

# Christoforos N. Hadjicostis

Department of Electrical and Computer Engineering, 211 Green Park  
75 Kallipoleos Avenue, P.O. Box 20537, 1678 Nicosia, CYPRUS  
Tel: +357 22-892231, Fax: +357 22-895079  
E-mail: chadjic@ucy.ac.cy  
Home page: <http://www.eng.ucy.ac.cy/hadjicostis/>

- Current Positions*
- University of Cyprus (UCY)** Nicosia, Cyprus  
*Dean* December 2014–Present  
*Dean, School of Engineering*
- University of Cyprus (UCY)** Nicosia, Cyprus  
*Professor* July 2012–Present  
*Professor, Department of Electrical and Computer Engineering*
- Previous Positions*
- University of Cyprus (UCY)** Nicosia, Cyprus  
*Department Chair* February 2008–September 2010  
*Chair, Department of Electrical and Computer Engineering*
- University of Cyprus (UCY)** Nicosia, Cyprus  
*Associate Professor* May 2007–July 2012  
*Associate Professor, Department of Electrical and Computer Engineering*
- University of Illinois at Urbana-Champaign (UIUC)** Urbana-Champaign, IL  
*Associate Professor, Research Associate Professor* August 2005–May 2007  
*Associate Professor, Department of Electrical and Computer Engineering*  
*Research Associate Professor, Coordinated Science Laboratory*  
*Research Associate Professor, Information Trust Institute*
- University of Illinois at Urbana-Champaign (UIUC)** Urbana-Champaign, IL  
*Assistant Professor, Research Assistant Professor* August 1999–August 2005  
*Assistant Professor, Department of Electrical and Computer Engineering*  
*Research Assistant Professor, Coordinated Science Laboratory*
- Education*
- Massachusetts Institute of Technology (MIT)** Cambridge, MA
- Doctor of Philosophy, Electrical Engineering and Computer Science, August 1999.**  
Thesis: *Coding Approaches to Fault Tolerance in Dynamic Systems*.  
Thesis supervisor: G. C. Verghese.  
Areas of concentration: computational and signal processing architectures, computer networks, digital signal processing, discrete event systems, dynamic (sequential) systems, and parallel algorithms.  
Course work also included cryptography, error-correcting codes, mathematical analysis, power electronics, neural networks, and corporate finance theory.
- Master of Engineering, Electrical Engineering and Computer Science, February 1995.**  
Thesis: *Fault-Tolerant Computation in Semigroups and Semirings*.  
Thesis supervisor: G. C. Verghese.  
Awarded top Masters thesis prize in EECS Department at MIT.  
Graduate courses included artificial intelligence, computer architecture, detection and estimation, discrete-time signal processing, information theory, parallel algorithms and architectures, stochastic processes, and systems engineering.
- Bachelor of Science, Mathematics, February 1999.**  
**Bachelor of Science, Computer Science and Engineering, May 1993.**  
**Bachelor of Science, Electrical Engineering, May 1993.**  
Thesis: *Static Allocation Techniques for Minimizing Cache Conflicts in Multiprocessor Caches*.  
Thesis supervisor: A. Agarwal.

## Christoforos N. Hadjicostis

*Fields of Interest* (i) Fault-tolerant combinational/sequential systems; error control coding  
(ii) Distributed algorithms for estimation, diagnosis, and control; applications to cyber-physical systems, and networks of embedded sensors and actuators  
(iii) Systems and automation; discrete event systems; coding and graph theory  
(iv) Monitoring, diagnosis and control; model classification and anomaly detection; applications to network security, medical diagnosis, and biosequencing

*Memberships* Member of the IEEE Control Systems Society, Information Theory Society, and Circuits and Systems Society, 1999–Present; Senior Member, 2005–Present.  
Member of the IEEE Robotics and Automation Society, Senior Member, 2014–Present.  
Member of the IEEE Smart Grid Community, Senior Member, 2013–Present.  
Member of the IEEE Communications Society, Senior Member, 2011, 2013.  
Member of the IEEE Industrial Electronics Society, Senior Member, 2011.  
President/Vice-President of Eta Kappa Nu, Electrical and Computer Engineering honor society, 1993–1994. Member, 22 years.  
Member of Sigma Xi, society of research scientists, 1999–2009.

*Language Skills* Native Greek, fluent English, and working knowledge in French.

