.)
- Vamvoukakis Constantinos (M.Sc.)
- Xifaras Constantinos (M.Sc.)

Undergraduate students supervised
- Diploma theses in progress (supervisor):
  - Dinopoulou Vaia
  - Kalomiris Nikolaos
  - Kousanakis Vasilios
  - Stefanou Christos
  - Tsiamalos Christos
  - Tsokas Vasilios

- Diploma theses completed (supervisor):
  - Alnatsheh Bassam
  - Andrianopoulos Timoleon
  - Kalogeropoulos Marios
  - Kantartzis Theodoros
  - Milionis Georgios Alexandros
  - Neophytos Neophyto
  - Papapostolou Anastasios

Diploma theses in progress (committee member):
- Aronis Spyridon
- Dimitriadis Constantinos
- Drosopoulos Andreas
- Gentsis Charalampos
- Giannopoulos Asimakis
- Kosmopoulos Stefanos
- Papantonakis Theodosios
- Parlanis Dimitrios
- Petrakis Emmanuel
- Psychogios Marios
- Sfakianakis Konstantinos
- Sioutas Apostolos
- Spyridakis Georgios

Diploma theses completed (committee member):
- Alexopoulos Dimitrios
- Afentoulis Dimitrios
- Brellas Constantinos
- Chatziagapoglou Constantinos
- Dapaleras Georgios
- Lathiotakis Aris
- Nikolakakis Eleftherios
- Petridis Nikolaos
Telecommunications Division

Faculty Members

- Bletsas Aggelos, Associate Professor
- Digalakis Vassilios, Professor
- Karystinos George, Associate Professor
- Koutsakis Polychronis, Associate Professor
- Liavas Athanasios, Professor
- Paterakis Michail, Professor
- Zervakis Michail, Professor
For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Aggelos Bletsas
Rank: Associate Professor
Years in rank: 1,5
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Telecommunications Laboratory

A – Teaching

• Undergraduate courses taught
  o TEL 412: Analysis & Design (Synthesis) of Telecom Modules (elective), fall 2014 (13 lectures + 10 labs).
  o TEL 303: Telecommunication Systems II (mandatory), spring 2015 (25 lectures).

• Graduate courses taught
  o TEL 602: Detection & Estimation Theory, fall 2014 (25 lectures).

• Labs taught
  o TEL 412: Analysis & Design (Synthesis) of Telecom Modules, fall 2014.

B – Publications

• Publications in refereed journals

  o Published:


• Publications in refereed conferences
  
  ▪ Published:
    
    □ G.N. Karystinos and A. Bletsas, "Cubic-complexity Optimal Noncoherent OOK Sequence Detection in Flat Fading", *IEEE International Conference on Communications (ICC)*, June 2015, London, UK.
    
    
    
    
    
    
    
P. Alevizos, E. Vlachos and A. Bletsas, "Factor Graph-Based Distributed Frequency Allocation in Wireless Sensor Networks", *IEEE Global Communications Conference (GLOBECOM)*, December 2014, Texas-Austin, USA.

N. Fasarakis-Hilliard, P. Alevizos and A. Bletsas, "Narrowband Cooperative Network Localization", *IEEE Global Communications Conference (GLOBECOM)*, December 2014, Texas-Austin, USA.


- Patents

**C – Awards & Distinctions**

- Appointed Associate Editor in premier journal *IEEE Transactions on Wireless Communications*, June 2015.

- Received conference-wide student paper award and best student paper award in Communications and Networks track, at *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2015*, Brisbane, Australia, for the paper:
D – Funded Projects

- Current projects:
  - 1 Project funded through EU Cost “WIPE”.
  - 3 Projects funded through GSRT Thalis.
  - 1 Project funded through GSRT "Proposals Evaluated positively at 3rd ERC Call".
  - 1 Project funded through GSRT Synergasia.
  - 1 Project funded through Cyprus RPF.

- Project proposals submitted:
  - 1 proposal to EU

E – Professional service

- Associate Editor duties
  - Associate Editor for IEEE Wireless Communication Letters.
  - Associate Editor for IEEE Transactions on Wireless Communications.

