Annual Activity Report

From Sep. 1, 2010 to Aug. 31, 2011
Chania, Crete
2012
Cover of *ACM Transactions on Applied Perception*, vol. 8, no. 1, 2011, based on work by ECE Dept. Assist. Prof. K. Mania and her colleagues on “Quantifying Fidelity for Virtual Environment Simulations Employing Memory Schema Assumptions”.
Message from the Chair

Dear Colleague,

The Department of Electronic and Computer Engineering (ECE) at the Technical University of Crete (TUC) was founded in the late ‘80’s, and admitted its first class of (30) undergraduate students in 1990. Since then, the Department has grown considerably, by all counts. As of this writing, the incoming class of freshmen has grown to 125, and the number of faculty to 25 (with several more to join us soon).

The Department is organized in four Divisions: Computer Engineering, Telecommunications, Electronics & Computer Architecture, and Control Systems. There is a successful research-oriented graduate studies program in place since the early 90’s, which has grown considerably over the years. The Department is proud of the accomplishments of its graduates. Many of our former students have pursued graduate studies here and abroad. Their ranks include faculty members at top-rated North-American Universities (Georgia Tech, McMaster University), researchers at University, Government, and Industry Research Labs (e.g., Rice-U.S., NICTA-Australia, Telcordia-U.S., Ericsson - Sweden), and successful professional engineers across Greece, Europe and the rest of the world.

Over half of the faculty members have obtained their Doctoral degrees in top-rated foreign Universities, and several worked for many years as faculty members abroad prior to joining us. The current levels of peer-reviewed scientific publication activity and competitive research funding are testament to the talent, visibility, and productivity of the faculty. Faculty credits further include multiple best paper awards at the IEEE Society level, professional recognition in terms of Distinguished Lecturer, Associate Editor and Technical Committee member appointments, and leadership in conference organization. This past year, in particular, another important recognition came from the extremely positive External Evaluation of the Department from a committee of internationally-renowned experts (briefly summarized on pg. 6).

While the Department’s performance is good in a number of important academic metrics, there is much room for improvement. A very useful tool towards this end is the Annual Activity Report (AAR), a process instituted in our department in 2005. This is the Department’s seventh AAR, covering the period from Sep. 1, 2010 to Aug. 31, 2011. It is our hope that the AARs document the results of our research efforts, and help improve the quality of our Department. Your feedback is most welcome.

Minos N. Garofalakis
minos@softnet.tuc.gr
Sep. 2010 – August 2011 Awards and Honors

(Kindly see http://www.ece.tuc.gr/ for full list and recent updates)

**Paper Distinctions**

**Honorary Awards**
Nikos Sidiropoulos, awarded *IEEE Signal Processing Society Meritorious Service Award (2010)*, “for dedicated service and leadership in the field of signal processing for communications and networking” (presented at the IEEE ICASSP Conference, Prague, May 2011).

**Keynote Addresses**
Michalis Lagoudakis, Invited Speaker, *“RoboCup: A Challenge Problem for Artificial Intelligence”*, Centro Politecnico Superior, University of Zaragoza, Spain, November 2010.

Michalis Lagoudakis, Invited Speaker, *“RoboCup: A Challenge Problem for Artificial Intelligence”*, Department of Computer Science, University of Ioannina, Greece, March 2011.

Yiannis Papaefstathiou, Invited Speaker, Second International Workshop on Sensing Technologies in Agriculture, Forestry and Environment (ECOSENSE), April 2011, Belgrade, Serbia.

**Other Distinctions**


Aggelos Bletsas invited and accepted position as Associate Editor in the Editorial Board of newly founded IEEE Wireless Communication Letters (WCL) journal, Aug. 2011.

Stratos Idreos (TUC ECE graduate) won the *2011 ACM SIGMOD Jim Gray Doctoral Dissertation Award*. 
A. Key Statistics for 2010-2011  
(in parenthesis 2009-2010)

- Publications (journals+confs+patents+book chaps, published): 121 (~117)
- Journals published: 36 (48)
- Conference papers published: 75 (69)
- Patents granted: 5 (7)
- % Faculty with research support: > 85 (> 80)
- # MSc degrees awarded this year: 13 (22)
- # PhD degrees awarded this year: 5 (2)

Comparison with previous AARs:

- Publication rate, 4.7 pub/faculty/year, slightly smaller than departmental 4-year average (~5 pub/faculty/year), 25% decrease in journals, 9% increase in conference publications.
- #MSc degrees awarded slightly decreased, #PhD degrees doubled, compared to departmental 4-year average.

Mid-term Goals:

- More emphasis on first-rate peer-reviewed publications.
- Increase efforts to attract competitive (European, National) funding.
- Insist on a relatively small number of high-quality MS/PhDs students. It seems realistic to maintain target of 3-5 PhDs/year.
- Priority on high-quality faculty mentoring, promotion, retention.
B. External ECE Department Evaluation

The Committee responsible for the External Evaluation of the Department of Electronic and Computer Engineering (ECE) of the Technical University of Crete (TUC) consisted of the following five (5) expert evaluators, drawn from the Registry constituted by the Hellenic Quality Assurance Agency for Higher Education (HQAA) in accordance with Law 3374/2005:

1. Professor Petros Ioannou (Chair)
   University of Southern California, USA

2. Professor Nikos Karcanias
   City University London, UK

3. Professor Christos Christopoulos
   Nottingham University, UK

4. Professor George Yadigaroglou
   ETHZ, CH

5. Professor Anthony Ephremides
   University of Maryland, USA

The External Evaluation Committee (EEC) visited the department between May 30 and June 1 2011. The outcome of the evaluation was enthusiastically positive with certain suggestions for improvement. An excerpt of the EEC report is given below:

<table>
<thead>
<tr>
<th>F. Final Conclusions and recommendations of the EEC</th>
</tr>
</thead>
</table>

The Department is staffed by highly enthusiastic, mostly young, top quality, internationally known faculty who came from renowned Universities. The EEC was impressed by the high standards of the Department in its current core areas and the quality of teaching and research. The comments that follow aim at helping the further development of the Department.

The full EEC report is posted at the departmental web site and can be also found here:
C. First ECE Department Open House, June 2011

The first Open House of the ECE Department was held on June 2011, aiming to better acquaint the Department to the local community. The Open House consisted of talks, lab tours and lab demonstrations. The whole Department was warmly engaged and the event was a great success with many visitors (mainly high-school students and families).
Computer Science Division

Faculty members

- Garofalakis Minos, Professor
- Chalkiadakis Georgios, Assistant Professor
- Deligiannakis Antonios, Assistant Professor
- Lagoudakis Michail, Assistant Professor
- Mania Ekaterini, Assistant Professor
- Petrakis Euripides, Associate Professor
- Samoladas Vassilios, Assistant Professor
- Christodoulakis Stavros, Professor
Technical University of Crete
Department of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Minos Garofalakis
Rank: Professor
Years in rank: 3 years (since January 2, 2009)
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
  - PLI-401: Algorithms and Complexity
  - PLI-406: Advanced Topics in Database Systems

- Graduate courses taught
  - PLI-627: Approximate Methods for Massive Databases and Data Streams

- Curriculum & course development
  - Lecture notes / slides developed
    - Updates to slides for curriculum courses: PLI-401, PLI-406, PLI-627

B – Publications

- Publications in refereed journals
  - Submitted: those published/appeared (see below)
  - Accepted:
    - Graham Cormode, Minos Garofalakis, Peter J. Haas, Christopher M. Jermaine. “Synopses for Massive Data: Samples, Histograms,

- Published:
  - Publications in refereed conferences
    - Published:

- Patents
  - Published
    - GRANTED

D – Funded Projects

- Current projects:
  - Fellow & Scientist in Charge for “HeisenData: Towards a Next-Generation Uncertain-Data Management System”, FP7 Marie-Curie International Re-integration Grant (Fellow’s budget 100.000€) 2010-2014.
  - TUC Principal Investigator for “LIFT – Using Local Inference in Large-Scale Distributed Systems”, FP7 FET-Open Collaborative STREP Project (Total budget 2.5M€, TUC budget 482.500€), 2010-2013.
• Project proposals submitted:
  o 1 FP7-ICT-STREP proposal submitted

E – Professional service

• Associate Editor duties
  o ACM Transactions on Database Systems (TODS): Associate Editor (2008 -- 2011)
  o IEEE Transactions on Knowledge and Data Engineering (TKDE): Associate Editor (2007 -- 2011)
  o Foundations and Trends in Databases: Editorial Board Member (2006 -- present)
  o Statistical Analysis and Data Mining (SAM): Editorial Board Member (2010 -- present)
  o Knowledge and Information Systems (KAIS): Editorial Board Member (2010 -- present)

• Conference Technical Program Committee service

F – Service to the Department and the School

• Departmental responsibilities
  o ECE Department Chair (August 2011 – present)

• School-level responsibilities
  o Member of the Management Board of the Company for the Exploitation of the Estate and the Technological Park of the Technical University of Crete (www.eadip.tuc.gr, May 2009 – present)

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised
    ▪ Kostas Athanasoglou (MSc student, TUC)
    ▪ Vagelis Vazaios (MSc student, TUC)

  o PhD. And M.Sc. degrees awarded
    ▪ Daisy Zhe Wang (Ph.D., Univ. of California, Berkeley, 2011; Co-advised with Michael J. Franklin and Joseph M. Hellerstein)
Thesis: "Extracting and Querying Probabilistic Information in BAYESTORE" Current position: Assistant Professor, Computer and Information Science and Engineering, University of Florida.

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - 7 theses in progress (G. Fragiadoulakis, V. Prokopi, I. Perros, L. Soulas, K. Aretakis, G. Komninos, S. Papagrigoriou)
  - Diploma theses completed (supervisor)

**ACM SIGMOD'2011 Undergraduate Poster Award**
Technical University of Crete
Department of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Georgios Chalkiadakis
Rank: Assistant Professor (awaiting official appointment)
Years in rank: since March 2011
Division: Computer Science
Lab affiliation: Intelligent Systems

A – Teaching

• Undergraduate courses taught
  o COMP-517 Multiagent Systems [Spring 2011]
  o COMP-417 Artificial Intelligence [Spring 2011]

• Curriculum & course development
  o New courses / labs developed
    1. COMP-517 Multiagent Systems [Spring 2011]
  o Lecture notes / slides developed
    1. For the courses I taught

B – Publications

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

E – Professional service

• Conference Technical Program Committee service
  o Program Committee member: the 10th International Conference on Autonomous Agents and Multiagent Systems, Taipei, Taiwan, May 2011 (AAMAS2011)
  o Program Committee member: the 25th AAAI Conference on Artificial Intelligence, San Francisco, California, 2011 (AAAI-11)
  o Program Committee member: the 3rd International Conference on Agents and Artificial Intelligence, Rome, Italy, January 2011 (ICAART-2011)
  o International workshops: CoopMAS2011, MSDM2011

• Conference Organization (specify role)
  o Tutorial Speaker: AAMAS-2011 (Taipei,Taiwan) May 2011
  o Tutorial Speaker: IJCAI-2011 (Barcelona, Catalonia, Spain) July 2011

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

G – Advising

• Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    ▪ Began (unofficially) supervising the student Thanos Panagopoulos (starting date: July 2011)
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Antonios Deligiannakis
Rank: Assistant Professor
Years in rank: 3 ½
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: Structured Programming
  - Comp 506: Data Processing and Handling in Sensor Networks

- Graduate courses taught
  - Comp 626: Data Processing and Handling in Sensor Networks
  - Comp 622: Special Issues in Database Systems

B – Publications

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

  o Published:

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

D – Funded Projects

- Project proposals submitted:
  - 3 Thales proposals. 2 were Funded.

