Annual Activity Report

For the period Sep. 1, 2011 - Aug. 31, 2012

Chania, Crete

Nov. 1, 2012
Computer Science Division

Faculty Members:

- Georgios Chalkiadakis, Assistant Professor
- Stavros Christodoulakis, Professor
- Antonios Deligiannakis, Assistant Professor
- Minos Garofalakis, Professor
- Michail G. Lagoudakis, Assistant Professor (tenured)
- Katerina Mania, Assistant Professor (tenured)
- Euripides G. M. Petrakis, Associate Professor
- Vasilis Samoladas, Assistant Professor (tenured)
Technical University of Crete
Department of Electronic & Computer Engineering

Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: Georgios Chalkiadakis
Rank: Assistant Professor
Years in rank: ½
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Intelligent Systems Laboratory

A – Teaching

- Undergraduate courses taught
  - COMP-201 Design and Development of Information Systems [Winter 2011]
  - COMP-517 Multiagent Systems [Spring 2012]

- Graduate courses taught
  - COMP-606 Multiagent Systems [Spring 2012]
  - Note: this is not a cross-listed course, but a distinct graduate-level course

- Curriculum & course development
  - New courses / labs developed
    - COMP-606 Multiagent Systems [Spring 2012]
    - COMP-201 Design and Development of Information Systems [Winter 2011]
    - Note: though this was a pre-existing course (under the name Object-Oriented Programming), its structure and material was significantly modified

  - Lecture notes / slides developed
    - For the courses I taught.
B – Publications

- **Books**
  Published:

- **Publications in refereed journals**
  Published:

- **Publications in refereed conferences**
  Published (full papers):
    - A preliminary version of this paper was also accepted as a short article (extended abstract) in AAMAS-2012.

C – Awards & Distinctions

1. Best Student Paper Award at PAIS-2012 (Prestigious Applications of Intelligent Systems track ECAI-2012/PAIS-2012, Montpellier, France, August 2012):
   - Athanasios Aris Panagopoulos, Georgios Chalkiadakis, and Eftichios Koutroulis: Predicting the Power Output of Distributed Renewable Energy Resources within a Broad Geographical Region.

E – Professional service

- Conference Technical Program Committee service
  - Program Committee member: the 11th International Conference on Autonomous Agents and Multiagent Systems, Valencia, Spain, June 2012 (AAMAS-2012)
  - Program Committee member: the 3rd International Conference on Agents and Artificial Intelligence, Rome, Italy, January 2011 (ICAART-2011)
  - International workshops: CoopMAS2012, MSDM2012

- Conference Organization (specify role)
  - Tutorial Speaker: AAMAS-2012 (Valencia, Spain) June 2012

- Reviewing activities
  - Reviewer for the conferences and workshops I was a Program Committee member at (mentioned above)
  - Reviewer for the “International Journal on Artificial Intelligence Tools” (IJAIT)
  - Reviewer for the “Advances in Artificial Intelligence” (AAI) journal
  - Reviewer for the “Journal of Autonomous Agents and Multiagent Systems” (JAAMAS)

G – Advising

- Graduate students supervised
  - MSc theses in progress (supervisor)
    - Charilaos Akasiadis: interested in various aspects of AI, and in particular in intelligent agent technologies for the Smart Grid
    - Konstantinos Babas (MSc student): interested mainly in research in large multiagent domains, and also in information systems and software customization
    - Aris Kidonakis (MSc student): interested in applying multiagent systems technologies in social networks
• Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    ▪ Thanos Panagopoulos: works on applying AI techniques in the Smart Grid domain
      • already published a paper in an international conference (PAIS-2012, which was awarded the Best Student Paper Award – see above)
    ▪ Georgios Kastrinakis: works on team formation and learning in the Fantasy Football application domain
    ▪ Orfeas Romaidis: works on employing reinforcement learning techniques for optimal sun-tracking
    ▪ Dimosthenis Skipetaris: works on developing basic and advanced infrastructure for the operation of Virtual Power Plants, and the validation of various multiagent systems techniques in such environments
    ▪ Joseph Bitzanakis: works on developing and verifying the applicability of various pricing mechanisms and algorithms for Virtual Power Plants
    ▪ Juliana Peres Hernandez Sanches: works on the design and implementation of a Game Theory applications toolkit for handheld devices

Other Activities

Georgios led a group of students as the manager of the “TUCTAC” Trading Agents Competition Ad Auctions team, which represented our institution at the TAC/Ad Auctions 2012 competition. TUCTAC qualified for the competition finals, which were held in Valencia, Spain, during the 2012 International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2012). “TUCTAC” eventually placed 6th in the competition (among 8 final participants). You can find more information on “TUCTAC” at http://intellix.intelligence.tuc.gr/tuctac/index.html.
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: Stavros Christodoulakis
Rank: Professor
Years in rank: 23
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Distributed Multimedia Information Systems & Applications Lab

A – Teaching

- Undergraduate courses taught
  - COMP 302: Data Bases (mandatory)
  - AIS 412: Human Computer Interaction
  - AIS 512: Design Development and management of Web Services

- Graduate courses taught
  - AIS 609: Human Computer Interaction (Offered jointly with AIS 412)
  - AIS 604: Design Development and management of Web Services (Offered jointly with AIS 512)

B – Publications

Conference Publications


D – Funded Projects

- Projects running:

- Project proposals submitted:
  o Open Discovery Space: A Socially powered and Multilingual Open learning Infrastructure to Boost the Adoption of eLearning Resources, EU Project, 2012-2015
  o Alice: Adult’s Learning for Intergenerational Learning Experience, EU project, 2011-2013

F – Service to the Department and the School

- Departmental responsibilities
  o Graduate Committee ECE.
  o Lab Director ECE (MUSIC).

- School – level responsibilities
  o Scientific Board, Institute of Telecommunications, TUC.
G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Makris Konstantinos
    - Skevakis Giannis
    - Christoulakis Marios (MSc)
    - Stylianakis Giorgos (MSc)
    - Pitsiladis Andreas (MSc)
    - Kalokyri Varvara (MSc)
    - Trohatou Ioanna (MSc)
    - Arapi Xenia (PhD)

- Undergraduate students supervised
  - Diploma theses in progress
    - Troulitakis Apostolos

  - Diploma theses completed (supervisor)
    - Skevakis Ioannis
    - Kalokiri Varvara
    - Mathioudakis Theodoros
    - Kalabratsidou Vilelmini
    - Kolokotronis Emmanouil
Annual Activity Report
For the period: September 1, 2011 to August 31, 2012

Name: Antonios Deligiannakis
Rank: Assistant Professor
Years in rank: 4 ½
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Software Technology and Network Applications (Softnet) Lab

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)

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

  o Accepted:

  o Published:
D – Funded Projects

- Current projects:
  - [2012 - 2015] «ΕΙΚΟΣ»: Θεωρητική και αλγοριθμική θεμελίωση για Προσωποκεντρικά Συνεργατικά Πληροφοριακά Συστήματα. Ρόλος: Συνεργάτης

- Project proposals submitted:

E – Professional service

- Conference Technical Program Committee service
  - VLDB
  - IEEE ICDE
  - CIKM
    - International Conference on Advanced Geographic Information Systems, Applications, and Services (GEOProcessing 2012)
- Conference Organization (specify role)
- Reviewing activities
  - VLDB Journal

F – Service to the Department and the School

- Departmental responsibilities
  - Consultant in undergraduate studies (2nd semester courses).
- School-level responsibilities
  - Department’s representative to the synglitos since September 2011.