- Conference Technical Program Committee service
  - IEEE ICC 2015 (Cognitive Radio & Networks Track)
  - IEEE ICC 2015 (Ad-hoc & Sensor Networks Track)
  - IEEE Globecom 2015 (Wireless Networks Track)
  - IEEE Globecom 2015 (Ad-hoc & Sensor Networks Track)
  - EURASIP RFID 2015

- Conference Organization (specify role)

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

F – Service to the Department and the School

- School – level responsibilities
  - Presentations of the Department to several classes of Elementary and High school students (with Prof. Lagoudakis).
G – Advising

Students supervised

- Active graduate students supervised
  - M.Sc. students supervised as principal advisor – COMPLETED Master of Science THeses:
    - Nikos Kargas, SDR Readers for Gen2 RFID and Backscatter Sensor Networks, **M.S. Thesis**, School of ECE, Technical Univ. of Crete, Aug. 2015.
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Alevizos Panagiotis (Ph.D.)
    - Agadakos Nikolaos (M.Sc.)
    - Daskalakis Spyridon Nektarios (M.Sc.)
    - Dilis Dimitrios (M.Sc.)
    - Oikonomakos Panagiotis (M.Sc.)
    - Sklivanitis Georgios (M.Sc.)
    - Tountas Constantinos (M.Sc.)
  - Ph.D. and M.Sc. degrees awarded (committee member)
    - Antonopoulos Angelos (Ph.D.)
    - Constantopoulos Christos (M.Sc.)
    - Dimitriou Constantina (M.Sc.)
    - Fountzoulas Ioannis (M.Sc.)
  - Ph.D. and M.Sc. degrees - committee member
    - Fountzoulas Ioannis (Ph.D.)
    - Chatzilaris Eleftherios (M.Sc.)
    - Igglezakis Antonios (M.Sc.)
    - Kasimatis Vasilios (M.Sc.)
    - Loizou Constantinos (M.Sc.)
    - Pavlakis Nikolaos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses supervised as principal advisor – COMPLETED Diploma THeses
    - Mihalis Bamiedakis, Synchronization and Detection for Gen2 RFID, **Diploma Thesis**, School of ECE, Technical Univ. of Crete, January 2015.
    - Spyridon-Nektarios Daskalakis, Energy Harvesting and Sensing for Backscatter Radio, **Diploma Thesis**, School of ECE, Technical Univ. of Crete, October 2014.
- Panagiotis Oikonomakos, Dynamic resource allocation in rooftop networking, Diploma Thesis, School of ECE, Technical Univ. of Crete, September 2014.

- Diploma theses in progress (committee member)
  - Charitakis Spyridon
  - Dimitriou Georgios
  - Fountoulakis Emmanuel
  - Georgiopoulos Theodoros
  - Papadopoulou Alexia
  - Theofilou Eleni

- Diploma theses in progress/completed (committee member)
  - Chatzi Nikolaou Panagiotis
  - Costa Angela
  - Heliades Stylianos
  - Leonidakis Stylianos
  - Lourakis Georgios
  - Magounaki Theoni
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Vassilis Digalakis
Rank: Full
Years in rank: 15
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Information & Networks Lab

A – Teaching

Rector – Exemption from teaching, due to University administrative duties

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:
- Project proposals submitted:
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 Department and the School

- Departmental responsibilities
  - Information and Networks Lab, Director
- School – level responsibilities
  - Rector of Technical University of Crete

G – Advising

Undergraduate students supervised

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Oikonomidis Dimitrios (Ph.D.)
    - Constantinidis Constantinos (M.Sc.)
    - Dougiakis Lazaros (M.Sc.)
    - Georgiadou Despina (M.Sc.)
    - Pechlivanis Constantinos (M.Sc.)
  - Ph.D. and M.Sc. degrees awarded (committee member)
    - Georgogiannis Alexandros (Ph.D.)
    - Klasinas Ioannis (Ph.D.)
    - Malandrakis Nikolaos (Ph.D.)
    - Athanasopoulou Georgia (M.Sc.)
    - Giakoumakis Theodoros Marios (M.Sc.)
    - Giannoudaki Maria (M.Sc.)
    - Loukeris Nikolaos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Sideris Panagiotis
- Diploma theses completed (supervisor)
  - Fytopoulos Nikolaos

- Diploma theses in progress (committee member)
  - Charitakis Spyridon
  - Fountoulakis Emmanuel

- Diploma theses completed (committee member)
  - Christodouleas Dimitrios
  - Giannakouras Panagiotis
  - Lourakis Georgios
Technical University of Crete  
School of Electronic & Computer Engineering  