E – Professional service

- Conference Technical Program Committee service
  - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2011)
  - International Conference on Mobile Data Management (MDM 2011)
  - 13th International Conference on Data Warehousing and Knowledge Discovery (DaWaK 2011)
  - ACM Workshop on Data Engineering for Wireless and Mobile Access (MobiDE 2011)
  - International Conference on Geosensor Networks (GSN 2011)
  - International Conference on Advanced Geographic Information Systems, Applications, and Services (GEOProcessing 2011)
  - Hellenic Data Management Symposium (HDMS 2011)

- Reviewing activities
  - VLDB Journal
  - Journal of Computer and System Sciences (JCSS)

F – Service to the Department and the School

- Departmental responsibilities
  - Consultant in undergraduate studies (2\textsuperscript{nd} semester courses, Spring 2010)

- School-level responsibilities
  - Department’s representative to the senate since September 2011.

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - Stelios Mammas
    - Yannis Flouris
    - Konstantinos Tsakonas
• Stergios Charalambopoulos

• Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    ▪ Smalis Sklavos
    ▪ Yannis Papadakis
    ▪ Yannis Xarxaros
    ▪ Antonios Igglezakis
    ▪ Evina Zografou
  o Diploma theses completed (supervisor)
    ▪ Sofia Georgiakaki
    ▪ Dionisios Kalogiropoulos
    ▪ Makis Mpousgos
    ▪ Eytyxios Babourakis
    ▪ Aleka Seliniotaki
    ▪ Manos Vogiatzis
    ▪ Sabbas Bourdakis
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Michail G. Lagoudakis
Rank: Assistant Professor
Years in rank: 6
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Intelligent Systems Laboratory

A – Teaching

- Undergraduate courses taught
  - COMP 513 – Autonomous Agents (Fall 2010)
  - COMP 402 – Theory of Computation (Spring 2011)
- Graduate courses taught
  - COMP 625 – Autonomous Agents (Fall 2010)
  - COMP 613 – Machine Learning (Spring 2011) – co-taught with V. Digalakis
- Labs taught
  - COMP 513 – Autonomous Agents Laboratory (Fall 2010)
- Curriculum & course development
  - New courses / labs developed
    - Added new laboratory exercises to Autonomous Agents (ugrad)
  - Lecture notes / slides developed
    - Developed lecture slides for Machine Learning
    - Updated lecture slides for Theory of Computation
    - Updated lecture slides for Autonomous Agents (undergraduate)
    - Updated lecture slides for Autonomous Agents (graduate)

B – Publications

- Publications in refereed journals
  - Published:

• Publications in refereed conferences
  o Published:

• Book chapters
  o Published:

C – Awards & Distinctions

• 2nd place award

• Invited Speaker
  o “RoboCup: A Challenge Problem for Artificial Intelligence”, Centro Politecnico Superior, University of Zaragoza, Spain, November 2010.

• Invited Speaker
  o “RoboCup: A Challenge Problem for Artificial Intelligence”, Department of Computer Science, University of Ioannina, Greece, March 2011.

D – Funded Projects

• Current projects:
• “TABS: Tackling Arthritis using a Biomechanical and Systems Biology approach”, *Thales – Support of the Interdisciplinary and/or Inter-Institutional Research and Innovation*, National Strategic Reference Network (NSRF) Programme, PI: L. Alexopoulos, NTUA.

**Project proposals submitted:**
• “ATLANTAS: Development of a prototype 3-D touch table for interactive 3-D geographical information system”, *Cooperation 2011 - Partnerships of Production and Research Institutions in Focused Research and Technology Sectors*, National Strategic Reference Network (NSRF) Programme, Proposal Leader: P. Partsinevelos, MRED, TUC.

### E – Professional service

• Associate Editor duties
  - *Editorial Board*, Journal of Intelligent Learning Systems and Applications
• Society Technical Committee duties
  - *Standard Platform League Executive Committee*, RoboCup Federation
  - *Technical Committee on Robot Learning*, IEEE Robotics and Automation Society
• Conference Technical Program Committee service
  - *28th International Conference on Machine Learning (ICML 2011)*
  - *25th AAAI Conference on Artificial Intelligence (AAAI 2011)*
  - *15th International RoboCup Symposium 2011*
  - *22nd International Joint Conference on Artificial Intelligence (IJCAI 2011)*
  - *3rd International Conference on Agents and Artificial Intelligence 2011*
  - *10th Intl Joint Conf on Autonomous Agents and Multiagent Systems 2011*
• Reviewing activities
  - *IEEE Transactions on Robotics (IEEE-TRO)*
  - *IEEE International Conference on Robotics and Automation 2011 (ICRA)*
  - *Artificial Intelligence Journal (AIJ)*

### F – Service to the Department and the School
• Departmental responsibilities
  o \textit{Departmental Representative}, TUC Library Committee
  o \textit{Editor}, Undergraduate Program Guide (Greek and English)

• School-level responsibilities
  o \textit{Editorial Board}, “TUC News” publication

\textbf{G – Advising}

• Graduate students
  o Ph.D. and M.Sc. theses in progress (supervisor)
  o Ph.D and M.Sc. theses completed (committee member)
  o Ph.D and M.Sc. theses in progress (committee member)
    1. Anestis Fachantidis (Ph.D. program), “Knowledge Transfer in Reinforcement Learning”, Department of Informatics, Aristotle University of Thessaloniki, Greece.

• Undergraduate students
  o Diploma theses completed (supervisor)
    2. Dimitrios Katsaitis, “Camera Motion and Depth Estimation from Image Sequences”
    3. Emmanuel-Theofanis Chourdakis, “Computer-Aided Music Composition using Inductive Logic Programming”
  o Diploma theses in progress (supervisor)
    1. Emmanuel Orfanoudakis, “Reliable Object Recognition for the RoboCup Domain”
    2. Iris Kyranou, “Path Planning for NAO Robots using an Egocentric Polar Occupancy Map”
3. Astero-Dimitra Tzanetatou, “Interleaving of Motion Skills for Humanoid Robots”
5. Nikolaos Kofinas, “Forward and Inverse Kinematics for the Nao Humanoid Robot”
6. Maria Karamitrou, “Local and Global State Estimation and Representation for the RoboCup SPL League”

- Diploma theses completed (committee member)
  3. Nikolaos Fragos, “Development of a 3D Open Environment Game with Opponent Autonomy”
  5. Serafeim Bousgos, “Parallel Processing of Aggregation Queries in Sensor Networks with Mobile Nodes”
  7. Nikolaos Sepetas, “Restriction Checking on OWL:2 Temporal Ontologies”
  8. Ioannis Stavrakantonakis, “Interoperability support between OWL 2.0 and XML environments”
  14. Nikolaos Nikolaou, “Music Emotion Classification”
  15. Georgios Christopoulos, “Fast, Parallel Stream Clustering using Hadoop Online”
  16. Lambros Papageorgiou, “Lineage Processing in Uncertain Operator Pipelines”

- Student team projects
  - Founder and leader of the RoboCup team Kouretes (www.kouretes.gr), the first and only Greek team participating in the RoboCup competition. Kouretes 2011 consisted of one graduate and five undergraduate ECE students working on their M.Sc./diploma theses.
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Katerina Mania
Rank: Assistant Professor
Years in rank: 5 years, 9 months
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Distributed Multimedia Information Systems and Applications (MUSIC)

A – Teaching

- Undergraduate courses taught
  - PLH 418 - Computer Graphics (Spring 2011)
  - PLH 101 – Introduction to Computers and Computer Science (Winter 2010)

- Graduate courses taught
  - PLH 612 – Visualization and Virtual Reality (Spring 2011)

- Curriculum & course development
  - Updated laboratory exercises for PLH 101
  - Updated large project work for PLH 418 and PLH 612
  - Updated lecture slides for PLH 101, PLH 418 and PLH 612

B – Publications

- Publications in refereed journals
  - Submitted

- Accepted


- Published

- Publications in refereed conferences
  - Submitted

  - Accepted


  o Other

C – Awards & Distinctions


  o Our paper selected as one of the best papers of *IEEE sponsored 3rd International Conference in Games and Virtual Worlds for Serious Applications 2011 (VSGames 2011)*, invited for publication in *International Journal of Interactive Worlds (IJIW)*, IBIMA Publishing.

D – Funded Projects

  • Current projects (at the Technical University of Crete, Greece):
    
    
    o Internal TUC Major Equipment Award: Immersive eye tracking system.

  • Projects awarded:
    
    o ‘Exploring Behavioural Fidelity of Lighting Simulations through Neuroscientific and Clinical Imaging Science Metrics for Normal and Patient Populations’, Budget 15.000, Basic Research Funding from the Basic Research Committee of TUC, 2012-2014, Collaborators: Brighton and Sussex Medical School.

Project proposals submitted:

• ‘3D ORO: Cooperative Intelligence for Emerging 3D Information for Personal Use’, THALIS call, went through second round.
• ‘SIMNEURO - Quantifying Simulation Fidelity through Neuroscientific and Clinical Imaging Science Metrics for Normal and Patient Populations’, submitted to ARXIMIDIS call.
• ‘3DVISUNTY: Mathematical Modelling, Rendering and 3D Visualization of Uncertainty’, submitted to ARISTEIA call (awaiting).
• ‘AGORA - Emerging Collective Intelligence in Serious Gaming: Teaching Science inspired by the Ancient Greek Environment’, submitted to SINERGASIA call (awaiting).

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).

• Editorial board
  o International journal of Interactive Worlds, IBIMA Publishing (since spring 2010).

• Steering Committee

• Conference Technical Program Committee service - membership
  o ACM Siggraph small conferences committee 2012
  o International conference on Virtual Systems and Multimedia 2012, Italy
  o Eurographics Symposium on Rendering 2011 (EGSR), Prague.
  o Computational Aesthetics 2011, sponsored by Eurographics, Canada.
• Workshop - Program Organization
  
o Program co-chair, ‘Human Centred AR, VR and Gaming’, workshop organized as part of the 10th ACM Siggraph Conference on Virtual Reality Continuum and Its Applications in Industry (VRCAI 2011), Hong-Kong, China.
  
o Publicity co-chair, 11th ACM Siggraph Conference on Virtual Reality Continuum and Its Applications in Industry 2012 (VRCAI 2012), Singapore.

• Reviewing activities
  

F – Service to the Department and the School

• Departmental responsibilities
  
o Regular member of the Graduate Studies committee of ECE, 2010-2011, 2011-2012.
  
o Substitute member of the Undergraduate Studies committee of ECE, 2011-2012
  
o Studies’ advisor for the Dept. of ECE, 2011-2012

G – Advising

• Active graduate students supervised
  
o Graduate students completed (at the University of Sussex)
    
    ▪ Maria Sifniotis ‘Mathematical Modelling and 3D Visualization of Archaeological Uncertainty’ (Ph.D, Year of initial enrollment in Ph.D program 2003), submitted PhD thesis September 2011.
Graduate students supervised (at the Technical University of Crete)

- Giwrgos Alexandros Koulieris ‘Selective Rendering Algorithms based on Human Perception Memory Schemas’ (Ph.D candidate, accepted for admission to PhD program, April 2011)
- Katerina Malisova ‘3D Conceptual Visualization’ (M.Sc. candidate, year of enrollment July 2011)
- Giwrgos Papadakis ‘Minimizing Head Tracking Latency in Immersive Virtual Environments and Exploring its Impact on Spatial Cognition’ (M.Sc. candidate, year of enrollment Dec. 2007, written-up)
- Giannis Christodoulou ‘A 3D Interactive Lighting System for fMRI Rendering Fidelity Experiments’ (M.Sc. candidate, year of enrollment Sept. 2008, written-up, to be presented February 2011)
- Nick Zervoudakis ‘Perceptually motivated visualization schemes’ (M.Sc. candidate, year of enrollment March 2010)

Ph.D. students supervised (at the University of Sussex)


Ph.D. and M.Sc. theses completed (committee member)

- Manolis Perakakis ‘Blending Speech and Graphical User Interfaces: An empirical study on multimodal mobile interaction’, supervised by Alexandros Potamianos.