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - Stelios Mamas
    - Yannis Flouris
    - Konstantinos Tsakonas
    - Stergios Charalambopoulos
    - Antonios Igglezakis
    - Sabbas Bourdakis
• Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    ▪ Yannis Papadakis
    ▪ Yannis Xarxaros
    ▪ Evina Zografou
    ▪ Emmanouil Vogiatzis
    ▪ Soylas Eleftherios
    ▪ Kostas Zarifis
    ▪ Marina Mavrikoy
  o Diploma theses completed (supervisor)
    ▪ Antonios Igglezakis
    ▪ Sabbas Bourdakis
    ▪ Smalis Sklavos
    ▪ Giorgo Palolli
    ▪ Sofia Georgiakaki
    ▪ Dionysios Kalogiropoulos
    ▪ Pougardis Antonios
    ▪ Christina Christodoulaki
Name: Minos Garofalakis
Rank: Professor
Years in rank: 4
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Software Technology and Network Applications (Softnet) Lab

A – Teaching

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

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

B – Publications

- Publications in refereed journals
  - Published:

- Publications in refereed conferences
  - Published:
    - Odysseas Papapetrou, Minos Garofalakis, and Antonios Deligiannakis. "Sketch-based Querying of Distributed Sliding-Window Data Streams", 


- Patents

C – Awards & Distinctions

- Elected ACM Distinguished Scientist (2011)

D – Funded Projects

- Current projects:
  - FP7-ICT-2009-FET Open Collaborative STREP Project: “LIFT – Using Local Inference in Massively Distributed Systems”
    Total funding: 2.5Me, TUC budget: 482Ke
    Role: Principal Investigator for TUC
  - FP7-PEOPLE-2009-RG (Marie-Curie International Reintegration Grant) PIRG05-GA-2009-249217
    “HeisenData: Towards a Next-Generation Uncertain-Data Management System”
    Role: Fellow & Scientist-in-Charge. (Total funding: 100Ke)
E – Professional service

- Associate Editor duties
  - Foundations and Trends in Databases: Editorial Board Member (2006 -- present)
  - Statistical Analysis and Data Mining (SAM): Associate Editor (2010 -- present)
  - Knowledge and Information Systems: An International Journal (KAIS): Editorial Board Member (2010 -- present)

- Conference Technical Program Committee service

- Conference Organization (specify role)
  - 2012 ACM SIGMOD International Conference on Management of Data (SIGMOD’2012), Scottsdale, Arizona: PC Group Leader
  - 28th IEEE International Conference on Data Engineering (ICDE’2012), Washington, DC: Area PC Vice-Chair (Uncertain and Probabilistic Data) and Best Paper Award Chair
  - 2012 ACM International Conference on Information and Knowledge Management (CIKM’2012), Maui, Hawaii: Senior PC Member (Database Track & Knowledge Management Track)
  - 2012 IEEE International Conference on Data Mining (ICDM’2012), Brussels, Belgium: PC Vice-Chair
  - 11th Hellenic Data Management Symposium (HDMS’2012), Chania, Greece: General Chair

F – Service to the Department and the School

- Departmental responsibilities
  - ECE Department Chair

G – Advising

Undergraduate students supervised

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Kostas Athanasoglou (MSc)
    - Vazaios Evangelos (MSc)

  - Ph.D. and M.Sc. Degrees (committee member)
    - Michail Kounelakis (PhD, TUC)
    - Sotirios Batsakis (PhD, TUC)
• Iris Miliaraki (PhD, U of Athens)
• Kostas Tzoumas (PhD, Aalborg U)

• Undergraduate students supervised
  
  o Diploma theses in progress
    ▪ Ioakeim Perros
    ▪ Vasiliki Prokopi
    ▪ Lefteris Soulsas
    ▪ Georgios Komninos

  o Diploma theses completed (supervisor)
    ▪ Stylianos Papagrifiou
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: Michail G. Lagoudakis
Rank: Assistant Professor (tenured)
Years in rank: 7
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Intelligent Systems Laboratory

A – Teaching

- Undergraduate courses taught
  - COMP 513 – Autonomous Agents [elective] (Fall 2011)
  - COMP 417 – Artificial Intelligence [elective] (Spring 2012)

- Graduate courses taught

- Labs taught
  - COMP 513 – Autonomous Agents Laboratory (Fall 2011)

- Curriculum & course development
  - New courses / labs developed
    - Added new laboratory exercises to Autonomous Agents
  - Lecture notes / slides developed
    - Updated lecture slides for Theory of Computation
    - Updated lecture slides for Autonomous Agents
    - Updated lecture slides for Artificial Intelligence

B – Publications

- Publications in refereed conferences
  - Published:

C – Awards & Distinctions

- Invited Speaker
  - “RoboCup: A Challenge Problem for Artificial Intelligence”, Keynote Talk, 5th Conference of ECE Students (SFHMMY 5), Xanthi, Greece, April 2012.

D – Funded Projects

- Current projects:

- Project proposals submitted:

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
- Conference Technical Program Committee service
  - *Intl Conf on Pattern Recognition Applications and Methods 2012*
  - *Intl Conf on Autonomous Agents and Multiagent Systems (AAMAS 2012)*
  - *AAMAS Workshop on Multi-Agent Sequential Decision Making 2012*
  - *16th International RoboCup Symposium (RCS 2012)*
  - *IEEE Intl Conf on Intelligent Robots and Systems (IROS 2012)*
  - *29th International Conference on Machine Learning (ICML 2012)*
  - *10th European Workshop on Reinforcement Learning (EWRL ’12)*
- Reviewing activities
  - *Proposal Reviewer, Swiss National Science Foundation (FNSF)*
  - *Proposal Reviewer, German-Israeli Foundation for Scientific Research & Development*
  - *Reviewer, Journal of Intelligent and Robotic Systems (JINT)*
F – Service to the Department and the School

- Departmental responsibilities
  - Editor, Undergraduate Program Guide (Greek and English)
- School-level responsibilities
  - Departmental Representative, TUC Library Committee

G – Advising

- Graduate students
  - Ph.D and M.Sc. theses completed (supervisor)
  - Ph.D. and M.Sc. theses in progress (supervisor)
    2. Eleftherios Chatzizisis (M.Sc. program), “Coordinated Action and Learning in RoboCup”, Enrollment: 2009
  - Ph.D and M.Sc. theses completed (committee member)
- Undergraduate students
  - Diploma theses completed (supervisor)
    1. Emmanuil Orfanoudakis, “Reliable Object Recognition for the RoboCup Domain”
    3. Astero-Dimitra Tzanetatou, “Interleaving of Motion Skills for Humanoid Robots”
    4. Iris Kyranou, “Path Planning for NAO Robots using an Egocentric Polar Occupancy Map”
    5. Nikolaos Kofinas, “Forward and Inverse Kinematics for the NAO Humanoid Robot”
  - Diploma theses in progress (supervisor)
5. Maria Karamitrou, “Local and Global State Estimation and Representation for the RoboCup SPL League”
7. Stylianos Tsigdinos, “Systematic Search and Reinforcement Learning for the Board Game Backgammon”

- Diploma theses completed (committee member)
  2. Theodoros Mathioudakis, “Customization of Functionality and Mobile Support (Smartphones and Tablets) for TUC’s Educational Platform M.O.L.E (Multimedia Open Learning Environment)”
  3. Leonidas Partasas, “4D-Fluents Plug-In”
  6. Christina Christodoulakis, “A rich media mobile web application for visitors and the community of the Technical University of Crete”

- 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 2011-2012 consisted of five undergraduate ECE students working on their diploma theses.
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: Katerina Mania
Rank: Assistant Professor (tenured)
Years in rank: 7
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Distributed Multimedia Information Systems & Applications Lab

A – Teaching

- Undergraduate courses taught
  - PLH 101 – Introduction to Computers and Computer Science (Winter 2011)
  - On sabbatical March 2012-September 2012

- Graduate courses taught
  - On sabbatical March 2012-September 2012

- Curriculum & course development
  - Updated laboratory exercises, lecture material and slides for PLH 101

B – Publications

- Books
  - Accepted
• Publications in refereed journals
  o Submitted
  o Accepted
  o Published

• Publications in refereed conferences
  o Submitted
  o Published
  o Other
C – Awards & Distinctions

D – Funded Projects

- Current projects (at the Technical University of Crete, Greece):
  - ‘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, 2011-2013, Collaborators: Brighton and Sussex Medical School.