Annual Activity Report  

For the period: Sep. 1, 2014 to Aug. 31, 2015  

Name: George Karystinos  
Rank: Associate Professor  
Years in rank: 3  
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  
  - TEL 416: Information Theory and Coding  

- Graduate courses taught  

- 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
  - Accepted:
  - 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

- Conference Technical Program Committee service
  - IEEE International Conference on Communications (ICC) - Wireless Communications Symposium (2015)
  - International Conference on Signal Processing & Data Mining (ICSPDM) (2015)

- Conference Organization (specify role)
  - 

- Reviewing activities
F – Service to the Department and the School

- Departmental responsibilities
  - Undergraduate Studies Committee, School of Electrical and Computer Engineering, Technical University of Crete, 2013 - present.

- School – level responsibilities

G – Advising

Undergraduate students supervised

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Fountzoulas Ioannis (M.Sc.)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Fountzoulas Ioannis (Ph.D.)
    - Koupatsiaris Dimitrios (Ph.D.)
  - Ph.D. and M.Sc. degrees awarded (committee member)
    - Alevizos Panagiotis (M.Sc.)
    - Alibertis Emmanuel (M.Sc.)
  - Ph.D. and M.Sc. Degrees (committee member)
    - Alevizos Panagiotis (Ph.D.)
    - Giotis Thomas (Ph.D.)
    - Sfakianakis Stylianos (Ph.D.)
    - Agadakos Nikolaos (M.Sc.)
    - Daskalakis Spyridon – Nektarios (M.Sc.)
    - Kostoulas Georgios (M.Sc.)
    - Oikonomakos Panagiotis (M.Sc.)
    - Tountas Konstantinos (M.Sc.)

- Undergraduate students supervised
  - Diploma theses in progress
    - Fountoulakis Emmanuel
    - Theofilou Eleni
  - Diploma theses completed (supervisor)
    - Kosta Angela
  - Diploma theses in progress (committee member)
    - Fragakis Panteleimon
    - Georgiopoulos Theodorus
    - Giolias Athanasios
    - Karamolegos Nikolaos
    - Papakonstantinou Triantaphyllos
    - Pezoulas Vasilios
- Diploma theses completed (committee member)
  - Bamiedakis Pananos Michail
  - Chatzi Nikolaou Panagiotis
  - Heliadis Stylianos
  - Leonidakis Stylianos
  - Magounaki Theoni
  - Oikonomakos Panagiotis
  - Tountas Constantinos
Name: Polychronis Koutsakis  
Rank: Associate Professor  
Years in rank: 1.5  
Full-time or part-time: Full – time  
Division: Telecommunications  
Lab affiliation: Information & Networks Laboratory

A – Teaching

- Undergraduate Courses Taught
  - Computer Networks I

B – Publications

- Publications in refereed journals
  - Submitted:

- Publications in refereed conferences
  - Published:
    - S. Boukoros, A. Kalampogia and P. Koutsakis, “A New Highly Accurate Workload Model for Campus Email Traffic”, accepted for presentation in the IEEE International Conference on Computing, Networking and Communications (ICNC) 2016, Kauai, Hawaii, USA (Acceptance Ratio: < 30%).

C – Awards & Distinctions
D – Funded Projects

- Current projects:
  - “SpeDial: Spoken Dialogue Analytics”, Funding Source: FP7-ICT (ICT-SME-DCA STREP Call 2013), Project Budget: € 1,500,000, TUC Budget: € 110,000, Duration: Dec. 1, 2013 - Nov. 30, 2015, Role: Deputy Co-ordinator of the project and Technical Leader of the Technical University of Crete group. Project funded under the, Budget: 1.5 million €.

E – Professional service

- Associate Editor duties
  - IEEE Communication Surveys&Tutorials Journal
  - Computer Communications Journal (Elsevier)

- Society Technical Committee duties

- Conference Technical Program Committee service
  - IEEE GLOBECOM 2015 Symposium on Wireless Networks
  - IEEE Vehicular Technology Conference (VTC) - fall 2015
  - IEEE INFOCOM Workshop on Mobile Cloud Computing and Virtualization 2015
  - IEEE INFOCOM Workshop on Communication and Networking Techniques for Mobile Video 2015
  - IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM) 2015
  - IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob) 2015
  - IEEE WCNC 2015 Mobile and Wireless Networks Track
  - IEEE International Conference on Wireless Communications and Mobile Computing (IWCMC) 2015

- Conference Organization (specify role)
  - Co-Chair for the 4th International IEEE Workshop on Video Everywhere (VidEv 2015), part of the 16th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), June 2015, Boston, USA.