Undergraduate students

Diploma theses supervised (completed)

- Kwsistis Malkogiannnis ‘3D Game Development with Optimized Opponent Routes’ (defended December 2010).
- Kostas Kaggelidis ‘Networked Application for 2D and 3D Architectural Design based on SVG, X3D and AJAX Technologies’ (defended September 2010).
- Nikolaos Fraggos ‘Open plan 3D game populated by opponents’ (defended October 2010).
- Grigoris Nikiforakis ‘Development of a 3D Networked Game’ (defended November 2010).

Diploma theses supervised (in progress)
- Giannis Giakoumidakis ‘A Methodology towards the photorealistic visualization of tsunamis applied to the past tsunami in Heraklion, Crete’ (assigned, in progress).
- Grigoris Kondadakis ‘Development of a 3D game populated by smart opponents’ (assigned, in progress).
- Stefan Petrovski ‘Implementing 3D Smart TUC Campus’ (in progress).

- Diploma theses (among others, committee member)
  - Valia Kalokiri, Giannis Skevakis, ‘EUROMUSE: A web-based system for the management of MUSEum objects and their interoperability with EUROpeana’.
  - Nikolaos Tarantilis ‘User Interface Management System for Event Visualization on Google Earth’.
  - Giwrgos Xatzigewrgakidis ‘Management of Spatiotemporal Information in Semantic Web Applications’.
  - Dimitris Katsaitis ‘Estimation of Three-Dimensional Camera Motion and Depth from Image Sequences’.
  - Serafeim Bousgos ‘Parallel processing of sensor network queries’.
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Euripides G.M. Petrakis
Rank: Assoc. Prof. & Lab. Director
Years in rank: 9
Full-time or part-time: Full Time
Division: Computer Science
Lab affiliation: Intelligent Systems Laboratory

A – Teaching

- Undergraduate courses taught
  - Multimedia Data Management
  - Computer Vision
  - Data Structure and File Structures

- Graduate courses taught
  - Computer Vision
  - Special Topics in Information Systems

B – Publications

- Publications in refereed journals
  - Submitted: those published/appeared (see below)
  - Accepted:
  - Published:
    - Euthymios Drymonas, Kalliope Zervanou, Euripides G.M. Petrakis, "Exploiting Multi-Word Term Similarity for Retrieval in

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

  ▪ Sotiris Batsakis, Euripides G.M. Petrakis, " Representing and Reasoning over Spatio-Temporal Information in OWL 2.0", 6th Semantic Web Applications and Perspectives (SWAP' 2010), September 21-22, Bressanone, Italy.

- Books and edited book chapters

- Patents
  - *GRANTED*
  - *FILED*

C – Awards & Distinctions

D – Funded Projects

- Current projects:
  - **YPERTHEN: Computational Tools and Services for Diagnosis and Personalized Treatment of Cancer (2011-2013)**
    - **Funding Agency:** INTERREG Greece-Cyprus
    - **Participants:** Univ. of Cyprus, FORTH, TUC
    - **Co-Principal Investigator for TUC:** Euripides G.M. Petrakis
    - **Funding Agency:** FP7-ICT-STREP, Theme ICT-2009.5.2 (Patient Safety)
    - **Participants:** Politecnico di Milano, INVATEC, SCS Srl, Univ. of Berfordshire, ANSYS FR, Univ. of Sheffield, TUC, AUSEBA S.L., GLOBO S.A.
    - **Co-Principal Investigator for TUC:** Euripides G.M. Petrakis
  - **POTRAIN: Postive Thinking Training (2011-2012)**
    - **Funding Agency:** Education, Audiovisual and Culture Executive Agency, Lifelong Learning: Comenius, ICT and Languages
    - **Participants:** DIAN Greece, INSPECTORATUL SCOLAR AL MUNICIPI, TUC, Colegiul Tehnic "Media", State Institute of Vocational Education, 138мо СОУ "Проф. Васил Златарски, The Moraitis School
    - **Principal Investigator for TUC:** Euripides G.M. Petrakis
• **SOWL: Spatio-Temporal OWL for Reasining and Querying over the Semantic Web (2009-2011)**
  o **Funding Agency**: Research Committee of TUC
  o **Participants**: TUC
  o **Principal Investigator for TUC**: Euripides G.M. Petrakis

• Project proposals submitted: Several in FP7, Lifelong Learning: Comenius, THALIS, SYNERGASIA

**E – Professional service**

• Associate Editor duties

• Society Technical Committee duties

• Conference Technical Program Committee service
  
  o Program committee member and Session chair - session on Clinical Informatics, 15th International Symposium on Health Information Management Research (ISHIMR’2011), 8-9 September 2011, in Zurich, Switzerland.
  
  
  
  o Program committee member and Session chair - session 6 on Feature Extraction and Pattern Recognition) στο Intern. Conference on Image Analysis and Recognition (ICIAR’2010), Povoa-de-Vatzim, Portugal, June 2010, 2011

• Conference Organization (specify role)

• Reviewing activities
  
  o In several Conferences & Journal in Information Systems, Semantic Web, Computer Vision.

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

• Departmental responsibilities
  
  o Laboratory Director

• School-level responsibilities
G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - A. Hliaoutakis, PhD Student, “A Freamework for Handling Medical Information in the Semantic Web”
  - PhD. And M.Sc. degrees awarded
- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - 4 diploma theses, in progress
  - Diploma theses completed (supervisor)
Annual Activity Report

For the period: Sept 1 2010 to Aug 31 2011

Name: Vasilis Samoladas
Rank: Assistant Professor
Years in rank: 7
Full-time or part-time: Full-time
Division: Informatics
Lab affiliation: Software technology and network applications (SoftNet)

A – Teaching

- Undergraduate courses taught
  - ΠΛΗ-301 Λειτουργικά συστήματα
  - ΠΛΗ-414 Κατανεμημένα συστήματα
  - ΠΛΗ-416 Επεξεργασία πολυδιάστατων δεδομένων

- Graduate courses taught
  - ΠΛΗ-602 Κατανεμημένα συστήματα
  - ΠΛΗ-628 Επεξεργασία πολυδιάστατων δεδομένων

Labs taught
  ΠΛΗ-301 Λειτουργικά Συστήματα
  ΠΛΗ-414 Κατανεμημένα Συστήματα

B – Publications

- Publications in refereed conferences
  - Submitted
1. George Tsatsanifos, Vasilis Samoladas, Efficient Load-Balancing for Peer-to-Peer Networks, submitted to P2P
2. George Tsatsanifos, Vasilis Samoladas: Towards Balanced Allocations for DHTs. submitted to DEXA
   - Accepted
   1. George Tsatsanifos, Vasilis Samoladas: Towards Balanced Allocations for DHTs. DEXA (2) 2011: 485-492

E – Professional service

- Associate Editor duties
- Society Technical Committee duties
- Conference Technical Program Committee service
- Conference Organization (specify role)
- Reviewing activities
- Participation in National Committees (e.g., EΔΕΤ)
- Other

F – Service to the Department and the School

- School-level responsibilities
  1. Member of Information Systems (Mihanografiko) Executive Board Committee.
  2. Member of Research and Teaching Personnel Association (Sillogos DEP) Executive Board.
- Other
  - TUC representative in EDET Open Source Initiative.

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    1. Michalis Argiriou
    2. Katerina Asimoglou
    3. Spiros Ninios
    4. Georgia Vlachou
  - PhD. And M.Sc. degrees awarded
    1. Stergios Charalambakis (MSc)

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    1. Dimitris Voliotis
2. Vasilis Vourlakis
   o Diploma theses completed (supervisor)
     1. Georgia Vlachou
     2. Vasilis Kasimatis
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Stavros Christodoulakis
Rank: Professor
Years in rank: 23
Full-time or part-time: Full-Time
Division: Computer Science
Lab affiliation: Director Distributed Multimedia Systems and Applications (MUSIC)

A – Teaching

- Undergraduate courses taught
  - Data Bases
  - Human Computer Interaction
  - Web Engineering

- Graduate courses taught
  - Human Computer Interaction (joint with the undergraduate)
  - Web Engineering (joint with the undergraduate)

- Labs taught
  - For all three supervised

- Curriculum & course development
  - For all three new course material
  - For all three new lab material
B – Publications

- Publications in refereed conferences

**Submitted:** those published/appeared (see below)

- Makris, Kalokyri, Skevakis, Gioldasis, Kazasis, Christodoulakis: Bringing Environmental Culture Content into the Europeana.eu portal: The Natural Europe Digital Libraries Federation infrastructure, Fifth Metadata and Semantics Research Conference, MTSR 2011
- Panteli L., Tsinaraki C., Ragia L., Kazasis F., Christodoulakis S. MObile Multimedia Event Capturing and Visualization (MOME), In the proceedings of the FTRA MUE 2011 Conference, 28-30 June, 2011
- Tarantilis N., Tsinaraki C., Kazasis F., Christodoulakis S., Gioldasis N. EVISUGE: Event VISUalization on Google Earth In the proceedings of SMAP 2011
- Lameras P., Smith D., Mournoutzis N., Christodoulakis S., Ovcin E., Stylianakis G. Transforming teaching and learning: Changing the pedagogical approach to using educational programming languages Short paper presented at the ALT-C conference, Nottingham, UK, 7-9 September, 2010
- Makris K., Gioldasis N., Bikakis N., Christodoulakis S. Ontology Mapping and SPARQL Rewriting for Querying Federated RDF Data Sources In the Proceedings of the 9th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE), Oct. 2010
- Stavrakantonakis G., Tsinaraki C., Bikakis N., Gioldasis N., Christodoulakis S. SPARQL2XQuery 2.0: Supporting Semantic-based Queries over XML Data In the Proceedings of the 5th International Workshop on Semantic Media Adaptation and Personalization (SMAP), Sep. 2010

**Accepted:**

- Makris, Kalokyri, Skevakis, Gioldasis, Kazasis, Christodoulakis: Bringing Environmental Culture Content into the Europeana.eu portal: The Natural Europe Digital Libraries Federation infrastructure, Fifth Metadata and Semantics Research Conference, MTSR 2011

**Published:**

- Panteli L., Tsinaraki C., Ragia L., Kazasis F., Christodoulakis S. MOBILE Multimedia Event Capturing and Visualization (MOIME), In the proceedings of the FTRA MUE 2011 Conference, 28-30 June, 2011
- Tarantilis N., Tsinaraki C., Kazasis F., Christodoulakis S., Gioldasis N. EVISUGE: Event VISUalization on Google Earth In the proceedings of SMAP 2011
- Lameras P., Smith D., Moumoutzis N., Christodoulakis S., Ovcin E., Stylianakis G. Transforming teaching and learning: Changing the pedagogical approach to using educational programming languages Short paper presented at the ALT-C conference, Nottingham, UK, 7-9 September, 2010
- Makris K., Gioldasis N., Bikakis N., Christodoulakis S. Ontology Mapping and SPARQL Rewriting for Querying Federated RDF Data Sources In the Proceedings of the 9th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE), Oct. 2010
- Stavrakantonakis G., Tsinaraki C., Bikakis N., Gioldasis N., Christodoulakis S.. SPARQL2XQuery 2.0: Supporting Semantic-based Queries over XML Data In the Proceedings of the 5th International Workshop on Semantic Media Adaptation and Personalization (SMAP), Sep. 2010

- **Books and edited book chapters**


**D – Funded Projects**

**Current projects:**

- pSkills: Programming Skills Development in Secondary Education by means of Modern Educational Programming Languages, EU, Principal Investigator for TUC.
- Organic.MedNet: Developing the Skills of Organic Agriculture Trainers for the Mediterranean, EU, Principal Investigator for TUC.
- NaturalEurope: Natural History & Environmental Cultural Heritage in European Digital Libraries for Education, EU, Principal Investigator for TUC.