- Project proposals submitted as PI:
  - ‘Ανάδειξη της Επιρροής της Κλιματικής Αλλαγής στη Διαμόρφωση της Πρώιμης Πολιτιστικής Κληρονομιάς της Κρήτης, Λέσβου και Κύπρου με Τεχνολογίες Αιχμής’, INTERREG 2012.

E – Professional service

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

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

- Steering Committee

- Conference Technical Program Committee service - membership
  - International conference on Virtual Systems and Multimedia 2012, Italy
  - ACM Symposium on Applied Perception 2012, Los Angeles, USA.
  - International conference on Virtual Systems and Multimedia (VSMM) 2012.
- Eurographics Symposium on Rendering 2011 (EGSR), Prague.
- Computational Aesthetics 2011, 2012 sponsored by Eurographics, Canada.
- 3rd IEEE International Conference in Games and Virtual Worlds for Serious Applications 2011, Greece.
- 2nd IEEE International Conference in Games and Virtual Worlds for Serious Applications 2010, Portugal.

Workshop - Program Organization
- 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.

Reviewing activities
- Various international conferences and journals.

F – Service to the Department and the School

- Departmental responsibilities
  - Regular member of the Graduate Studies committee of ECE, 2011-2012.

G – Advising

- Active graduate students supervised
  - Graduate students completed (at the University of Sussex)
  - Graduate students completed (at the Technical University of Crete)
    - Giannis Christodoulou ‘A 3D Interactive Lighting System for fMRI Rendering Fidelity Experiments’ (M.Sc. candidate, year of enrollment Sept. 2008, defended February 2012)
  - 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)
    - Nick Zervoudakis ‘Perceptually motivated visualization schemes’(M.Sc. candidate, year of enrollment March 2010)
• Undergraduate students

  o Diploma theses supervised (completed)
    ▪ In sabbatical March 2012-September 2012

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

• Diploma theses (among others, committee member)
  ▪ In various committee memberships
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: Euripides G. M. Petrakis
Rank: Associate Professor
Years in rank: 10
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

- Labs taught
  - Multimedia Data Management
  - Computer Vision
  - Data Structure and File Structures

- Curriculum & course development
  - labs developed for all courses taught
  - slides developed/updated for all courses taught
B – Publications

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

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

- Books and edited book chapters
D – Funded Projects

- Current projects:
  - **e-TRAWELSPA**: “e- TRAINING FOR WELLNESS IN SPA SERVICES” (2012-2014)
    - **Funding Agency**: Education, Audiovisual and Culture Executive Agency, Lifelong Learning: Comenius, ICT and Languages
    - **Participants**: UNIVERSITATEA DIN PITEȘTI, UNIVERSITATEA DIN CRAIOVA, Telecommunications Inst. Of Crete (TSI), Burgas Free University, Institut für gesellschaftswissenschaftliche Forschung, Bildung und Information
    - **Co-Principal Investigator for TUC**: Euripides G.M. Petrakis
  - **MEDEVIPAS**: “Medical Devices Vigilance and Patient Safety” (2012-2015)
    - **Funding Agency**: THALIS, Greek GSRT
    - **Participants**: Univ. of Patras, TUC, National Technical University of Athens
    - **Principal Investigator for TUC**: Euripides G.M. Petrakis
  - **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
  - **RT3S**: Real Time Simulation for Safer Vascular Stenting (2011-2014)
    - **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**: Positive 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

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

E – Professional service

- Conference Technical Program Committee service
  - Program committee member and Session chair - session on Clinical Informatics, 15th International Symposium on Health Information Management Research (ISHMR 2011).

- Reviewing activities
  - In several Conferences & Journal in Information Systems, Semantic Web, Computer Vision.
F – Service to the Department and the School

- Departmental responsibilities
  - Laboratory Director

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
  - PhD. And M.Sc. degrees awarded
  - Post. Doct. Supervised
    - Sotirios Batsakis, Semantic Web.
    - Kleanthi Lakiotaki, Medical Information Systems, Recommender Systems.
    - Katerina Bei, Medical Information Systems.

- Undergraduate students supervised
  - Diploma theses in progress (supervisor):
    - 4 diploma theses, in progress.
  - Diploma theses completed (supervisor):
Name: Vasilis Samoladas
Rank: Assistant Professor (tenured)
Years in rank: 8
Full-time or part-time: Full-time
Division: Computer Science
Lab affiliation: Software Technology and Network Applications (Softnet) Lab

A – Teaching

- Undergraduate courses taught
  - PLH 301 Operating Systems, Fall 2011 (mandatory course).

- Graduate courses taught
  - PLH 616 Computational Geometry, Spring 2012.

- Labs taught
  - PLH 301 Operating Systems, Fall 2011 (mandatory course).

B – Publications

- Publications in refereed journals

- Publications in refereed conferences
C – Awards & Distinctions

D – Funded Projects

- Current projects:

E – Professional service

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

F – Service to the Department and the School

- TUC representative in EDET Open Source Initiative.

G – Advising

- Active graduate students supervised
  - M.Sc. theses in progress (supervisor)
    - 2 Students.

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - 6 Students.
Electronics and Computer Architecture Division

Faculty Members:

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

For the period: September 1, 2011 to August 31, 2012

Name: Costas Balas
Rank: Associate Professor
Years in rank: 10 ½
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Electronics Laboratory

A – Teaching

- Undergraduate courses taught
  - Electronics I (Fall 11)
  - Electronics I (Spring 12) – offered again, due to Department’s syllabus change
  - Biomedical Engineering (with Prof. M. Zervakis)

- Graduate courses taught
  - Advanced Topics & Applications in Electronic Imaging

- Labs taught
  - Electronics I

- Curriculum & course development
  - Lecture notes / slides developed
    - Lectures for the new Biomedical Engineering course

B – Publications

- Publications in refereed journals
  - Published:

- Publications in refereed conferences
  - Published:

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».