- Reviewing activities
  - IEEE Transactions on Multimedia
  - IEEE Transactions on Vehicular Technology
  - IEEE Transactions on Cloud Computing
  - Journal of Internet Technology

G – Advising

Undergraduate students supervised

- Active graduate students supervised
Ph.D. and M.Sc. students supervised (advisor, completed)
  - Dimitriou Konstantina (M.Sc.)

Ph.D. and M.Sc. students supervised (advisor, in progress)
  - Klasinas Ioannis (Ph.D.)
  - Chorianopoulou Arodami (M.Sc.)
  - Kalambogia Athena (M.Sc.)
  - Loizidis Orestis – Stavros (M.Sc.)
  - Palogiannidi Elisavet (M.Sc.)

Undergraduate students supervised

Diploma theses in progress
  - Gerolymatos Dionysios
  - Kastrinakis Marios
  - Theodosiou Nikolas
  - Tsakalakis Georgios

Diploma theses completed (supervisor)
  - Boukoros Spyridon
  - Kalampogia Athena
  - Paliatsa Dimitra
  - Tzamicha Greta Emmanuela

Diploma theses in progress (committee member)
  - Alexiou Aristides
  - Bouzoukas Dimitris
  - Didymiotis – Ventouris Georgios
  - Psaromanolakis Nikolaos
  - Tampakakis Ioannis
  - Tzimas Dimitrios
  - Vlachantonis Georgios

Diploma theses completed (committee member)
  - Kostoulas Georgios
Name: Athanasios P. Liavas
Rank: Professor
Years in rank: 6
Full-time or part-time: Full-time
Division: Telecommunications Division
Lab affiliation: Telecommunications Lab, Director

A – Teaching

- Undergraduate courses taught
  - TEL 301: Telecommunications Systems I (mandatory)
  - TEL 417: Wireless Communication Systems
  - COMP 421: Randomized Algorithms (Offered jointly with COMP 617)

- Graduate courses taught
  - COMP 617: Randomized Algorithms
  - TEL 615: Special Topics in Convex Optimization

- Labs taught

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

B – Publications

- Publications in refereed journals
  - Submitted
Accepted:

- **A.P. Liavas** and N.D. Sidiropoulos, “Parallel Algorithms for Constrained Tensor Factorization via the Alternating Direction Method of Multipliers”, *IEEE Trans. on Signal Processing, accepted July 2015*

Published:

- Publications in refereed conferences
  - Accepted:
  - 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
- Conference Technical Program Committee service
- Conference Organization (specify role)
• Reviewing activities

F – Service to the Department and the School

• Departmental responsibilities

• School – level responsibilities
  o Member of the Board, Telecommunication Systems Research Institute (T.S.I.), Technical University of Crete

G – Advising

Undergraduate students supervised

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised (advisor, completed)
  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Georgogiannis Alexandros (Ph.D.)
    ▪ Kostoulas Georgios (M.Sc.)
  o Ph.D. and M.Sc. degrees awarded (committee member)
  o Ph.D. and M.Sc. Degrees (committee member)
    ▪ Fountzoulas Ioannis (Ph.D.)
    ▪ Koupatsiaris Dimitrios (Ph.D.)
    ▪ Moutzianou Georgios (Ph.D.)
    ▪ Athanasopoulou Georgia (M.Sc.)
    ▪ Dougias Lazaros (M.Sc.)
    ▪ Orphanoudakis Emmanuel (M.Sc.)
    ▪ Pechlivanis Constantinos (M.Sc.)
    ▪ Sklivanitis Georgios (M.Sc.)