**Project proposals submitted:**

- ODS, Open Discovery Space, EU, (accepted), Principal Investigator for TUC.
- Open Learning, ESPA, (accepted), Principal Investigator for TUC.
E – Professional service

- Conference Technical Program Committee service
  TPDL 2011

- Conference Organization (specify role)
  EDBT Board, TPDL Board

F – Service to the Department and the School

- Departmental responsibilities
  - Graduate Program Committee
  - Lab Director

- School-level responsibilities
  - Member of the Board of Institute of Telecommunications
  - Member MODIP

G – Advising

- Active graduate students supervised
  Ph.D. and M.Sc. students supervised
  - Arapi, PhD
  - Kalokyri, MSc
  - Skevakis, MSC
  - Makris, MSC
  - Christoulakis, MSC
  - Pitsiladis, MSC
  - Mylonakis, MSC
  - Stylianakis, MSC
  - Trohatou, MSC

- Undergraduate students supervised
  Diploma theses in progress (supervisor)
  - Kyfonidis
  - Kanellidi
  - Kalabratsidou
  - Tarantilis
  - Stavrakantonakis
  - Moraiti
  - Kolokotronis
  - Klotsonis

  Diploma theses completed (supervisor)
  - Kalokyri
- Skevakis
- Makris
Systems Division

Faculty members

- Stavroulakis Petros
Annual Activity Report Template

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Peter Stavroulakis
Rank: Professor
Years in rank: 20
Full-time or part-time: Full-time
Division: Systems
Lab affiliation: Automation

A – Teaching

- Theory and Applications of Automatic Control
- Optimal Control
- Neural Networks (graduate course)

B – Publications

- Publications in refereed conferences
  - Accepted

E – Professional service

- Guest Editor for a special issue of the International Journal of Multimedia Information security. The special issue internationally reviewed with the strictest standards will be published soon. Responsible for all phases of the special issue.

- Associate Editor duties
- China Communications Journal.
- International Satellite Systems and Networking.

- Society Technical Committee duties
  - Founding Member of the IEEE Technical Committee on Communication and Information Security.

- Reviewing activities
  - Reviewer of IEEE (4 papers)
  - Electronic Letters (5 papers)
  - International Journal of Communication Systems (5 papers)
  - Communications Journal for the old IEE, now IET (3 papers)
  - CHINA COMMUNICATIONS JOURNAL (20 papers)

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

- School-level responsibilities
  - Member of board of regents
  - EAKE
  - Institute
    - Founder of the only Institute in TUC out of six proposals from the TUC and twenty 26 from all other Greek Universities.
  - Other
Electronics and Computer Architecture Division

Faculty members

- Balas Costas, Associate Professor
- Bucher Matthias, Assistant Professor
- Dollas Apostolos, Professor
- Kalaitzakis Kostas, Professor
- Koutroulis Eftichios, Assistant Professor
- Papaefstathiou Ioannis, Assistant Professor
- Pnevmatikatos Dionisios, Associate Professor
- Stavrakakis Georgios, Professor
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Costas Balas  
Rank: Associate Professor  
Years in rank: 9.5 yrs  
Full-time or part-time: Full-time  
Division: Electronics and Computer Architecture Division  
Lab affiliation: Electronics Laboratory

A – Teaching

- Undergraduate courses taught
  - Electronics I
  - Optoelectronics

- Graduate courses taught
  - Optoelectronics
  - Special Topics on Optoelectronic Biomedical Technology

- Labs taught
  - Electronics I
  - Optoelectronics

- Curriculum & course development
  - Lecture notes / slides developed
    4 Lectures for the new Biomedical Engineering course
    6 Lectures for the international “BEST” summer school

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

  o Accepted:

  o Published:

• Publications in refereed conferences
  o Submitted: those published/appeared (see below)
    ▪ G. Papoutsoglou, A. Anastasopoulou, G. Stavrakakis, W.P. Soutter and C. Balas, *“In vivo Dynamic Imaging, in silico Modeling and Global Sensitivity Analysis for the Study and the Diagnosis of Epithelial Neoplasia”* 33rd Annual International Conference of the IEEE EMBS Boston, Massachusetts USA, August 30 - September 3, 2011

  o Accepted:
    ▪ G. Papoutsoglou, A. Anastasopoulou, G. Stavrakakis, W.P. Soutter and C. Balas, *“In vivo Dynamic Imaging, in silico Modeling and Global Sensitivity Analysis for the Study and the Diagnosis of Epithelial Neoplasia”* 33rd Annual International Conference of the IEEE EMBS Boston, Massachusetts USA, August 30 - September 3, 2011

  o Published:

- Books and edited book chapters

- Patents
  - GRANTED
  - USA Patent C. Balas P91785US00 “Methods for characterizing tissues”.

D – Funded Projects

- Current projects:
  - “OncoSeed Diagnostics: Biology of Circulating Tumour Cells, Distant Metastasis & Development of Liquid Biopsy Methods”. Funding source: «COOPERATION»-SUB-ACTION II: «Large Scale Cooperative Projects».
  - “In vivo Molecular Imaging of Epithelial Pre-Cancers based on Dynamic Optical Scattering Modeling” Heraklitos
  - Imaging system for assessing papillary response to tunable monochromatic light excitation. Funding source: TUC internal program for supporting graduate research.

- Project proposals submitted:
  - FP7-ICT-2011-C, FET: Reconfigurable Live Spectral Imaging

E – Professional service

- Reviewing activities
  - Journal of Biophotonics, Optical Engineering, Optics express

F – Service to the Department and the School

- Departmental responsibilities
  - 5th and 6th semester student advisor committee

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
- Tsapras Athaniasios (PhD)
- Papoutsoglou George (PhD)
- Georgiou Nikos (MSc)
- Epitropou George (MSc)
- Kavadias Vasilis (MSc)
- Iliou Dimitris (MSc)
- PhD. And M.Sc. degrees awarded
  - Georgiou Nikos (MSc)
- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - Abatzi Fani
    - Rossos Christos
    - Nikos Tsoulidis
  - Diploma theses completed (supervisor)
    - Stamatiadou Maria
    - Zografos Odysseas
    - Iliou Dimitris
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Matthias Bucher
Rank: Assistant Professor (tenure)
Years in rank: 7+1/2
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Electronics Laboratory

A – Teaching

- Undergraduate courses taught
  - ECE 416 – Design of CMOS Analog Integrated Circuits (Fall 2010)
  - ECE 311 – Electronics II (Spring 2011)

- Graduate courses taught
  - ECE 604 – Special Themes of Analog Integrated Circuit Design (Fall 2010)

- Labs taught
  - ECE 416 – Design of CMOS Analog Integrated Circuits (Fall 2010)
  - ECE 311 – Electronics II (Spring 2011)

B – Publications

- Publications in refereed journals
  - Submitted:


  o Accepted:
  

  o Accepted-Published:


• Publications in refereed conferences

  • I. Chlis, **M. Bucher**, “PMOS Drain-Bulk Connected Loads for Subthreshold Source-coupled Logic”, *Proc. 18th Int. Conf. on Mixed Design of Integrated Circuits and Systems (MIXDES)*, pp. 107-112, Gliwice, Poland, June 16-18, 2011. ieeexplore


  • N. Mavredakis, A. Antonopoulos, **M. Bucher**, “Measurement and Modeling of 1/f Noise in 180 nm NMOS and PMOS Devices”, *Proc. 5th European Conf. on Circuits and Systems for Communications (ECCSC)*, pp. 86-89, Belgrade, Serbia, Nov. 23-25, 2010. ieeexplore

• Workshop presentations

D – Funded Projects

- **Current projects:**

- **Project proposals submitted:**

- **Development of Electronics Laboratory infrastructure:**
  - 6 signal generators HAMEG HM8030-6 (10MHz) for educational lab, Cadence IC & System software (Electronics Laboratory budget).
  - Agilent ADS & ICCAP annual software packages (“Synergasia” projects).

E – Professional service

- Conference Technical Programme Committee service
TPC member, 18th International Conference on Mixed Design of Integrated Circuits and Systems (MIXDES) 2011.
TPC member, 25th Int. Conference EUROSENSORS 2011.

- Reviewing activities
  - IEEE Trans. on Electron Devices
  - IEEE Trans. on Computer Aided Design of Integrated Circuits and Systems
  - Solid-State Electronics
  - Semiconductor Science and Technology
  - Journal of Applied Physics
  - Microelectronics Engineering

- Expert for PhD examinations
  - Technical University Dresden (TUD), Faculty for Electrical Engineering and Informatics, Dresden, Germany, March 2011.
  - Universitat Rovira y Virgili (URV), Department of Electronic Engineering, Tarragona, Spain, March 2011.

F – Service to the Department and the School

- Departmental responsibilities
  - Director, Electronics Laboratory.
  - Member, Examinatory committee for admission of undergraduate students.

G – Advising

- Graduate students supervised
  - Ph.D. students supervised (supervisor):
    - Angelos Antonopoulos, Design of nanoscale RF CMOS transceivers, Enrollment: June 2008. Phone 28210 37269. aanton “at” electronics.tuc.gr
    - Nikos Mavredakis, Noise in high-voltage MOSFETs (HVMOSFETs), Enrollment: July 2010. Phone 28210 37269. nmavredakis “at” isc.tuc.gr
    - Maria-Anna Chalkiadaki, Compact modelling of multiple gate MOS transistors, Enrollment: March 2011.
M.Sc. theses completed (supervisor):
- Maria-Anna Chalkiadaki, Microwave Modelling and Parameter Extraction of MOSFETs, March 2011.

M.Sc. students supervised (supervisor):

Undergraduate students supervised

Diploma theses completed (supervisor):
- Ilias Chlis, Subthreshold Source-Coupled Logic (SCL) for Ultra-Low Power SRAM, March 2011.
- George Kargakis, Operation and analysis of zero-VT MOSFETs, Dec. 2010.

Diploma students (supervisor):
- Vassilis Mylonakis, Design of CMOS variable gain amplifier (VGA).
- Apostolos Spanos, RF Noise in advanced CMOS.
- Apostolos Tsivitis, Study of 1/f noise in MOS transistors.
- George Smaragdos, Design of integrated filters based on current-mode OPAMPs.
- Yannis Kyriakopoulos, Design of common-gate RF Low-Noise Amplifiers (LNA).
- George Gyrroukis, Compact modeling and circuit design with nano-scale MOSFETs.
- Dimitris Sideris, Characterization and compact modeling of SiC JFET.
- Nikos Pappas, TCAD investigation of analog properties of multi-gate CMOS transistors.
- Tassos Grammatikos, CMOS varactor modeling.
- Nicolas Gegios, RF CMOS modeling.
o Diploma theses completed (committee member):
  ▪ Panos Kalodimas.
  ▪ Michail Peronikolis.
  ▪ Odysseas Zographos.
Annual Activity Report

For the period: September 1, 2010 to August 31, 2011

Name: Apostolos Dollas
Rank: Professor
Years in rank: 10
Full-time or part-time: Full Time
Division: Electronics and Computer Architecture (HRY)
Lab affiliation: Microprocessor and Hardware Laboratory

A – Teaching

• Undergraduate courses taught
  ▪ HRY 101 - Logic Design (mandatory)
  ▪ HRY 203 - Advanced Logic Design (mandatory)

• Graduate courses taught
  ▪ HRY 631 – Special Topics on Reconfigurable Computing

• Labs taught
  o Supervised the labs of HRY 101
  o Supervised the labs of HRY 203, which I had completely re-written two years earlier on a different platform than the one previously used, introducing mandatory hands-on lab exercises with Xilinx Spartan FPGA’s and downloaded complete designs. The laboratory exercises were somewhat changed from the previous year to discourage usage of existing codes.