E – Professional service

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

F – Service to the Department and the School

- Departmental responsibilities
  - Member of 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)
• Undergraduate students supervised
  o Diploma theses in progress (supervisor)
    ▪ Abatzi Fani
    ▪ Rossos Christos
    ▪ Nikos Tsoulidis
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: Matthias Bucher
Rank: Assistant Professor (tenured)
Years in rank: 8 ½
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 2011)
  - ECE 311 – Electronics II (Spring 2012)

- Graduate courses taught
  - ECE 604 – Special Themes of Analog Integrated Circuit Design (Fall 2011)

- Labs taught
  - ECE 416 – Design of CMOS Analog Integrated Circuits (Fall 2011)
  - ECE 311 – Electronics II (Spring 2012)

B – Publications

- Publications in refereed journals
  - Submitted:


**Accepted:**


**Published:**


- **Publications in refereed conferences**


Workshop presentations


D – Funded Projects

Current projects:

• Development of Electronics Laboratory infrastructure:
  o Keithley SCS 4200 Semiconductor Characterization System, with 3 SMU, 3 PA.
  o Agilent 6651A, 50A, 8V high performance programmable DC power supply.
  o Picoprobe Model 40 GSG RF probes, 40 GHz.
  o Cadence IC & System software.
  o Agilent ADS and ICCAP software packages.

E – Professional service

• Conference Technical Programme Committee service
  ▪ TPC member, 2nd Panhellenic Conference on Electronics and Telecommunications (PACET) 2012.

• Reviewing activities
  ▪ IEEE Trans. on Electron Devices
  ▪ Solid-State Electronics
  ▪ IET Journal on Circuits, Devices and Systems

F – Service to the Department and the School

• Departmental responsibilities
  o Director, Electronics Laboratory (~ 1/2012).
  o Member, Postgraduate Studies committee.
  o Member, Examinatory committee for the admission of undergraduate students.

G – Advising

• Graduate students supervised
  o 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. students supervised (supervisor):


Undergraduate students supervised

- Diploma theses completed (supervisor):
  - Apostolos Spanos, RF Noise in advanced CMOS, June 2012.
  - George Smaragdos, Design of integrated filters based on current-mode OPAMPs, May 2012.

- Diploma students (supervisor):
  - Yannis Deriziotis, Design of a CMOS VCO at 5-6 GHz.
  - Vassilis Psaltopoulos, 1/f noise modeling in advanced CMOS.
  - George Gyroukis, Compact modeling and of nano-scale MOSFETs.
  - Xenofon Manarolis, Coding of compact HV-MOSFET model in a SPICE circuit simulator.
  - Stelios Anthoulis, System for the implementation of compact MOSFET models in SPICE circuit simulators.
  - Konstantinos Fellas, Study of low-frequency noise in HVMOSFETs.
  - Dimitrios Kokkonas, Experimental and analytical study of scaling in advanced CMOS technologies.
  - Dimitris Sideris, Characterization and compact modeling of SiC JFET.
  - Nikos Pappas, TCAD investigation of analog properties of multi-gate CMOS transistors.
  - Nicolas Gegios, RF CMOS modeling.
Technical University of Crete  
Department of Electronic & Computer Engineering  

Annual Activity Report  
For the period: September 1, 2011 to August 31, 2012

Name: Apostolos Dollas  
Rank: Professor  
Years in rank: 11  
Full-time or part-time: Full-time  
Division: Electronics and Computer Architecture  
Lab affiliation: Microprocessor and Hardware Laboratory

A – Teaching

- Undergraduate courses taught
  - HRY 101 - Logic Design (mandatory)
  - HRY 203 - Advanced Logic Design (mandatory)
  - HRY 591 – Special Topics on Reconfigurable Computing (elective, cross-listed with HRY – 631)

- Graduate courses taught
  - HRY 631 – Special Topics on Reconfigurable Computing

- Labs taught
  - Supervised the labs of HRY 101
  - Supervised the labs of HRY 203, which I had completely re-written three 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 completely re-written from the previous year to discourage usage of existing codes.

- Curriculum & course development
  - 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
  - Published

- Publications in refereed conferences
  - Accepted
  - Published (all papers fully refereed)

C – Awards & Distinctions

- 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), Sept 5-7, 2011.

D – Funded Projects

- Current projects:
  - 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).
  - Project “ROTA- Design and Development of a Novel System for the Telemanagement 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).
  - 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).
  - Participation in several EU and GSRT funded projects as Workpackage Leader, Scientific Collaborator, etc. (SAFEMETAL, SMART, FASTCUDA, MERIT etc.)

E – Professional service

- Conference Technical Program Committee service
  - Program Committee Member 20th IEEE Symposium on Field Programmable Custom Computing Machines (FCCM), April 29-May 1, Toronto, Canada.
  - General Co-Chairman and Program Committee Member, IEEE/ACM 21st 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), New Delhi, India, December 12-14, 2011.
- Member of the recommendation committee and the election board towards a faculty election at the University of Ioannina, September, 2011.
- External reviewer and examiner in a Ph.D. dissertation defense (Dr. Michailov) at the Tallinn University of Technology, Tallinn, Estonia, January 20, 2012.
- Member of the Examination Committee (Dr. G. Giannakas), University of Thessaly, March, 9, 2012.
In all the program committees in which I participated, I contributed with reviews of papers (as many as 8 full paper reviews in a single conference), the selection process, organizational issues, and when possible, attendance of the PC meeting. Because my field is rapidly changing, international conferences reflect the state of the art much more than archival journals and I have deliberately given the weight of my reviewing and committee activity on such conferences.

- **Reviewing activities**
  - Several international conferences, including all in which I participate in the program committee and journals, plus international conferences such 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**
  - Faculty Advisor to the 1st semester students.
  - Member, Undergraduate Studies Committee.
  - Member of the Student Placement Committee, supervising the examination in the subject of Logic Design for graduates from other Departments who want to enroll at ECE.
  - Member of faculty recommendation committees in faculty elections, member of the election board and participation in the election process of several faculty elections, including elections towards tenure and elevation to Full Professor.

- **School-level responsibilities**
  - 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).
  - 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.
  - 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.

**G – Advising**

- **Active graduate students supervised**
  - Ph.D. and M.Sc. students supervised (advisor, completed)
    - Meidanis, Dimitrios (PhD)
    - Papademetriou, Kyprianos (PhD) (co-supervisor w/ Prof. K. Kalaitzakis)
    - Malakonakis, Pavlos (MS)
    - Lakka, Matina (MS)
  - Ph.D. and M.Sc. students supervised (advisor, in progress)
    - Chrysos, Grigoris (PhD)
    - Efstathiou, Dionissios (MS)
    - Smerdis, Miltiadis (MS)
    - Ilias, Anargyros (MS)
    - Nikoloudakis, George (MS)
- PhD. And M.Sc. degrees awarded (committee member)
  - Mavroidis, Ioannis (PhD)
  - Dagritzikos, Panagiotis (MS)

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

- Undergraduate students supervised
  - Diploma theses completed (supervisor)
    - Apostolakis, Stavros
    - Noulas, Georgios
    - Thomas, Sotirios
    - Vastarouchas, Georgios

  - Diploma theses in progress (supervisor)
    - Kouinis, Konstantinos
    - Koukousoulas, Pantelis
    - Maragos, Konstantinos
    - Rousopoulos, Christos

  - Diploma theses in progress (committee member)
    - (Several, in progress)

  - Diploma theses completed (committee member)
    - Miteloudi, Konstantina
    - Tsamasiotis, D.
Name: Kostas Kalaitzakis
Rank: Professor
Years in rank: 9
Full-time or part-time: Full-time
Division: Electronics and Computer Architecture
Lab affiliation: Electric Circuits and Renewable Energy Sources Laboratory

A – Teaching

- Undergraduate courses taught
  o HRY 414 - Electric Measurements and Sensors (8th semester)
  o HRY 202 – Electric Circuits Analysis (3rd semester)

- Graduate courses taught
  o HRY 602 – Special topics on Electric Measurement Systems

- Labs taught
  o HRY 414 - Electric Measurements and Sensors (8th semester)
  o HRY 202 – Electric Circuits Analysis (3rd semester)

B – Publications

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

D – Funded Projects

• Current projects:
  o "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.
  o “Siting study for the sustainable establishment of wind farms in the region of Crete”, contract between Region of Crete and Technical Univ. of Crete, 2012-2013.
  o “GREEN@Hospital: Web-based energy management system for the optimization of the energy consumption in hospitals”, funded by the E.U., 2012-2015.