• Undergraduate students supervised
  o Diploma theses in progress
    ▪ Charitakis Spyridon
    ▪ Georgiopoulos Theodoros
    ▪ Giolias Athanasios
    ▪ Karamolegos Nikolaos
    ▪ Papakonstantinou Triantaphyllos
  o Diploma theses completed (supervisor)
    ▪ Chatzi Nikolaou Panagiotis
    ▪ Christodoulas Dimitrios
    ▪ Iliadis Stylianos
- Kostoulas Georgios
- Leonidakis Stylianos
- Lourakis Georgios
- Magounaki Theoni

- Diploma theses in progress (committee member)
  - Alexiou Aristides
  - Bitzanakis Joseph
  - Bouzoukas Dimitris
  - Charitakis Spyridon
  - Chondroulis Ioannis
  - Psaromanolakis Nikolaos
  - Vlachantonis Georgios

- Diploma theses completed (committee member)
  - Alevizaki Androniki
  - Kosta Angela
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Michael Paterakis
Rank: Professor
Years in rank: 16
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Information and Computer Networks Laboratory

A – Teaching

- Undergraduate courses taught
  - TEL 202: Probability and Random Signals, Mandatory Core Undergraduate Course
  - TEL 512: Introduction to Modeling and Performance Evaluation of Computer Communication Networks, Advanced Senior Undergraduate Course

- Graduate courses taught
  - TEL 611: Introduction to Modeling and Performance Evaluation of Computer Communication Networks, Graduate Course (Offered jointly with TEL 512)

- Curriculum & course development
  - Lecture notes / slides developed
    - Developed a complete set of notes in Greek for the graduate course TEL 601 “Probability and Random Processes”

B – Publications

- Publications in refereed conferences
  - Submitted:

D – Funded Projects

- Current projects:
  - “Social Network Aware Cognitive Radio Networks – SoCoNet”, funded by the GSRT Thales Program. This project is a collaborative effort of research teams from AUTH (ECE Dept.), TUC (ECE School) and UTH (CET Dept.). Prof. M. Paterakis participates in the research team. Coordinator: Prof. Leonidas

- “Services of Independent Auditor for the National Project: Development of Broadband Infrastructure on Rural White Areas of Greek Territory and Operations Services”, Public Private Partnership Project. Funded for the period 1/1/2015 – 31/12/2031 by the special purpose entities “OTE Rural North” and “OTE Rural South” of the Hellenic Telecommunications Organization (OTE S.A.). Budget: € 1.781.704.

**E – Professional service**

- June 2013 – June 2016. Member of the Executive Board, Greek Universities Network (GUnet), a no-profit company founded by all the Greek Academic Institutions.

- Conference Organization (specify role)
  - Co-Chair for the 4th International IEEE Workshop on Video Everywhere (VidEv 2015), part of the 16th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), June 2015, Boston, MA, U.S.A.

- Reviewer for 4th International IEEE Workshop on Video Everywhere (VidEv 2015), part of the 16th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), June 2015, Boston, MA, U.S.A.

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

- School – level responsibilities
  - June 2013 – , Director, Telecommunication Systems Research Institute (T.S.I.), Technical University of Crete

**G – Advising**

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Theodorou Maria (M.Sc.), Thesis Title: “Design and Performance Evaluation of Sensing Algorithms for Multiple Cognitive Radio Networks: the cases of No Cooperation and Limited Cooperation among the Secondary Users in case of Identical or Heterogeneous Channels”.

- Ph.D. and M.Sc. Degrees awarded (committee member)
  - Dimitriou Konstantina (M.Sc.)

- Ph.D. and M.Sc. Degrees (committee member)
  - Kalabogia Athena (M.Sc.)
  - Loizidis Orestis Stavros (M.Sc.)
  - Pechlivanis Constantinos (M.Sc.)

- Undergraduate students supervised
  - Diploma Theses completed (supervisor):
- Kyriazis Athanasios, Thesis Title: “Cache Management Policies for Streaming Proxies: the cases of fixed and variable video sizes and collaboration among proxies”.

- Diploma theses in progress (supervisor):
  - Alexiou Aristides
  - Bouzoukas Dimitris
  - Psaromanolakis Nikolaos
  - Vlachantonis Georgios

- Diploma Theses completed (committee member):
  - Boukoros Spyridon
  - Chatzimeletiou Vlasios
  - Kalampogia Athena
  - Kostoulas Georgios
  - Paliatsa Dimitra
  - Tzamicha Greta Emmanuela

- Diploma Theses in progress (committee member):
  - Gerolymatos Dionysios
  - Giolias Athanasios
  - Karamolegos Nikolaos
  - Kastrinakis Marios
  - Michailidis Stavros
  - Papaonstantinou Triantaphillos
  - Theodosiou Nikolas
  - Tsakalakis Georgios
Technical University of Crete  
School of Electronic & Computer Engineering  
Annual Activity Report  