• Curriculum & course development
  o Lecture notes / slides developed: Revised the HRY 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 journals
  ▪ Submitted

  ▪ Accepted


• Publications in refereed conferences
  ▪ Submitted

  ▪ Accepted

  ▪ Published (all papers fully refereed)


• Books and edited book chapters

C – Awards & Distinctions

• International Competitions

• General co-Chairman (w/ Prof. Manfred Glesner from TU Darmstadt) of the 21st International Conference on Field Programmable Logic (FPL), which was held in Greece for the first time in its 21-event history (Chania, Crete).

D – Funded Projects

• Current projects:
  o Principal Investigator for the Project EVAGORAS: “Reconfigurable Logic Based Supercomputer for Biological, Ecological and Medical Data and Algorithms”, Interregional Cooperation Program Greece-Cyprus - INTERREG (Total Funding 779,940 Euros, TUC Funding 444,440 Euros), 2011 (2-year project).
  o 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).
  o Project “MERIT- Research and Development of an Electronic Prototype System for the Safety of Sea Transportation with Novel Use of RFID Technologies”, Greek Secretariat of Research and Technology GSRT under program Synergasia, funded at 300,000 Euros (TUC Budget 66,904 Euros), 2010 (3-year project).
  o Principal investigator for the entire Technical University of Crete in the student’s practical training program, coordinating the project “Practicum at the Technical University of Crete”, funded by the Greek Ministry of Education and Religious Affairs at 697,364 Euros for three years (2009-2012).

E – Professional service

- Conference Technical Program Committee service
  - Program Committee Member 19th IEEE Symposium on Field Programmable Custom Computing Machines (FCCM), Salt Lake City, USA, May 1-3, 2011.
  - Program Committee Member, IEEE/ACM 20th International Symposium on Field Programmable Logic (FPL), Milan, Italy, Aug 29 – Sept. 2, 2010.
  - General co-Chairman w/ Prof. Manfred Glesner (TUD) and Program Committee Member, 21st IEEE/ACM International Symposium on Field Programmable Logic (FPL), Chania, Greece, Sept. 5-7, 2011.
  - Program Committee Member, International Conference on Field Programmable Technology (FPT, IEEE Sponsored), Beijing, China, December 10-12, 2010.
  - Program Committee Member, International Conference on Field Programmable Technology (FPT, IEEE Sponsored), New Delhi, India, December 10-12, 2011.

- Member of the board of electors for tenure and promotion to the equivalent rank of Associate Professor at the Foundation of Research and Technology, Hellas (FORTH), Sept. 9, 2010.
- Member of the board of electors for an Associate Professor at the Democritian University of Thrace, March 1, 2011.
- Member of the recommendation committee and the election board towards a faculty tenure evaluation at the University of Cyprus, April 14, 2011.
- Member of several election committees and recommendation committees and faculty elections at the Dept. of ECE of the Technical University of Crete.

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, organisational issues, and when possible, attendance of the PC meeting. Because my field is rapidly changing, international conferences reflect the state of the art much more than archival journals and I have deliberately given the weight of my reviewing and committee activity on such conferences.

- Reviewing activities
o Several international conferences, including all in which I participate in the program committee and journals, plus international conferences such as SAMOS, including (but not limited to) the ACM Transactions on Reconfigurable Technology (TRETS), The IEEE Transactions on CAD (TCAD), The IEEE Transactions on VLSI Systems (TVLSI), etc.

F – Service to the Department and the School

• Departmental responsibilities
  o Faculty Advisor to the 1st semester students
  o Member, Undergraduate Studies Committee
  o Member of the Student Placement Committee, supervising the examination in the subject of Logic Design for graduates from other Departments who want to enroll at ECE.
  o Member of faculty recommendation committees in several faculty elections, member of the election board and participation in the election process of several faculty elections.

• Responsibility for Department-wide projects
  o Active participation in the Departmental External Evaluation, under the direction of the Department Chairman, Prof. A. Liavas. The external evaluation was conducted by faculty peers from abroad on May 31, 2011.

• School-level responsibilities
  o TUC Senate – appointed, TUC-wide principal investigator for the student’s practical training program, coordinating the 697,363 Euro project “Practicum at the Technical University of Crete” for three years (2009-2012).
  o Active participation in the preparation towards external evaluation of the DASTA TUC-wide project by a committee of international experts (faculty in institutions abroad) on January 9-10, 2012.
  o Member of Several Purchasing Committees, requiring the supervision of informal as well as national and international formal bidding processes (as applicable by Law), evaluation of the results, and recommendations to the TUC Senate. These committees resulted in significant purchases for the University, including the Convey HC-1 FPGA Supercomputer.

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised (advisor, completed)
    ▪ Sotiriades, Euripides (PhD)

  o Ph.D. and M.Sc. students supervised (advisor, in progress)
    ▪ Papademetriou, Kyprianos (PhD)
    ▪ Chrysos, Grigoris (PhD)
    ▪ Mavroidis, Ioannis (PhD)
- Meidanis, Dimitrios (PhD)
- Efstathiou, Dionissios (MS)
- Lakka, Matina (MS)
- Malakonakis, Pavlos (MS)
- Smerdis, Miltiadis (MS)
- Ilias, Anargyros (MS)
- Nikoloudakis, George (MS)

- PhD. And M.Sc. degrees awarded (committee member)
  - Mavroidis, Iakovos (PhD)
  - Christou, Panagiotis (MS)

- PhD and M.Sc. Degrees (committee member)
  - Mavroidis, Ioannis (PhD)
  - Mavroidis, Iakovos (PhD)
  - Kornaros, George (PhD)
  - Nikitakis, Antonios (PhD)
  - Meidanis, Dimitrios (PhD)
  - Dagritzikos, Panagiotis (MS)
  - Kartsonakis, Ioannis (MS)
  - Agadakos, Ioannis (MS)

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - Apostolakis, Stavros
    - Kouinis, Konstantinos
    - Koukousoulas, Pantelis
    - Noulas, Georgios
    - Rousopoulos, Christos
    - Thomas, Sotirios
    - Vastarouchas, Georgios
  
  - Diploma theses in progress (committee member)
    - (Several, in progress)

  - Diploma theses completed (committee member)
    - Chlis, Ilias
    - Kalederi, Maria
    - Makris, Ioannis
    - Mountakis, Kyriakos Simon
    - Papaioannou, Savvas
    - Pappas, Konstantinos
    - Papantonakis Panagiotis
    - Petsa, Aekaterini
    - Raptis, Grigoris
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Kostas Kalaitzakis
Rank: Professor
Years in rank: 8
Full-time or part-time: Full-time
Division: Electronics & Computer Architecture
Lab affiliation: Electric Circuits & Renewable Energy Sources Lab.

A – Teaching

- Undergraduate courses taught
  - HRY402 - Electric Measurements and Sensors (8th semester)
  - HRY212 – Electric Circuits Analysis (3rd semester)

- Graduate courses taught
  - HRY602 – Special topics on Electric Measurement Systems

- Labs taught
  - HRY402 - Electric Measurements and Sensors (8th semester)
  - HRY212 – Electric Circuits Analysis (3rd semester)

- Curriculum & course development
  - New courses / labs developed
    - HRY402 - Electric Measurements and Sensors (8th semester).
    Revised thoroughly. All exercises redesigned.

B – Publications

- Publications in refereed journals
Accepted:

Publications in refereed conferences

Accepted:

Published:

D – Funded Projects

Current projects:
- Researcher in a project entitled "Positive-Energy Building thru Better Control Decisions (PEBBLE)", project number 248537, project coordinator Technical University of Crete, funded by EE in the framework FP7-ICT-2009.6.3: ICT FOR ENERGY EFFICIENCY, 2010-2012, total budget 2.4 M€, 500 k€ for the TUC.
- Researcher in a project entitled “Detailed environmental impact assessment for the preparation of the Environmental Impact Study for installation of a solar thermal power plant of 50 MW in Akrotiri, Chania”, contract between Enolia Co. and Technical Univ. of Crete, total budget 118 k€.
o Researcher in a project entitled “Siting study for the sustainable establishment of windfarms in the region of Crete”, contract between Region of Crete and Technical Univ. of Crete, total budget 26 k€.
o Researcher in a project entitled “GREEN@Hospital: Web-based energy management system for the optimization of the energy consumption in hospitals”, funded by the E.U., total budget 1.5 M€, budget for TUC 168 k€.

F – Service to the Department and the School

• Departmental responsibilities
  o Organization, design and purchase of equipment for the Electric Energy Laboratory

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised
  ▪ V. Bakirtzoglou, year of initial enrollment in M.Sc. program: 2009.
  
o PhD. And M.Sc. degrees awarded
  ▪ K. Papadakis (M.Sc.), year of initial enrollment in M.Sc. program 2004.

• Undergraduate students supervised
  o Diploma theses in progress (supervisor)
  ▪ A. Sfondouri
  ▪ T. Mantzioros
  ▪ K. Kagarakis
  ▪ G. Manouras
  ▪ P. Kalodimas
  ▪ H. Papastavrou
  ▪ J. Zoufios
  ▪ J. Kalogiannakis
  ▪ A. Baryaba
  ▪ A. Pafilis
  ▪ T. Vasiloudis
  ▪ J. Sideratos
  ▪ K. Bonis
  ▪ N. Apsouris
  ▪ G. Spyridakis
  ▪ T. Mallisovas
K. Sfakianakis
A. Baryaba
G. Palolli
K. Tsogas
G. Dalaperas
P. Matzoros

- Diploma theses completed (supervisor)
  - A. Sfondouri
  - T. Mantzioros
  - K. Kagarakis
  - G. Manouras
  - P. Kalodimas
  - H. Papastavrou
  - J. Zoufios
  - J. Kalogiannakis
Technical University of Crete
Department of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Eftichios Koutroulis
Rank: Assistant Professor (awaiting official appointment)
Years in rank: -
Full-time or part-time: Part-time
Division: Electronics & Computer Architecture
Lab affiliation: Electric Circuits & Renewable Energy Sources Laboratory

A – Teaching

• Undergraduate courses taught
  o ACE 511 - VLSI and ASIC System Design (Fall semester 2010)
  o ACE 102 - Basic Circuit Theory (Spring semester 2011)

• Labs taught
  o ACE 511 - VLSI and ASIC System Design (Fall semester 2010)
  o ACE 102 - Basic Circuit Theory (Spring semester 2011)

• Curriculum & course development
  o New courses / labs developed
    ▪ ACE 102 - Basic Circuit Theory (Spring semester 2011)
  o Lecture notes / slides developed
    ▪ ACE 511 - VLSI and ASIC System Design (Fall semester 2010): updated the existing slides (440 slides)
    ▪ ACE 102 - Basic Circuit Theory (Spring semester 2011): developed 442 new slides

B – Publications
• Publications in refereed journals
  o Submitted:

• Publications in refereed conferences
  o Accepted:

  o Published:
D – Funded Projects

- Project proposals submitted:
  - THALIS call (English version)
  - European Space Agency – Greek industry incentive scheme call
  - SYNERGASIA call

E – Professional service

- Associate Editor duties:
  - Member of the Editorial Board of the “Renewable Energy” journal (April 2011-present).