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
  o PhD. And M.Sc. degrees awarded
    ▪ V. Bakirtzoglou, year of initial enrollment in M.Sc. program: 2009.
- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - Various theses under supervision.
  - Diploma theses completed (supervisor)
    - 4 Diploma Theses completed as main supervisor.
Technical University of Crete  
Department of Electronic & Computer Engineering  

Annual Activity Report  
For the period: September 1, 2011 to August 31, 2012

Name: Eftichios Koutroulis  
Rank: Assistant Professor  
Years in rank: 1  
Full-time or part-time: Full-time  
Division: Electronics and Computer Architecture  
Lab affiliation: Electric Circuits and Renewable Energy Sources Laboratory

A – Teaching

- Undergraduate courses taught
  - ACE 511 - VLSI and ASIC System Design (Fall semester 2011)
  - ACE 102 - Basic Circuit Theory (Spring semester 2012)

- Graduate courses taught
  - ACE 635 – Special Topics on Electronic Energy Management Systems (Spring semester 2012)

- Labs taught
  - ACE 511 - VLSI and ASIC System Design (Fall semester 2011)
  - ACE 102 - Basic Circuit Theory (Spring semester 2012)

- Curriculum & course development
  - New courses / labs developed
    - ACE 635 – Special Topics on Electronic Energy Management Systems (Spring semester 2012)
  - Lecture notes / slides developed
    - ACE 511 - VLSI and ASIC System Design (Fall semester 2011): updated the existing slides (440 slides)
    - ACE 102 - Basic Circuit Theory (Spring semester 2012): updated the existing slides (442 slides)
B – Publications

• Publications in refereed journals
  o Submitted:
  o Accepted:
  o Published:

• Publications in refereed conferences
  o Submitted:

**Accepted:**


**Published:**


**C – Awards & Distinctions**

- Best student paper award at the 7th Conference on Prestigious Applications of Artificial Intelligence (2012), for the paper: A.-A. Panagopoulos, G. Chalkiadakis, E. Koutroulis, “Predicting the Power Output of Distributed Renewable Energy Resources within a Broad Geographical Region”.

- Guest Lecture on “Design Optimization of Transformerless PV Inverters”, in the Department of Energy Technology, Aalborg University, Denmark, 24/8/2012.


**D – Funded Projects**

- Project proposals submitted:
  - *FP7 ICT call*
  - *Interreg Greece-Cyprus call*
E – Professional service

- Associate Editor duties:
  - Member of the Editorial Board of the “Renewable Energy” journal (April 2011-present).
- Conference Organization (specify role)
  - Session Chair at the 2012 3rd IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG).
- Reviewing activities
  - Reviewed 51 journal papers (including revisions) and 11 conference digests and full papers:
    - IEEE Transactions on Power Electronics
    - IEEE Journal of Photovoltaics
    - IEEE Transactions on Sustainable Energy
    - IEEE Transactions on Industrial Electronics
    - IEEE Transactions on Instrumentation & Measurement
    - IET Power Electronics
    - IET Renewable Power Generation
    - Electronics Letters
    - Renewable Energy
    - Energy
    - Measurement
    - Applied Energy
    - International Journal of Electrical Power & Energy Systems

F – Service to the Department and the School

- Departmental coordinator for the ERASMUS program.
- Editing of the Graduate Program Guide (in Greek).

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - Stefanos Saridakis (M.Sc. Student)
    - Yannis Mandourarakis (M.Sc. Student)
    - Dimitris Christeas (M.Sc. Student)
  - PhD. And M.Sc. degrees awarded
    - Matina Lakka (M.Sc. degree, co-supervised with Prof. A. Dollas)
- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    1. Christos Koukouzas
    2. Nikos Petridis
    3. George Kimionis
    4. Nikos Vatsithianos
    5. Chris Constantopoulos
    6. Nikos Achilladelis
    7. Theodore Sotiris
    8. Nikos Fanioudakis
    9. Dimitris Zografos
   10. Alex Paraskeuas
   11. Charalambos Paravalos (co-supervised with Assistant Professor V. Samoladas)
   12. Lefteris Kyrousis
   13. Costas Dimitriadis
   14. Eleftherios Nikolakakis
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

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

A – Teaching

- Undergraduate courses taught
  - HRY 411 – Embedded Systems Design (Fall 2011)
  - HPY 302 – Computer Organization (Spring 2012)

- Graduate courses taught
  - HRY 611 – Design of Special Purpose Computer Architecture (Fall 2011)

- Labs taught
  - HRY 411 – Embedded Systems Design (Fall 2011)
  - HPY 302 – Computer Organization (Spring 2012)

- Curriculum & course development
  - New courses / labs developed
    - Course material and exercises/projects for programming and design of highly parallel systems for HRY611

B – Publications

- Publications in refereed conferences
  - Published
    - Maria Kalenderi, Dionisios N. Pnevmatikatos, Ioannis Papaefstathiou, Charalampos Manifavas, “Breaking the GSM A5/1 cryptography algorithm with rainbow tables and high-end FPGAS”, IEEE International Conference on Field Programmable Logic and Applications (FPL), 2012, Aug 29-21, Oslo, Norway.
Andreas Brokalakis, Ioannis Papaefstathiou, “Using hardware-based forward error correction to reduce the overall energy consumption of WSNs”, IEEE Wireless Communications and Networking Conference (WCNC), April 2012, Paris, France.


D – Funded Projects

- Current projects:

E – Professional service

- Conference Technical Program Committee service
  - IEEE FPL
  - IEEE ISWCS
  - IEEE ICEAC
  - IEEE ICNC
  - IEEE UCHPC
• Reviewing activities
  o Regular reviewer for *Elsevier Microprocessors and Microsystems Journal*,
  o Regular reviewer for *IEEE Transactions on Circuits and Systems for Video Technology*
  o Regular reviewer for *ACM Transactions on Reconfigurable Technology and Systems*
  o Regular reviewer for *IEEE Transactions on Parallel and Distributed Systems*
  o Regular Reviewer for *IEEE Design & Test*
  o Regular Reviewer for *IEEE Transactions on Circuits and Systems for Video Technology*

G – Advising

• Active graduate students supervised
  o M.Sc. Theses completed (supervisor)
    ▪ P. Dagritzikos, “Novel and highly efficient reconfigurable implementations of
data mining algorithms”.
  o Ph.D. and M.Sc. students supervised
    ▪ Kostas Fysarakis (Ph.D.), Year of initial enrollment in program: 2011
    ▪ George Hatzivasilis (Ph.D.), Year of initial enrollment in program: 2011
    ▪ Antonis Nikitakis (Ph.D.), Year of initial enrollment in program: 2008
    ▪ Panagiotis Karkazis, (M.Sc.), Year of initial enrollment in program: 2010.
    ▪ 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)
    ▪ A. Katsoulas, “Parallelizing Applications in Multi-core Architecture Systems with
      Emphasis on CUDA Architectures”.
    ▪ K. Miteloudi, “Hardware Architectures for Price Calculation of Financial
      Derivatives and Implementation in Reconfigurable Logic”.
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: Dionisios Pnevmatikatos
Rank: Professor
Years in rank: 3
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 2011)
  - HRY 415 – Computer Architecture (Spring 2012)