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Michalis Zervakis  
Rank: Professor  
Years in rank: 15  
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  
  o TEL 302: Digital Signal Processing (mandatory)  
  o TEL 312: Digital Image Processing  
  o ACE 513: Biomedical Technology  

- Graduate courses taught  
  o TEL 610: Special Topics in Digital Image Processing  

- Labs taught  
  o Digital Signal Processing – Lab supervision  

- Curriculum & course development  
  o New courses / labs developed  
  o Lecture notes / slides developed  
    ▪ Biomedical Technology – Development of notes on Electro-Cardiology (ECG) Signal Analysis  
  o Authored textbooks  

B – Publications  

- Articles in Journals  
  ▪ Kallergi, G., V. Tsintari, S. Sfakianakis, M. Zervakis, D. Mavroud, and V. Georgoulas. “CXCR4 Pathways in CTCs: From Bioinformatics to


- **Articles in Book Chapters**

- **Articles in Conference Proceedings**


C – Awards & Distinctions

D – Funded Projects

- Current projects:

- Project proposals submitted:
  - Targeting: Marie Curie ITN proposal with CERN
  - mHealthEco: proposal submitted today under the H2020-MSCA-ITN-ETN-2014 call
  - MyHealthCare: submitted under H2020-PHC-2015-single-stage
  - Empower: submitted under H2020-PHC-2015-single-stage
  - CYBIC: submitted under H2020-WIDESPREAD-2014-1

E – Professional service

- Conference Technical Program Committee service
  - IEEE IST 2014: Program Co-Chair
• Reviewing activities
  

F – Service to the Department and the School

• Departmental responsibilities
  
  o Member and Vice-chair of ECE School
  o Digital Image and Signal Processing Laboratory, Director
  o Automation Laboratory, Director

• School – level responsibilities
  
  o Member and Vice-chair ELKE

G – Advising

Undergraduate students supervised

• Active graduate students supervised

  o Ph.D. and M.Sc. students supervised (advisor, completed)
    ▪ Chlis Nikolaos Cosmas (M.Sc.)
    ▪ Lyronis Antonios (M.Sc.)
    ▪ Feigler Igor (M.Sc. at Masaryk University, Brno, Czech Republic)

  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Liaba Irini (Ph.D.)
    ▪ Livanos Georgios (Ph.D.)
    ▪ Mirogiorgou Constantia (Ph.D.)
    ▪ Sfakianakis Stylianos (Ph.D.)
    ▪ Bacharidis Constantinos (M.Sc.)
    ▪ Jaohar Osman (M.Sc.)
    ▪ Karalas Constantinos (M.Sc.)
    ▪ Pentari Anastasia (M.Sc.)
    ▪ Vourlaki Ioanna – Theoni (M.Sc.)

  o Ph.D. and M.Sc. degrees awarded (committee member)
    ▪ Papoutsoglou Georgios (Ph.D.)
    ▪ Rematska Georgia (M.Sc.)

  o Ph.D. and M.Sc. Degrees (committee member)
    ▪ Chliaoutakis Angelos (Ph.D.)
    ▪ Kalantzaki Calliope (Ph.D.)
    ▪ Koulieris Georgios – Alexandros (Ph.D.)
    ▪ Tsapras Athanasios (Ph.D.)
    ▪ Blazakis Constantinos (M.Sc.)
    ▪ Christeas Dimitrios (M.Sc.)
- Epitropou Georgios (M.Sc.)
- Kalokyri Varvara (M.Sc.)
- Rossos Christos (M.Sc.)
- Roussopoulos Christos (M.Sc.)
- Thermolia Chryso (M.Sc.)