- Conference Organization (specify role)
  - Local Arrangements Chair for the 2011 International Conference on Field Programmable Logic and Applications (FPL 2011).

- Reviewing activities
  Reviewed 29 journal papers and 21 conference digests and full papers:
  - IEEE Journal of Photovoltaics
  - IEEE Transactions on Industrial Electronics
  - IEEE Transactions on Instrumentation & Measurement
  - IEEE Transactions on Circuits and Systems II
  - IET Power Electronics
  - IET Renewable Power Generation
  - Electronics Letters
  - Renewable Energy
  - Energy
  - Measurement
  - International Journal of Electrical Power & Energy Systems
  - Advances in Engineering Software
o 27\textsuperscript{th} Annual IEEE Applied Power Electronics Conference & Exposition (APEC 2011)

o 37\textsuperscript{th} Annual Conference of the IEEE Industrial Electronics Society (IECON 2011)

o 2011 IEEE International Symposium on Industrial Electronics (ISIE 2011),


G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - Matina Lakka, matinalakka@gmail.com (MSc Student, 2\textsuperscript{nd} year in program)
    - Stefanos Saridakis, stef_saridakis@yahoo.gr (MSc Student, 1\textsuperscript{st} year in program)

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - Christos Koukouzas
    - Nikos Petridis
    - George Kimionis
    - Nikos Vatsithianos
    - Chris Constantopoulos
    - Nikos Achilladelis
    - Theodore Sotiris
    - Nikos Fanioudakis
    - Dimitris Zografos
    - Alex Paraskeuas
    - Charalambos Paravalos (co-supervised with Assistant Professor V. Samoladas)
    - Lefteris Kyrousis
  
  - Diploma theses completed (supervisor)
    - Ioannis Kalogiannakis
Technical University of Crete
Department of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Ioannis Papaefstathiou
Rank: Assistant 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

- Undergraduate courses taught
  - HRY 401 – Embedded Systems Design (Fall 2010)
  - HPY 412 – Computer Organization (Spring 2011)

- Graduate courses taught
  - HRY 501 – Design of Special Purpose Architecture (Spring 2011)

- Labs taught
  - HRY 401 – Embedded Systems Design (Fall 2010)
  - HPY 412 – Computer Organization (Spring 2011)

- Curriculum & course development
  - New courses / labs developed: HRY 501 – Design of Special Purpose Architectures (based on new book and new material)

B – Publications

- Publications in refereed journals
  - Published

- Publications in refereed conferences
  - Submitted: those published/appeared (see below), plus
    - A. Brokalakis, I. Papaefstathiou, “Using Hardware-based Forward Error Correction to reduce the overall energy consumption of WSNs”, submitted to IEEE WCNC 2012, Paris, France
  - Accepted: same as published (see below) plus
  - Published
    - G. Mplemenos, K. Papadopoulos, I. Papaefstathiou “Using Reconfigurable Hardware Devices in WSNs for Reducing the
Energy Consumption of Routing and Security Tasks”, IEEE GLOBECOM 2010, December 6-10, Maimi, USA (Acceptance rate 31%).

C – Awards & Distinctions

- Invited Speaker, ECOSENSE 2011

D – Funded Projects

- Current projects:
  - European Research Grant Capacities Programme (Research for the benefit of SMEs), Title: *Open Source FPGA Accelerator & Hardware-Software Codesign Toolset for CUDA Kernels (FASTCUDA)* November 2011.
  - ARTEMIS EU projects, Title: *WSN Development, Planning and Commissioning & Maintenance ToolSet (WSN-DPCM)*, October 2011.
  - ARTEMIS EU projects, Title: *new embedded Systems architecture for multi-Layer Dependable solutions (nShield)*, September 2011.

E – Professional service

- Conference Technical Program Committee service
  - IEEE FPL 2011
  - IEEE ICEAC 2011
  - IEEE PARMA 2011
  - IEEE ICNC-11
  - UCHPC 2011
  - Several other smaller workshops

- Conference Organization
  - FPL2011 Financial Chair

- Reviewing activities
  - Regular reviewer for *Elsevier Microprocessors and Microsystems Journal*,
  - Regular reviewer for *IEEE Transactions on Circuits and Systems for Video Technology*
  - Regular reviewer for *ACM Transactions on Reconfigurable Technology and Systems*
  - Regular reviewer for *IEEE Transactions on Parallel and Distributed Systems*

G – Advising
• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised
    ▪ Antonis Nikitakis (Ph.D.), Year of initial enrollment in program: 2008
    ▪ Panagiotis Karkazis, (M.Sc.), Year of initial enrollment in program: 2010.
    ▪ Panagiotis Dagritzikos, (M.Sc.), Year of initial enrollment in program: 2009.
    ▪ Ioannis Agadakos, (M.Sc.), Year of initial enrollment in program: 2010.
    ▪ Ioannis Kartsonakis (M.Sc.), Year of initial enrollment in program: 2010.

• Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    ▪ N. Pogkas
    ▪ D. Daskalakis
    ▪ D. Tsiamasiotis
    ▪ A. Katsoulas
    ▪ P. Papantonakis
    ▪ M. Papadovasilakis
  o Diploma theses completed (supervisor)
    ▪ S. Papaioannou
    ▪ G. Raptis
    ▪ M. Kalenteri
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Dionisios Pnevmatikatos
Rank: Professor
Years in rank: 2
Full-time or part-time: Full time
Division: Electronics and Computer Architecture
Lab affiliation: Microprocessor and Hardware laboratory

A – Teaching

- Undergraduate courses taught
  - HRY 201 – Digital Computers (Fall 2010)
  - HRY 419 – Computer Architecture (Spring 2011)

- Graduate courses taught
  - HRY 613 – Parallel and Distributed Computer Architecture (Spring 2011)

- Labs taught
  - HRY 201 – Digital Computers (Fall 2010)
  - HRY 411 – Computer Architecture (Spring 2011)

- Curriculum & course development

  Lecture notes / slides developed for:
  - Digital Computers (Update)
  - Computer Architecture (Update)

B – Publications

- Publications in refereed journals
o Accepted:
  - G. Passas, M. Katevenis, D. Pnevmatikatos: Crossbar NoC’s are scalable beyond 100 nodes, accepted in the IEEE Transactions on Computer Aided Design of Integrated Circuits and Systems (TCAD)

o Published:

• Publications in refereed conferences
  
  o Published:
    - George Kornaros, Dionisios N. Pnevmatikatos: Hardware-assisted dynamic power and thermal management in multi-core SoCs. ACM Great Lakes Symposium on VLSI 2011: 115-120

D – Funded Projects

• Current projects:
  - Departmental Practical Training

• Project proposals submitted:
  - Departmental Practical Training proposal
  - Synergasia MERIT
  - FP7 FASTER
  - FP7 DESYRE

E – Professional service

• Conference Technical Program Committee service
  - International Conference on Field Programmable Logic and Applications (FPL) 2010
  - International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation (IC-SAMOS) 2010
  - International conference on Rapid System Prototyping (RSP) 2010
  - IEEE International Conference On Computer Design (ICCD), 2010
  - International Conference on Parallel Processing (ICPP), 2010
  - VLSI-SoC
- Design and Test Europe (DATE), Architecture and Microarchitecture Track, 2010
- Annual IEEE/ACM International Symposium on Microarchitecture (MICRO), 2011

- Conference Organization
  - Co-Chair FPL 2011

- Reviewing activities
  - Journal Reviewer:
    - Computer Architecture Letters
    - IEEE TVLSI
    - IEEE TC
    - TPDS
    - JSA
  - Conference Reviewer:
    - IFIP/IEEE International Conference on Very Large Scale Integration (VLSI-Soc) 2009
    - Canadian Conference on Electrical and Computer Engineering
  - Workshop Technical Committee Member:
    - HIPEAC-RC (Reconfigurable Computing) 2010
    - HIPEAC- Interconnection Network Architectures: On-Chip, Multi-Chip (INA-OCMC) 2010
    - ParaFPGA

F – Service to the Department and the School

- Departmental responsibilities
  - Director, Microprocessor and Hardware (MHL) Laboratory
  - Undergraduate Program Committee Member
  - Graduate Program Committee Member
  - Responsible for the Department-wide practical training project

- School-level responsibilities
  - University Disciplinary committee
  - University Graduate committee

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - George Kornaros Ph.D.
    - Ioannis Mavroidis Ph.D.
- S. Koidis M.Sc.
- Ch. Vatsolakis M.Sc.

  o PhD. And M.Sc. degrees awarded
  o Diploma theses completed (committee member)
    - Efstathiou Dionisis
    - Christou Panagiotis

- Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    - Petropoulos Panagioths
  o Diploma theses completed (supervisor)
    - Makris Ioannis
    - Pappas Konstantinos
    - Petsa Aikaterinh

  o Diploma theses completed (committee member)
    - Kalederi Maria
    - Mountakis Kiriakos-Simos
    - Raptis Grigorios
Annual Activity Report

For the period: 1-9-2010 to 31-8-2011

Name: George Stavrakakis
Rank: Professor
Years in rank: 16
Full-time or part-time: Full-time
Division: Electronic and Computer Architecture
Lab affiliation: Electric Circuits and Renewable Energy Sources (www.elci.tuc.gr)

A – Teaching

- Undergraduate courses taught
  - Basic Circuit Theory (HRY 202)
  - Renewable Energy Sources (HRY 416)

- Graduate courses taught
  - Advanced topics in Optimal Control (SYS 603)

- Labs taught
  - Basic Circuit Theory (HRY 202)
  - Renewable Energy Sources (HRY 416)

- Curriculum & course development
  - New courses / labs developed: Renewable Energy Sources (HRY 416)
  - Revision of courses: Basic Circuit Theory (HRY 202)
  - Lecture notes / slides developed: Renewable Energy Sources (HRY 416)

B – Publications

- Publications in refereed journals
Submitted : 4
Accepted : 2
Published : 2 (see below)


- Publications in refereed conferences
  Submitted : 8
  Accepted : 8
  Published : 8 (see below)


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

Έξυπνη μέθοδος και ολοκληρωμένη ηλεκτρονική διαχείριση πληροφοριών σε συστήμαta εξασφάλισης εσωτερικής άνεσης με ταυτόχρονη ενεργειακή διαχείριση κτιρίων. (OBI2004010045)

D – Funded Projects

Current projects:


- CREAM: Innovative technological platform for compact and reliable electronic integrated in actuators and motors, EC FP-7, September 1 2010 – August 31 2011. Sub-contractor of the Partner Technological Educational Institute of Piraeus.

- Project proposals submitted: 2

E – Professional service

- Society Technical Committee duties: one (International Committee of Electrical Machines- ICEM).