- Graduate courses taught
  - HRY 613 – Parallel and Distributed Computer Architecture (Spring 2012)

- Labs taught
  - HRY 201 – Digital Computers (Fall 2011)
  - HRY 415 – Computer Architecture (Spring 2012)
  - HRY 418 – Parallel and Distributed Computer Architecture (cross-listed with graduate HRY 613, Spring 2012)

- Curriculum & course development
  - New courses / labs developed
    - Parallel and Distributed Computer Architecture
  - Lecture notes / slides developed
    - Digital Computers (Update)
    - Computer Architecture (Update)
B – Publications

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

- Publications in refereed conferences
  - Submitted: those published/appeared (see below)
  - Accepted:
  - 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.
    - George Kornaros, Dionisios N. Pnevmatikatos: Real-Time Monitoring of Multicore SoCs through Specialized Hardware Agents on NoC Network Interfaces. IPDPS Workshops, May 2012: 248-255.
    - Maria Kalenderi, Dionisios N. Pnevmatikatos, Ioannis Papaefstathiou, Charalampos Manifavas: Breaking the GSM A5/1 cryptography algorithm with rainbow tables and high-end FPGAs. FPL August 2012: 747-753.

- Books and edited book chapters

D – Funded Projects

- Current projects:
  - Departmental Practical Training
  - Synergasia MERIT
  - FP7 FASTER
  - FP7 DESYRE
E – Professional service

- Associate Editor duties
  Guest Edit a Special Issue “Reconfiguration for improved parallel computation” for International Journal of Reconfigurable Computing (Hindawi)

- Conference Technical Program Committee service
  - International Conference on Field Programmable Logic and Applications (FPL) 2011
  - IEEE International Conference On Computer Design (ICCD), 2012
  - International Conference on Supercomputing (ICS), 2012
  - Design and Test Europe (DATE), Architecture and Microarchitecture Track, 2012
  - EuroPar 2012 Track co-chair
  - Annual IEEE/ACM International Symposium on Microarchitecture (MICRO), 2011

- Conference Organization (specify role)
  - Co-Chair Workshop on Reconfigurable Computing, 2012

- Reviewing activities
  - Journal Reviewer:
    - IEEE TVLSI
    - IEEE TC
    - IJPP
    - ETRI
  - Conference Reviewer:
    - HiPEAC Conference 2012
  - Workshop Technical Committee Member:
    - 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.
    - S. Koidis M.Sc.
    - Ch. Vatsolakis M.Sc.
  - PhD. And M.Sc. degrees awarded
    - Ioannis Mavroidis Ph.D.
- Undergraduate students supervised
  - Diploma theses completed (committee member)
    - Rousopoulou
    - Katsoulas
    - Apostolakis
    - Noulas
    - Miteloudi
    - Bastaroyxas
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: George Stavrakakis
Rank: Professor
Years in rank: 17
Full-time or part-time: Full-time
Division: Electronic and Computer Architecture
Lab affiliation: Electric Circuits and Renewable Energy Sources Laboratory

A – Teaching

- Undergraduate courses taught:
  NONE in ECE Dept.-TUC due to sabbatical leaving in the Faculty of Electrical Engineering, Technical University “Georghe Asachi”, Iasi-Romania.

- Graduate courses taught
  NONE for the same reason as above.

- Labs taught
  NONE for the same reason as above.

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

B – Publications

- Publications in refereed conferences
  o Submitted: 1
  o Accepted: 1
• **Publications in conferences on abstract review**
  o Submitted: 3
  o Accepted: 3
  o Published: 3 (see below)

• **Books and edited book chapters with referees:**

• **Patents: one in the national level (see below)**
  ▪ Έξυπνη μέθοδος και ολοκληρωμένη ηλεκτρονική διάταξη διαχείρισης πληροφοριών σε συστήματα εξασφάλισης εσωτερικής άνεσης με ταυτόχρονη ενεργειακή διαχείριση κτιρίων (OBI2004010045).

**C – Awards & Distinctions**

• Elevation to senior membership grades in Professional Societies, Fellowships, Visiting Professorships: Faculty of Electrical Engineering, Technical University “Georghe Asachi”, Iasi-Romania.

**D – Funded Projects**

**Current projects:**
- LIFE FOREST CITIES–Local Authorities’ Alliance for Forest Fire Prevention LIFE+, 1-1-2010 to 31-12-2012. Project site: www.forestcities.gr
-E-GRENSHIP, An integrated system for monitoring ship’s emissions and operating parameters with application to optimal management of the ship energy demands during operation, 2011-2014, General Secretary Research Technology - ΓΓΕΤ 09ΣΥΝ-51-871. Project site: www.egreenship.com

**E – Professional service**

- Society Technical Committee duties: International Committee of Electrical Machines- ICEM.
- Reviewing activities: in four international Journals
  - Permanent invited Reviewer of the Journal of Intelligent and Robotic Systems.
  - Permanent invited Reviewer of the IEEE Transactions on Energy Conversion.
  - Permanent invited Reviewer of the Electric Power Systems Research.
  - Reviewer on call basis International Journal of Distributed Sensor Networks.
- Participation in National Committees (e.g., ΕΔΕΤ) : “Permanent Committee of the Prefecture of Crete for the Energy Planning of Crete”.

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

- School-level responsibilities
  - Member of board of regents (Σύγκλητος)
  - ΕΛΚΕ
  - Institute
  - Other: member of the Technical Council of TUC

**G – Advising**

- Active graduate students supervised
  - Committee Member of PhD thesis already defended: 1
    Papadimitriou Kyprianos
  - PhD students supervised: 1
    Tripolitakis Evagelos
  - M.Sc Students supervised: 5
    Limneos Georgios
    Loukarakis Emmanouil
    Sytzanaki Athina
    Gobakis Konstantinos
    Panagiotidou Natalia
  - M.Sc. degrees awarded: 3
    Limneos Georgios
    Loukarakis Emmanouil
    Gobakis Konstantinos
  - Committee Member of M.Sc. degrees awarded except the above: 5
• Undergraduate students supervised
  o Diploma theses in progress (supervisor): 8
  o Diploma theses completed (supervisor): 4
  o Diploma theses in progress (committee member): 11
  o Diploma theses completed (committee member): 5
Telecommunications Division

Faculty Members:

- Aggelos Bletsas, Assistant Professor
- Vassilis Digalakis, Professor
- George Karystinos, Assistant Professor (tenured)
- Polychronis Koutsakis, Assistant Professor
- Athanasios Liavas, Professor
- Michail Paterakis, Professor
- Michail Zervakis, Professor
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: Aggelos Bletsas
Rank: Assistant Professor
Years in rank: 3
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught:
  TEL 303 Telecommunication Systems II.
  TEL 412 Analysis & Design (Synthesis) of Telecom Modules.

- Graduate courses taught:
  TEL 603 Detection & Estimation Theory (26 lectures-graduate course).
  TEL 613 Analysis & Design (Synthesis) of Telecom Modules (meets with TEL 412).
    - Labs taught
      TEL 412 Analysis & Design (Synthesis) of Telecom Modules.