- Undergraduate students supervised

  o Diploma theses in progress
    - Barberakis Stylianos
    - Gompaki Efstathia
    - Kirakosian Salva
    - Leska Valsamo
    - Pezoulas Vasilios
    - Tsakaneli Stavroula

  o Diploma theses completed (supervisor)
    - Alevizaki Androniki
    - Halepakis Dellis Dimitrios – Apostolos
    - Kotronia Maria
    - Kouloumentas Panagiotis

  o Diploma theses in progress (committee member)
    - Andronikakis Andreas
    - Boras Charalampos
    - Demertzis Eleftherios
    - Doitsinis Ioannis
    - Gotsoulias Dimitrios
    - Katsinelis Constantinos
    - Kontos Nikolaos
    - Malandrakis Miller Georgios
    - Marinaki Eftichia
    - Mourtzanos Triantafyllos
    - Papadopoulou Sofia
    - Pentafragas Georgios
    - Savva Androula
    - Spyrou Angeliki
    - Varsamidis Harissis
    - Vogiatzis Constantinos
    - Zafiriou Odysseas

  o Diploma theses completed (committee member)
    - Chatzimeletiou Vlasis
    - Farantsos Georgios
    - Gardelakos Argyrios – Alexandros
    - Kalambogia Athena
    - Karatzafieris Efstathios – Alexandros
    - Klotsonis Alcibiades
    - Liverios Marinos – Ioannis
    - Nikolaou Spyridon
    - Trigkakis Dimitrios
    - Tsigdinos Stylianos
Faculty in the Sciences

Faculty Members

- Angelakis Dimitris, Assistant Professor
- Ellinas Demosthenes, Professor
- Manoussaki Daphne, Assistant Professor
- Pantinakis Apostolos, Assistant Professor
- Petrakis Minos, Associate Professor
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Dimitris Angelakis
Rank: Assistant Professor
Years in rank: 3
Full-time or part-time: Full-time
Division:
Lab affiliation:

A – Teaching

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

- Graduate courses taught
  - Quantum Technology (FYS 602) (crosslisted)

- Curriculum & course development
  - New courses / labs developed
    - Laboratory experiments for Electromagnetism, School of ECE
  - Lecture notes / slides developed
    - Slides for the theory part Physics-Electromagnetism (FYS 102)
  - Authored textbooks

B – Publications

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

- Patents
  - GRANTED

C – Awards & Distinctions

- Appointed in the Management Committee, the Core group and elected WG4 deputy leader for the EU COST Action "Nanoscale Quantum Optics", 2014-2018
- Our experimental work “Optical simulation of charge conservation violation and Majorana dynamics” published in Optica 2,4 54 (2015) was covered as:
  1. a focus article in Optics & Photonics News (OPN) entitled “Using light to simulate unphysical particles” May 2015
  2. news in the Science Section, International Business Times, as well as phys.org and sciencedaily, April 2015

D – Funded Projects

- Current projects:
- Project proposals submitted:

E – Professional service

- Associate Editor duties
  - Editorial board of European Physical Journal: Quantum Technology

- Society Technical Committee duties

- Conference Technical Program Committee service

- Conference Organization (specify role)
  - Main organizer and chair of the program committee for the symposium on “Many body quantum optics: Merging condensed matter with AMO physics” within the 9th International Conference on Computational Physics (ICCP9), Singapore January 7-11, 2015.
• Reviewing activities
  
  o 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
  

• Invited talks in international meetings
  
  o “Driven dissipative many body physics with light” Control of Quantum Dynamics of Atoms, Molecules and Ensembles by Light Workshop 2014, Bourgas, Bulgaria, June 2015
  
  o “Strongly interacting photons” International Winter School and Workshop on Strongly correlated fluids of light and matter, European Centre for Theoretical Studies in Nuclear Physics and related areas (ECT), Trento, Italy January 12th-23rd 2015
  
  o “Quantum simulations of exotic physics with photonic chips” The Benasque Workshop on Quantum Simulators, Benasque, Spain, February 22nd-27th 2015
  
  o “Quantum simulations of condensed matter and exotic phenomena with strongly correlated photons and polaritons” Advanced Workshop on Landau-Zener Interferometry and Quantum Control in Condensed Matter, ICTP workshop, Smyrna, Turkey, October 2014

F – Service to the Department and the School

• Departmental responsibilities
  Member of the departmental staff committee

• School – level responsibilities
  Member of the school of ECE staff committee

G – Advising

• Active graduate students supervised
  
  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Shetakis Nikolaos (PhD)
    ▪ Kalogerakis Michalis (PhD)
  
  o Ph.D. and M.Sc. Degrees (committee member)
    ▪ Konstantakis Christos (PhD)
    ▪ Moutzianou Georgios (PhD)
Technical University of Crete
School of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Demosthenes Ellinas
Rank: Professor
Years in rank: 6
Full-time or part-time: Full-time
Division:
Lab affiliation:

A – Teaching

- Undergraduate courses taught
  - MATH 201: Linear Algebra (mandatory)
  - MATH 208: Discrete Mathematics
  - MATH 302: Applied Mathematics
  - MATH 412: Introduction to Quantum Information Science

- Graduate courses taught
  - MATH 601: Introduction to Quantum Information Science

- 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
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

F – Service to the Department and the School

- Departmental responsibilities
- School – level responsibilities

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Dimitriadis Alexandros
    - Konstantakis Christos
    - Moutzianou Georgios
  - Ph.D. and M.Sc. degrees awarded (committee member)
  - Ph.D. and M.Sc. Degrees (committee member)
    - Shetakis Nikolaos
- Undergraduate students supervised
  - Diploma theses in progress
  - Diploma theses completed (supervisor)
  - 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, 2014 to Aug. 31, 2015

Name: Daphne Manoussaki  
Rank: Assistant Professor  
Years in rank: 9  
Full-time or part-time: Full  
Division:  
Lab affiliation:  

A – Teaching

- Undergraduate courses taught
  - MATH 101 : Mathematics I (mandatory)

B – Publications

- Publications in refereed journals
  - Cytosolic pressure provides a propulsive force comparable to actin
    polymerization during lamellipod protrusion, Scientific Reports 5, Article Number 12314, 2015
    Link: http://www.nature.com/articles/srep12314

C – Awards & Distinctions

D – Funded Projects

E – Professional service

- Society Technical Committee duties
  - Member of the National Council for Higher Education

F – Service to the Department and the School

- Departmental responsibilities
  - Member of the Undergraduate Curriculum Committee
G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Nikos Papadakis (Ph.D. Student, member of the advisory committee)
    - Triantafyllia Kili (M.Sc. Student, advisor)
    - Anthi Kokkinaki (M.Sc. Student, advisor).
Technical University of Crete  
School of Electronic & Computer Engineering  
Annual Activity Report  

For the period: Sep. 1, 2014 to Aug. 31, 2015

Name: Apostolos Pantinakis  
Rank: Assistant Professor  
Years in rank: 21  
Full-time or part-time: Full-time  
Division:  
Lab affiliation: Research Laboratory of Experimental Physics

A – Teaching

- Undergraduate courses taught  
  o PHYS 101: Physics (Mechanics – Heat)  
  o PHYS 102: Physics (Electromagnetism)

- Graduate courses taught  
  o PHYS 601: Techniques for detecting electromagnetic fields and radiation

- Curriculum & course development  
  o New courses / labs developed  
    ▪ Open course: Physics (Mechanics – Heat)  
    ▪ Open course: Physics (Electromagnetism)  
  o Lecture notes / slides developed

  o Authored textbooks  
  ● Physics Elements for scientists and engineers II Electromagnetism, 3rd ed.

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

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

F – Service to the Department and the School

- Departmental responsibilities
  - Postgraduate committee member

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Batsaki Elessa, Ph.D. student
    - Pantzekos Panagiotis, Ph.D. student
    - Violakis Efstratios, Ph.D. student
  - Ph.D. and M.Sc. Degrees (committee member)
    - Doukakis Markos Ph.D. student (MRED)

- Undergraduate students supervised
  - Diploma theses completed (committee member)
    - Tzivelopoulos Ioannis
Technical University of Crete  
School of Electronic & Computer Engineering  
Annual Activity Report  

For the period: Sep. 1, 2014 to Aug. 31, 2015

**Name:** Minos Petrakis  
**Rank:** Associate Professor  
**Years in rank:** 1.5  
**Full-time or part-time:** Full-time  
**Division:**  
**Lab affiliation:**

### A – Teaching

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

- Graduate courses taught

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

### B – Publications

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

- Publications in refereed conferences  
  - Published:

- Patents
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

F – Service to the Department and the School

- Departmental responsibilities
- School – level responsibilities

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, completed)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
  - Ph.D. and M.Sc. degrees awarded (committee member)
  - Ph.D. and M.Sc. Degrees (committee member)
- Undergraduate students supervised
  - Diploma theses in progress
  - Diploma theses completed (supervisor)
  - Diploma theses in progress (committee member)
  - Diploma theses completed (committee member)