- Reviewing activities: in four international Journals
  - Permanent invited Reviewer of “Zentralblatt fur Mathematik und ihre Grenzgebiete” (Mathematics Abstracts) edited by Springer-Verlag International publ.
• 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

• Participation in National Committees: Permanent Committee of the Prefecture of Crete for the Energy Planning of Crete

F – Service to the Department and the School

• School-level responsibilities
  o Other: member of the Technical Council of TUC

G – Advising

• Active graduate students supervised
  o Committee Member of PhD thesis already defended: 2
    1. Euripides Sotiriades
    2. Anastasios Kouvelas (Production and Management Engineering Dept.)
  o PhD students supervised: 1
    1. Tripolitakis Evagelos, vaggelis@electronics.tuc.gr
  o M.Sc Students supervised: 7
    1. Viskadouros Georgios
    2. Markoulakis Emmanouil
    3. Loukarakis Emmanouil
    4. Sytzanaki Athina
    5. Gobakis Konstantinos
    6. Panagiwtidou Natalia
    7. Limneos Georgios
  o M.Sc. degrees awarded: 2
    1. Viskadouros Georgios g.viskadouros@yahoo.gr
    2. Markoulakis Emmanouil markoul@otenet.gr
  o Committee Member of M.Sc. degrees awarded except the above: 1
    1. Margariti Vanessa vanes_mar_dk@hotmail.com

• Undergraduate students supervised
o Diploma theses in progress (supervisor): 14
o Diploma theses completed (supervisor): 8
o Diploma theses in progress (committee member): 12
o Diploma theses completed (committee member): 9
Telecommunications Division

Faculty members

- Bletsas Aggelos, Assistant Professor
- Digalakis Vassilios, Professor
- Zervakis Michail, Professor
- Karystinos George, Assistant Professor
- Koutsakis Polychronis, Assistant Professor
- Liavas Athanasios, Professor
- Paterakis Michail, Professor
- Potamianos Alexandros, Associate Professor
- Sidiropoulos Nikolaos, Professor
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Aggelos Bletsas  
Rank: Assistant Professor  
Years in rank: 2  
Full-time or part-time: Full-time  
Division: Telecommunications  
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught.  
  TEL 303 Telecommunication Systems II (6th semester).  
  TEL 412 Analysis & Design (Synthesis) of Telecom Modules (7th semester).  
  TEL 418 Computer Networks II (8th semester).

- Graduate courses taught  
  TEL 613 Analysis & Design (Synthesis) of Telecom Modules  
  (meets with TEL 412)

- Labs taught  
  TEL 412 Analysis & Design (Synthesis) of Telecom Modules.

- Curriculum & course development  
  - New courses / labs developed  
    New Laboratory exercise on Rooftop Networking for TEL 418.

  - Lecture notes / slides developed  
    Course Notes for 24 Lectures were developed for TEL303.  
    Course Notes for 2 Lab tutorials for TEL412.
B – Publications

• Publications in refereed journals

  o Submitted: those published/appeared (see below)


  A.G. Dimitriou, A. Bletsas and J.N. Sahalos, "Improvements of UHF RFID Coverage with Commodity Hardware, IEEE Antennas and Propagation Magazine (AP).

  A.G. Dimitriou, A. Bletsas, A.C. Polycarpou and J.N. Sahalos, "Theoretical Findings and Measurements on Planning an Operational UHF RFID System inside a Room", invited paper, Radioengineering.


  o Accepted:


  A.G. Dimitriou, A. Bletsas and J.N. Sahalos, "Improvements of UHF RFID Coverage with Commodity Hardware, IEEE Antennas and Propagation Magazine (AP).

  A.G. Dimitriou, A. Bletsas, A.C. Polycarpou and J.N. Sahalos, "Theoretical Findings and Measurements on Planning an Operational UHF RFID System inside a Room", invited paper, Radioengineering.


Published:


• Publications in refereed conferences

Submitted: those published/appeared (see below)


Accepted:


Published:


• Patents
  o GRANTED

C – Awards & Distinctions

Nominated and accepted position as Associate Editor in newly founded IEEE Wireless Communication Letters (WCL).

D – Funded Projects

- Current projects:
  FP7 IP Noptilus, led by Prof. Sidiropoulos and Prof. Liavas.

- Project proposals submitted:
  3 Proposals to GSRT Thalis (all approved).
  1 Proposal to GSRT Synergasia (as PI, under review).
  1 Proposal to FP7 (as PI, not funded).
  2 Proposals to Cyprus RPF (one approved).

E – Professional service

- Associate Editor duties
  IEEE Wireless Communication Letters.

- Conference Technical Program Committee (TPC) service
  TPC Member of IEEE ICC 2011 - Wireless Networking Symposium.
  TPC Member of IEEE GLOBECOM 2011 - Ad-hoc and Sensor Networking Symposium.
  TPC Member of IEEE GLOBECOM 2011 - Workshop on Distributed Antenna Systems for Broadband Mobile Communications.
  TPC Member of IEEE RFID Technologies and Applications 2011.

- Reviewing activities
  Reviews for major Class A IEEE Journals (mostly for IEEE Transactions on Wireless Communications).

F – Service to the Department and the School

- Departmental responsibilities
  Faculty representative for Board of European Students of Technology (BEST) – Chania Chapter, March 2011 Contest: two day event with significant student participation.
Organized Department’s first Open House at June 2011 (consisting of Talk, Lab Tours and Demonstrations by each Lab; the goal was to acquaint the Department to the local community). Major help from Prof. Lagoudakis and the whole Department (thank you!)

- School-level responsibilities
  Substitute-member at TUC Library Committee.

G – Advising

- Active graduate students supervised
  - M.Sc. students supervised

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - Eleftherios Kampianakis, “Custom, Remotely Programmable Embedded Radios”.
    - Manolis Alibertis, “Community RF sensing”.
    - Dimitris Ntilis, “Introduction to Rooftop Networking”.
    - Nikos Agadakos, “Multi-Channel MACs for Wireless Sensor Networks”.
    - Nikos Fassarakis-Hilliard, “Cooperative Localization under Bandwidth Constraints”.
    - Panos Alevizos, “Factor Graphs in Telecommunications: Theory and Applications”.

  - Undergraduate Students Research supervisor:
    - Konstadinos Tountas, “Networked GUI for RFID Infrastructure”.

92/120
Annual Activity Report

For the period: September 1, 2010 to August 31, 2011

Name: Vassilis Digalakis
Rank: Full
Years in rank: 11
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Information & Computer Networks Lab

A – Teaching

- Undergraduate courses taught
  - Statistical Modeling and Pattern Recognition
  - Probabilities and Random Signals

- Graduate courses taught
  - Machine Learning

B – Publications

- Publications in refereed conferences
  - Submitted

C – Awards & Distinctions
D – Funding

- Proposals submitted as Coordinator:
  - “Speech-Enabling Mobile Conversational Agents”, submitted to ICT Call - SME initiative on Digital Content and Languages.

E – Professional service

- Reviewer in several journals.
- ICASSP Reviewer
- Interspeech Reviewer
- Eusipco Reviewer and TPC member

F – Service to the Department and the School

- Departmental responsibilities
  - Director, Information and Computer Networks Lab
- Director, Telecommunication Systems Institute of Crete (TSI)

G – Advising

- Graduate students supervised
  - Pavlos Papadopoulos, PhD
  - Alex Georgogiannis, MSc
- Undergraduate students defended
  - Alex Georgogiannis
  - Michalis Tsinas
- Undergraduate students supervised
  - Kostas Spiliotis
  - Kostas Tsiakas
  - George Fragiadakis
Annual Activity Report

For the period: Sept 1, 2010 to Aug 31, 2011

Name: Michalis Zervakis
Rank: Professor
Years in rank: 11
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
  ▪ Digital Signal Processing
  ▪ Digital Image Processing

• Graduate courses taught
  ▪ Pattern Recognition

• Labs taught
  o Digital Signal Processing
  o Digital Image Processing

• Curriculum & course development
  o New courses / labs developed:
  o Lecture notes / slides developed: Digital Image Processing, Digital Signal Processing, Pattern Recognition
  o Authored textbooks: none

B – Publications

International Journals


Book Chapters

International Conferences

- Ioannis N. Dimou and Michalis E. Zervakis A Generalized-Space Expansion of Support Vector Machines for diagnostic systems. ITAB 2010 accepted 15/7/2010
- G. Livanos , M. Zervakis and G.C. Giakos "Histogram modeling of polarimetric images for analysis of material properties", 5th European Conference of the International Federation for Medical and Biological Engineering, Budapest, 14-18 September, 2011
D – Funded Projects

2011-2013  Interreg Cooperation Greece-Cyprus, Title: Development of Research Infrastructure for Clinical Computational tools and Services for improved diagnosis and estimation of optimal therapy for oncological diseases (YPER0EN), Grant Agreement no. : K1_01_04

2010-2013  ICT-2009.5.2 ICT for Patient Safety, Title: Real Time Simulation for Safer vascular Stenting (RT3S), Grant Agreement no. : 248801

2010-2015  GSRT Cooperation Programme, Title: OncoSeed Diagnostics: Biology of Circulating Tumour Cells, Distant Metastasis & Development of Liquid Biopsy Methods

2010-2013  GSRT Cooperation Programme, Title: Οστεοαρθρίτιδα: ολοκληρωμένη Συστηματική ανάλυση για στοχευμένη βιολογική θεραπεία

- Project proposals submitted:
  - During the Calls of ICT and Health participated in the submission of four Thalis and one STREP;

E – Professional service

- Associate Editor duties
- Society Technical Committee duties
  - Session Chair IST-10
  - International Programme Committee for IST 2011
- Reviewing activities:
- Other
  - External reviewer for one PhD thesis from NTUA

F – Service to the Department and the School

- Departmental responsibilities
  - Lab Director: Digital Image and Signal Processing Laboratory
  - Lab Director: Automation Laboratory

- School-level responsibilities
  - Member and vice-chair ELKE

G – Advising

- Completed PhDs
• Michalis Kounelakis, December 2011

• Completed MSc
  • Kostantina Moirogiorgou
  • Vasiliki Iordanidou

• Active graduate students supervised
  • Ph.D. and M.Sc. students supervised
    • Ioannis Dimou PhD student
    • Alexandros Roniotis PhD Student
    • Kostantina Moirogiorgou PhD student
    • George Livanos MASc student
    • Kostas Michalopoulos MASc student
    • Kalliopi Kalantzaki MASc student
Annual Activity Report

For the period: Sept. 1, 2010 to Aug. 31, 2011

Name: George Karystinos  
Rank: Assistant Professor  
Years in rank: 5  
Full-time or part-time: Full-time  
Division: Telecommunications  
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught  
  - TEL 201 – Signals and Systems (Fall 2010)

- Graduate courses taught  
  - TEL 601 – Probability and Random Processes (Fall 2010)

Labs taught  
TEL 201 – Signals and Systems Lab (Fall 2010)

B – Publications

- Publications in refereed journals  
  - Submitted: those published (see below), plus  
    1. A. Bletsas, J. Kimionis, A. G. Dimitriou, and G. N. Karystinos,  
  - Accepted: those published (see below)
  - Published


- Publications in refereed conferences
  - Submitted: those accepted or published (see below)
  - Accepted: those published (see below), plus
  - Published
D – Funded Projects

• Current projects
  o Participated in Grant INFSO-ICT-270180 titled “Noptilus,” led by Prof. A. P. Liavas.

• Project proposals submitted

E – Professional service

• Conference Technical Program Committee service
  o IEEE International Conference on Communications (ICC) 2012 - Wireless Communications Symposium.

• Reviewing activities
  o Reviewer for journals
    ▪ IEEE Communications Letters
    ▪ IEEE Signal Processing Letters
    ▪ EURASIP Journal on Advances in Signal Processing

F – Service to the Department and the School

• Departmental responsibilities
  o Member of the Graduate Studies Committee, Department of ECE, Technical University of Crete, Sept. 2010 - Aug. 2011.

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised
Ph.D. and M.Sc. degrees awarded

Undergraduate students supervised

Diploma theses in progress (supervisor)

1. John Fountzoulas, “Selection of subsets of orientations for high-dimensional space-filling Latin hypercube sampling.”
2. Alexandros Sklikas, “An algorithm with complexity O(N^3 logN) for rank-4 quadratic form maximization with a binary vector.”