B – Publications

- Publications in refereed journals
  - Published:

**Extended version of second best student paper award, IEEE RFID Technologies and Applications 2011.**


- **Publications in refereed conferences**
  - Published:
    
    
    
    J. Kimionis, **A. Bletsas**, A. G. Dimitriou and G. N. Karystinos, "Inventory Time Reduction in Gen2 with Single-Antenna Separation of FM0 RFID Signals", *IEEE International Conference on RFID-Technologies and Applications (RFID-TA)*, September 2011, Sitges, Spain. **Received 2nd best student paper award.**

- **Patents**
  - **GRANTED**
    

**C – Awards & Distinctions**

- **2nd Best Student Paper Award in IEEE RFID-TA 2011:**
  
• **2011 Best Diploma Thesis Award** from IEEE AES/VTS joint Greek Chapter for best 2009-2011 Diploma Thesis among all Greek Universities in the topic of “Advanced Wireless Systems” awarded to my student E. Kampianakis (see below).

• **Invited Talk:**
  "Demonstration of a Backscatter Sensor Network with Commodity SDR Reader", RFIDs and RFID-enabled sensors: novel applications, energy harvesting and integration challenges Short Course, European Microwave Conference (EuMC), Manchester UK, October 2011.

D – Funded Projects

• Current projects:
  3 Projects funded through GSRT Thalis.

• Project proposals accepted
  1 Proposal to GSRT Synergasia (as PI).
  1 Proposal to Cyprus RPF.

E – Professional service

• Associate Editor duties:
  IEEE Wireless Communication Letters.

• Conference Technical Program Committee (TPC) service:

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

F – Service to the Department and the School

• Presentations of the Department to several classes of Elementary and High school students (with Prof. Lagoudakis).

G – Advising

• Active graduate students supervised
  o M.Sc. students supervised
    ▪ G. Sklivanitis, “Disruptive technologies for Distributed Radio”.
    ▪ E. Kampianakis, “Sensors and Testbed for Backscatter Sensor Networks”.
    ▪ J. Kimionis, “Bistatic Backscatter Radio for Backscatter Sensor Networks”.
• Undergraduate students supervised
  o Diploma theses completed (supervisor)
    ▪ Dimitris Dilis, “Introduction to Rooftop Networking”.
    ▪ Eleftherios Kampianakis, “Custom Over The Air Programmable Embedded Radios”.
  
o Diploma theses in progress (supervisor)
    ▪ Manolis Alibertis.
    ▪ Nikos Agadakos.
    ▪ Efthimios Vlachos.
    ▪ Nikos Fassarakis-Hilliard.
    ▪ Konstadinos Alexandris.
    ▪ Panos Alevizos.
    ▪ Manos Papagiannakis.
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

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

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
  - Published
D – Funding

- Proposals submitted as Coordinator:

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
  - Alex Georgogiannis, MSc

- Undergraduate students defended
  - G. Fragiadakis, “Speaker Segmentation & Clustering on Greek Broadcast News”.

- Undergraduate students supervised
  - Various students.
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

Name: George Karystinos
Rank: Assistant Professor
Years in rank: 6
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Telecommunications Laboratory

A – Teaching

- Undergraduate courses taught
  - TEL 201 – Signals and Systems (Fall 2011)

- Labs taught
  - TEL 201 – Signals and Systems Lab (Fall 2011)

B – Publications

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

• Books and edited book chapters

• Patents

C – Awards & Distinctions

• IEEE RFID-TA 2011 Second Best Student Paper Award (IEEE Intern. Conf. RFID-Tech Applic.) for paper “Inventory time reduction in Gen2 with single-antenna separation of FM0 RFID signals” by J. Kimionis, A. Bletsas, A. G. Dimitriou, and G. N. Karystinos.

D – Funded Projects

• Current projects
  o PI (%effort: 33%), “DISCO - Distributed wireless communications,” Thales Program, Ministry of Education, Greece, Jan. 1, 2012 - Sept. 30, 2015, 600.000 EUR.
  o Participant, “SWINCOM - Secure wireless nonlinear communications at the physical layer,” Thales Program, Ministry of Education, Greece, led by Prof. N. Kalouptsidis.
E – Professional service

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

- Reviewing activities
  - Reviewer for journals
    - IEEE Transactions on Communications
    - IEEE Transactions on Wireless Communications
    - IEEE Transactions on Signal Processing
    - IEEE Communications Letters
    - IEEE Wireless Communications Letters
    - IEEE Signal Processing Letters
    - Entropy (MDPI)
  - Reviewer for conferences
    - IEEE GLOBECOM 2012
    - IEEE ICC 2012

F – Service to the Department and the School

- Departmental responsibilities
- School-level responsibilities

G – Advising

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

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - 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: September 1, 2011 to August 31, 2012

Name: Polychronis Koutsakis
Rank: Assistant Professor
Years in rank: 4
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Information and Computer Networks Laboratory

A – Teaching

- Undergraduate courses taught
  - Computer Networks I

- Graduate courses taught
  - Communication Networks Protocols

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

B – Publications

- Publications in refereed journals
  - Submitted

- Published

- Publications in refereed conferences
  - Submitted
  - Accepted

- Patents

D – Funded Projects

- Current projects:

- Project proposals submitted:
  - ARISTEIA II (Principal Investigator)

E – Professional service

- Associate Editor duties
  - IEEE Communication Surveys & Tutorials Journal
  - Computer Communications Journal (Elsevier)
• Society Technical Committee duties
  o Voting Member of the IEEE Multimedia Communications Technical Committee (MMTC)
  o Member of the IEEE MMTC "Green Multimedia Communications" Interest Group
  o Member of the IEEE MMTC "QoE for Multimedia Communications" Interest Group
  o Member of the IEEE MMTC "Wireless Technology for Multimedia Communications" Interest Group

• Conference Technical Program Committee service
  o IEEE Conference on Local Computer Networks (LCN) 2012
  o IEEE ICC 2012 – Wireless Networking Symposium
  o IEEE ICC 2012 Ad-Hoc and Sensor Networking Symposium
  o IEEE ICC 2012 Symposium on Selected Areas in Communications (SAC), Satellite and Space Communications (SSC) Track
  o IEEE GLOBECOM 2012 Ad-Hoc and Sensor Networking Symposium
  o IEEE WCNC 2012 – Mobile and Wireless Networks Track
  o IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM 2012)
  o IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob) 2012
  o IEEE CCNC 2012 – Work in Progress Track
  o IEEE International Conference on Computing, Networking and Communications (ICNC) 2012 – Green Computing, Networking and Communications Symposium
  o IEEE International Conference on Multimedia and Expo (ICME) 2012
  o IEEE PIMRC 2012 – Mobile and Wireless Networks Track
  o ACM/IEEE International Conference on Connected Vehicles and Expo (ICCVE 2012)
  o International Conference on Networks (ICN) 2012
  o Queen's Biennial Symposium on Communications (QBSC) 2012

• Conference Organization (specify role)
  o Workshops’ Co-Chair for the 14th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), June 2013, Madrid, Spain

• Reviewing activities
  o IEEE Transactions on Mobile Computing
  o IEEE Transactions on Multimedia
  o IEEE Transactions on Broadcasting
  o IEEE Transactions on Circuits and Systems for Video Technology
  o IEEE Communications Letters
F – Service to the Department and the School

- Departmental responsibilities
  - Substitute Member of the Undergraduate Curriculum Committee of the ECE Department, Technical University of Crete
  - Substitute Member of the Graduate Curriculum Committee of the ECE Department, Technical University of Crete

- School-level responsibilities
  - Substitute Member of the Senate of the Technical University of Crete

G – Advising

- Active graduate students supervised
  - Ph.D. and M.Sc. students supervised
    - Konstantina Dimitriou (MSc student)
    - Dimitra Vasileiadou (MSc student)

- Undergraduate students supervised
  - Diploma theses in progress (supervisor). Students’ Names:
    - Evangelos Maratsolas
    - Charis Stamos
    - Manolis Skevakis
    - Giorgos-Andreas Liagouras
    - Georgia Athanasopoulou
    - Greta Tzamicha
    - Orestis-Stavros Loizides

  - Student with Diploma theses completed (supervisor)
    - Dimitra Vasileiadou
    - Theodora Kouskouli
    - Thomas Hall
    - Aikaterini Vlachaki
    - Irini Spanou
    - Georgia Koutsandria
Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

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

A – Teaching

- Undergraduate courses taught
  - Telecommunications Systems I
  - Introduction to Optimization (X-listed with Convex Optimization)

- Graduate courses taught
  - Convex Optimization
  - Special Topics in Convex Optimization

- Labs taught
  - Telecommunications Systems I
  - Convex Optimization
  - Special Topics in Convex Optimization

- Curriculum & course development
  - New courses / labs developed
    1. Introduction to Optimization (X-listed with Convex Optimization)
    2. Special Topics in Convex Optimization
  - Lecture notes / slides developed
    1. A. P. Liavas, Lecture Notes on “Special topics in Convex Optimization”
    2. A. P. Liavas, Lecture Notes on “Introduction to Optimization”
B – Publications

- Publications in refereed journals
  - Published:

D – Funded Projects

- Current projects:

- Project proposals submitted:
  - ΘΑΛΗΣ – SWINCOM
  - ΘΑΛΗΣ – DISCO

E – Professional service

- Society Technical Committee duties
  - re-elected member of the IEEE Signal Processing for Telecommunications and Networking (IEEE SPCOM) Technical Committee (re-elected December 2008).

- Reviewing activities

F – Service to the Department and the School

- Departmental responsibilities
  - Vice Chair

- School-level responsibilities
  - Alternate Senate Member (as Department Vice Chair)

G – Advising

- Undergraduate students supervised
  - Diploma theses in progress (supervisor)
    - Charitakis Georgios
    - Sapountzis Nikolaos
Name: Michael Paterakis
Rank: Professor
Years in rank: 13
Full-time or part-time: Full-time
Division: Telecommunications
Lab affiliation: Information and Computer Networks Laboratory

A – Teaching

• Undergraduate courses taught
  o *Wireless Communication Networks and Systems* (TEL 511), Advanced Senior
    Undergraduate Course, taught for first time (Fall 2011).
  o *Introduction to Modeling and Performance Evaluation of Computer
    Communication Networks* (TEL 414), Advanced Senior Undergraduate Course,
    taught for first time (Spring 2012).

• Graduate courses taught
  o *Modeling and Performance Analysis of Computer Communication Networks*
    (TEL 606), Graduate Course (Spring 2012). Offered independently from TEL
    414.

• Curriculum & Course Development
  o New courses developed: *Wireless Communication Networks and Systems* (TEL
    511) and *Introduction to Modeling and Performance Evaluation of Computer
    Communication Networks* (TEL 414). The development included the course
    material (from several books), and the homework assignments.
D – Funded Projects

- Current projects:
  - “Provision of Techno - Economic Advisory Services for the National Project: Open Access, Optical Fiber based Broadband Network to the Home”. Funded for the period 7/2011 – 8/2013 by the Greek Ministry of Infrastructures, Transportation and Networks. PI: Prof. M. Paterakis, Budget: 100.000 €.
  - “Social Network Aware Cognitive Radio Networks – SoCoNet”, funded by the GSRT Thales Program. This project is a collaborative effort of research teams from AUTH (ECE Dept.), TUC (ECE Dept.) and UTH (CET Dept.). Prof. M. Paterakis participates in the research team. Coordinator: Prof. Leonidas Georgiadis, ECE Dept., AUTH. Duration: 36 months. Total budget: 521.738 €.

E – Professional service

- Conference Technical Program Committee service:
  - 1st IEEE WoWMoM Workshop on Video Everywhere (VidEv’12), June 25, 2012 - San Francisco, California, USA.

- Reviewing activities:
  - 1st IEEE WoWMoM Workshop on Video Everywhere (VidEv’12), June 25, 2012 - San Francisco, California, USA.

F – Service to the Department and the School

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

G – Advising

- Undergraduate students supervised
  - Diploma theses in progress (supervisor):
Technical University of Crete
Department of Electronic & Computer Engineering

Annual Activity Report

For the period: September 1, 2011 to August 31, 2012

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 Laboratory
2) Laboratory of Automation

A – Teaching

- Undergraduate courses taught
  - Digital Signal Processing
  - Digital Image Processing
  - Computer Vision
  - Biomedical Engineering

- Graduate courses taught
  - Computer Vision

- Labs taught
  - Digital Signal Processing
  - Digital Image Processing

- Curriculum & course development
  - Lecture notes / slides developed: Digital Image Processing, Digital Signal Processing, Biomedical Engineering.
B – Publications

International Journals


Book Chapters

International Conferences

- Kalantzaki K, Bei ES, Garofalakis M, Zervakis M. Biological Interaction Networks based on Temporal expansion of Graphical Models. 5th International Conference on Medical Signal and Information Processing (MEDSIP 12), Liverpool, UK; July 5 – 6, 2012.

C – Awards & Distinctions

- Elevation to senior membership grades in Professional Societies (e.g., IEEE, ACM, …): IEEE Member

D – Funded Projects

2012-2015 Title: High frequency Monitoring System for integrated water resources management of rivers (CYBERSENSORS), GSRT Thales Programme
2012-2015 Title: e-TRAINING FOR WELLNESS IN SPA SERVICES (eTraWelSpa), LDV-Life Long Learning Programme (LLP-LdV-ToI-2011-RO-022)
2011-2013 Title: *Development of Research Infrastructure for Clinical Computational tools and Services for improved diagnosis and estimation of optimal therapy for oncological diseases (YPER0EN)*, INTERREG Cooperation Greece-Cyprus, Grant Agreement no.: K1_01_04

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

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

2010-2013 Title: Osteoarthritis: Holistic and systemic analysis for targeted biomolecular therapy (OASYS), GSRT Cooperation Programme.

- Project proposals submitted:
  - During the Calls of ICT and Health participated in the submission of two STREP.

**E – Professional service**

- Society Technical Committee duties
  - Session Chair BIBE-12 (International Conference on *BioInformatics and BioEngineering*).
  - International Programme Committee for IST 2012.
- Reviewing activities:
- Other
  - External reviewer for one PhD thesis from University of Thessaly, Med School.

**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 Ph.D.
  - Ioannis Dimou Ph.D., 2012
- Completed M.S.
  - Kostas Michalopoulos
• Active graduate students supervised
  ▪ Ph.D. and M.Sc. students supervised
    ▪ Alexandros Roniotis PhD Student
    ▪ Kostantina Moirogiorgou PhD student
    ▪ George Livanos MASc student
    ▪ Kalliopi Kalantzaki MASc student
• Undergraduate students supervised
  ▪ Diploma theses completed (supervisor):
    ▪ Antonis Lironis, “Visual surveillance to detect spatial characteristics in monuments”.