Diploma theses completed (supervisor)

Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Polychronis Koutsakis
Rank: Assistant Professor (tenure-track)
Years in rank: 3 (in TUC), 5.5 (in total, McMaster+TUC)
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Information & Networks Laboratory

A – Teaching

- Undergraduate courses taught
  - Computer Networks I
  - Introduction to Modeling and Performance Evaluation of Communication Networks

- Graduate courses taught
  - Special Topics in Communication Networks

- Curriculum & course development
  - Lecture notes / slides developed:
    - Slides for both undergraduate courses that I taught

B – Publications

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

o Published:

- Publications in refereed conferences
  o Submitted: those published/appeared (see below)

  o Accepted:

- Patents

D – Funded Projects

- Current projects:
  o December 2011- November 2013, Principal Investigator, Research grant from the Technical University of Crete: “Self-Policing for Energy Efficient Multimedia Traffic Transmission over Wireless Local Area
Networks”, 15000 € total funding.

- March 2009-February 2012, Member of the Research Group of 15 university professors from 4 Canadian universities (University of Ottawa, University of Waterloo, McMaster University, Queen’s University) who wrote the research proposal titled: “WiSense: Wireless Heterogeneous Sensor Networks in the e-Society”. This research is being funded by the Ontario Research Fund Research Excellence (ORF-RE) and by the industry. Total budget: $9223800, ORF funding: $3074600. Industrial partners: Bell Canada, Alcatel-Lucent, IBM, RIM (Research in Motion), Freescale Semiconductor, PacketDNA, Wireless Network Design & EMC Services.

- Project proposals submitted:
  - ARISTEIA (Principal Investigator)
  - SYNERGASIA II (Coordinator: Athens University of Economics and Business)

E – Professional service

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

- Society Technical Committee duties
  - Voting Member of the IEEE Multimedia Communications Technical Committee (MMTC)
  - Member of the IEEE MMTC "Green Multimedia Communications" Interest Group
  - Member of the IEEE MMTC "QoE for Multimedia Communications" Interest Group
  - Member of the IEEE MMTC "Wireless Technology for Multimedia Communications" Interest Group

- Conference Technical Program Committee service
  - 13th Communications and Networking Simulation Symposium (CNS’10)
  - IEEE International Conference on Wireless Communications and Mobile Computing (IWCMC) 2010 – General Symposium
  - 35th IEEE Conference on Local Computer Networks (LCN) 2010
  - 8th ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2010)
  - 5th International Conference on Access Networks (AccessNets 2010)
  - 2nd International ICST Conference on Mobile Networks and Management (MONAMI 2010)
- 9th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2010)
- IEEE GLOBECOM 2010 Ad-Hoc and Sensor Networking Symposium
- IEEE GLOBECOM 2010 Selected Areas in Communications Symposium, Satellite and Space Communications Track
- IEEE International Workshop Towards Smart Communications and Network technologies applied on Autonomous Systems (SaCoNAS, in conjunction with GLOBECOM 2010)
- IEEE CCNC 2011 – Work in Progress Track
- 10th International Conference on Networks (ICN 2011)
- 10th International Symposium on Programming and Systems (ISPS 2011)
- 12th IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM 2011)
- 10th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2011)
- 14th Communications and Networking Simulation Symposium (CNS’11)
- 7th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob) 2011
- IEEE ICC 2011 – Communications Software, Services and Multimedia Applications Symposium
- IEEE ICC 2011 - Symposium on Selected Areas in Communications (SAC), Satellite and Space Communications (SSC) Track
- IEEE ICC 2011 – Wireless Networking Symposium

• Conference Organization (specify role)
  - Founder and General Co-Chair for the 1st International IEEE Workshop on Video Everywhere (VidEv 2012), part of the 13th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks, June 2012, San Francisco, USA

• Reviewing activities
  - IEEE Transactions on Mobile Computing
  - IEEE Transactions on Multimedia
  - IEEE Transactions on Circuits and Systems for Video Technology
  - IEEE Communications Letters
  - ACM/Springer Wireless Networks Journal
  - ACM/Springer Mobile Networks and Applications Journal
  - Pervasive and Mobile Computing (Elsevier Science Publisher)
  - Simulation Modelling Practice and Theory (Elsevier Publ.)

F – Service to the Department and the School

• Departmental responsibilities

107/120
• Substitute Member of the undergraduate studies committee
• Substitute Member of the graduate studies committee

G – Advising

• Active graduate students supervised
  o Ph.D. and M.Sc. students supervised
    ▪ Konstantina Dimitriou (MSc student)

• Undergraduate students supervised
  o Diploma theses in progress (supervisor). Students’ Names:
    ▪ Dimitra Vasileiadou
    ▪ Thomas Hall
    ▪ Ntora Kouskouli
    ▪ Vaggelis Maratsolas
    ▪ Irini Spanou
    ▪ Katerina Vlachaki
    ▪ Charis Stamos
    ▪ Georgia Koutsandria
    ▪ Manolis Skeuakis
  o Diploma theses completed (supervisor)
    ▪ Ioannis Sotiropoulos, “Call Admission Control for Multimedia Traffic Transmission over Wireless Cellular Networks”
    ▪ Athanasios Delimargas, “Traffic Policing for H.264 Video Streams”
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Athanasios P. Liavas
Rank: Professor
Years in rank: 3
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Telecommunications Lab

A – Teaching

- Undergraduate courses taught
  - Telecommunications Systems I
  - Wireless Communications

Curriculum & course development

- Electronic lecture notes & lab projects for Telecommunications Systems I
- Electronic lecture notes & lab projects for Wireless Communications

B – Publications

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

  - Accepted:
    1. A. P. Liavas and D. Tsipouridou "Single-Carrier systems with MMSE linear equalizers: performance degradation due to channel

- Publications in refereed conferences
  - Published:

### D – Funded Projects

- Current projects:

### E – Professional service

- Society Technical Committee duties
  - Elected Member: *IEEE Signal Processing for Communications and Networking Technical Committee*

- Conference Technical Program Committee service
  - *SPAWC 2011*

- Reviewing activities

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

- Departmental responsibilities
  - Department Chair
  - Member of the Undergraduate and Postgraduate Study Committee
  - Member of the Internal Evaluation Committee

- School-level responsibilities
  - Senate member (as ECE Department Chair)

### G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
1. Aleksios Balatsoukas-Stimming, MSc student (2010--)
   - PhD. And M.Sc. degrees awarded
     1. Emmanouil Matigakis, MSc

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    1. Charitakis Georgios
    2. Georgiadou Despoina
  
  - Diploma theses completed (supervisor)
    1. Mantzakos Panagiotis
    2. Aleksiou Evaggelos
    3. Lakiotakis Emmanouil
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Michael Paterakis
Rank: Professor
Years in rank: 12
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Information and Computer Networks Laboratory

A – Teaching

- Graduate courses taught
  - Computer Communication Network Protocols (TEL 605), taught in the Spring semester. The last time I offered the course was in 2004, so this time new material was introduced and the course was developed from scratch.

D – Funded Projects

- Current projects:
F – Service to the Department and the School

- School-level responsibilities

  o Member of the University Senate, 2005 – 2010, (University Vice-Rector).
  o Associate Chairman of the Board, 2008 – 2010, Company for the Management and Exploitation of the Property and for the Development, Management and Exploitation of the Technology Park of the Technical University of Crete.
  o Member of the Board, Telecommunication Systems Research Institute (T.S.I.), Technical University of Crete.
Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Alexandros Potamianos
Rank: Associate Professor
Years in rank: 8+1/2
Full-time or part-time: On leave
Division: Telecommunications
Lab affiliation: Speech and Dialogue Group

B – Publications

- Publications in refereed journals
  - Submitted:
  - Published:

- Publications in refereed conferences
  - Accepted/Published:
    - P. Tsiakoulis, and A. Potamianos, "On the Effect of Fundamental Frequency on Amplitude and Frequency Modulation Patterns in


**Accepted:**


---

**D – Funded Projects**

- **Current projects (Principal Investigator):**

- **Current projects (collaborator):**
  - "Dicta-Sign: Sign Language Recognition, Generation and Modeling with Application in Deaf Communication" FP7-STREP, NTUA PI: P. Maragos, 2009 - 2011

- **Project proposals submitted:**
  - PortDial, "Language Resources for Portable Multilingual Spoken Dialogue Systems", EU-IST FP7
  - MALiDA, "Machine-Aided Linked-Data Annotation for Video Digital Archives", EU-IST FP7

---

**E – Professional service**

- Editorial Board for "Computer, Speech and Language" Journal (Elsevier)

- Associate Guest Editor for the special issue on "Speech and language processing of children's speech for child-machine interaction applications", *ACM Transactions on Speech and Language Processing*, Aug. 2011

- Conference Organization:
  - 2010 IEEE/ACM Workshop on Spoken Language Techn. (Demo Chair)
- 2011 MUSCLE International Workshop on Computational Intelligence for Multimedia Understanding (Program Committee)

- Reviewing activities
  - Reviewer for *IEEE Trans. on Audio, Speech and Language Processing, IEEE Signal Proc. Letters, Speech Processing, ACM Trans. on Speech and Language Processing*
  - Reviewer for EU-IST language technology area

**G – Advising**

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - Ilias Iosif (Ph.D.), 2007-
    - Maria Giannoudaki (M.Sc.), 2008-
    - Valia Kouloumenta (M.Sc.), 2010-

  - Ph.D. degrees awarded
    - Manolis Perakakis (Ph.D.), 2011

  - M.Sc. degrees awarded
    - Theodosis Moschopoulos (M.Sc.), 2011

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - Stamatis Kourpas

  - Diploma theses completed (supervisor)
    - Giorgos Evgeniadis
    - Nikos Xirouchakis
    - Nikos Nikolaou
Technical University of Crete
Department of Electronic & Computer Engineering

Annual Activity Report

For the period: Sep. 1, 2010 to Aug. 31, 2011

Name: Nikos Sidiropoulos
Rank: Professor
Years in rank: 9+1/2
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught
  - Introduction to Optimization (Fall 2010)
  - Statistical Signal Processing for Communications (Spring 2011)

- Graduate courses taught
  - Convex Optimization (Spring 2011)

- Curriculum & course development
  - Introduction to Optimization (new senior elective - Fall 2010)

B – Publications

- Publications in refereed journals
  - Submitted
  - Published


- Publications in refereed conferences
  - Submitted:
  - Accepted: same as published (see below)
  - Published

C – Awards & Distinctions


D – Funded Projects

- Current projects:
E – Professional service

- Associate Editor duties
  - Member of the Editorial Board, *IEEE Signal Processing Magazine* (Jan. 2009 -)
  - Associate Editor, Elsevier *Signal Processing* (Jan. 2009 -)
  - Area Editor: Signal Processing for Communications, Signal Processing e-Reference (Elsevier)

- Society Technical Committee duties

- Conference Technical Program Committee service
  - IEEE ICASSP 2011
  - IEEE CAMSAP 2011

- Conference Organization (specify role)
  - Tutorials and student paper awards chair for IEEE ICASSP 2011 – Prague
  - Publicity chair for IEEE ICASSP 2015 - Australia

- Reviewing activities
  - Regular reviewer for *IEEE Trans. on Signal Processing, IEEE Trans. on Wireless Communications.*

F – Service to the Department and the School

- Departmental responsibilities
  - Laboratory Director, Telecommunications Lab, Department of Electronic and Computer engineering, Technical University of Crete.

- School-level responsibilities
  - Associate Director and Member of the Board, Telecommunication Systems Institute, Technical University of Crete.

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - Evaggelia Matskani (Ph.D), matskani@telecom.tuc.gr
- Evaggelos Papalexakis (M.Sc.), vag_papalex@yahoo.gr
  Year of initial enrollment in program: 2010.

  - PhD. And M.Sc. degrees awarded
    - Evaggelos Papalexakis (M.Sc.), July 2011.