*AWARDS Research* Invited Visiting Professor in the Department of Electrical and Electronic Engineering at the University of Cagliari, Italy (University of Cagliari, Summer 2015, Summer 2016).  
Selected for a second phase presentation in the 2012 Starting/Consolidator Grant competition by the European Research Council (European Research Council, 2012).  
Invited Visiting Professor in the Department of Electrical and Electronic Engineering at the University of Cagliari, Italy (University of Cagliari, Summer 2012).  
Selected for a second phase presentation in the 2011 Starting/Consolidator Grant competition by the European Research Council (European Research Council, 2011).  
Best Student Paper Award finalist for the 2008 American Control Conference (with doctoral student Shreyas Sundaram, American Automatic Control Council, 2008).  
Marie-Curie International Reintegration Grant (European Commission, 2008-2012).  
Best Student Paper Award finalist for the 2007 American Control Conference (with doctoral student Shreyas Sundaram, American Automatic Control Council, 2007).  
Invited Visiting Professor in the Department of Electrical and Electronic Engineering at the University of Cagliari, Italy (University of Cagliari, Spring 2007).  
Outstanding reviewer of *Automatica* for 2005–2006 (*Automatica*, 2007).  
Invited Visiting Researcher at IRISA/INRIA, Rennes, France (IRISA, Fall 2006).  
Willet Faculty Scholar (College of Engineering, UIUC, 2006–2009).  
IEEE Senior Member recognition for professional service to the IEEE Circuits and Systems, Control Systems, and Information Theory Societies (IEEE, January 2005).  
Research work feature article in the August 2004 issue of *Advances in Circuits and Systems*, the newsletter of the IEEE Circuits and Systems Society (IEEE, Circuits and Systems Society, 2004).  
National Science Foundation Career Award (NSF, USA, 2001).  
Recognized reviewer of the IEEE Transactions on Automatic Control (IEEE, Control Systems Society, 2001).  
Ernst A. Guillemin Thesis Prize for exceptional Master of Engineering Thesis, the top Masters Thesis prize awarded by the Department of Electrical Engineering and Computer Science (MIT, 1995).

## Christoforos N. Hadjicostis

- AWARDS**  
*Teaching*
- Advisee George Georgiou received a prize for the Best Undergraduate Project in Computer Engineering (Department of Electrical and Computer Engineering, University of Cyprus, 2012).  
Engineering Council Award for Excellence in Advising (College of Engineering, UIUC, 2004).  
ECE Faculty Outstanding Teaching Award (Department of Electrical and Computer Engineering, UIUC, 2003).  
Collins Scholar (College of Engineering Teaching College, UIUC, 2001).  
Harold L. Hazen Teaching Award for outstanding teaching performance by a graduate student (Department of Electrical Engineering and Computer Science, MIT, 1999).
- AWARDS**  
*Fellowships, Scholarships and Prizes*
- Fellowship from Grass Instrument Company (Department of Electrical Engineering and Computer Science, MIT, Spring 1999).  
Fellowship from National Semiconductor Corporation (USA, 1998).  
Fellowship from National Semiconductor Corporation (USA, 1997).  
Fellowship from Josephine de Kármán Foundation (USA, 1996–1997).  
Letters of commendation for exceptional academic performance in five core undergraduate courses offered by the Department of Electrical Engineering and Computer Science (MIT, 1989–1993).  
Scholarship by the Agency for International Development for studies at MIT (Cyprus, 1989–1993).  
Scholarship by the British Commonwealth for studies at Cambridge University (declined, Cyprus, 1989).  
Scholarship by the Greek Government for studies at NTUA, the National Technical University in Athens (declined, Cyprus, 1989).  
First Prize in International Mathematical Competition between students of Balkan countries (1987).  
Third Prize in International Mathematical Competition between students of Balkan countries (1986).  
First Prizes in National Competitions in Mathematics (Cyprus Mathematics Society, 1987 and 1988).  
First Prizes in National Competitions in Physics (Cyprus Physics Society, 1987 and 1988).  
Multiple appearances in International Mathematical Olympiads (1986–1987).  
Eligible for participation in International Physics Olympiads (1987–1988).  
First place in national university entrance examinations for engineering programs (Cyprus, 2007).
- AWARDS**  
*Students*
- George Georgiou, Best Undergraduate Project in Computer Engineering (Department of Electrical and Computer Engineering, University of Cyprus, 2012).  
Shreyas Sundaram, Best Student Paper Award finalist for the 2008 American Control Conference (American Automatic Control Council, 2008).  
Shreyas Sundaram, Best Student Paper Award finalist for the 2007 American Control Conference (American Automatic Control Council, 2007).  
Shreyas Sundaram, Best Session Presentation Award for 2006 IEEE Conference on Decision and Control, 2006.  
Rouzbeh Touri, Best Session Presentation Award for 2002 IEEE Conference on Decision and Control, 2002.
- Plenary/Semi-plenary Lectures**
- Plenary lecture at the 4th IFAC Conference on Analysis and Design of Hybrid Systems (ADHS 15), Atlanta, USA, October 2015.  
Invited lecture on “Fault Diagnosis in Discrete Event Systems: State-of-the-Art and Emerging Challenges” at the 1st European Experts’ Workshop on Event Based Systems — Event Based Systems in 2020: Analysis and Forecast,” Krakov, Poland, June 2015.  
Semi-plenary lecture at the 8th IFAC Symposium on Fault Detection, Supervision and Safety for Technical Processes (SAFEPROCESS 2012), Mexico City, Mexico, August–September 2012.

## Christoforos N. Hadjicostis

*Teaching  
Experience  
(continues)*

**UCY, Department of Electrical and Computer Engineering** *Nicosia, Cyprus*  
*Professor* *Spring 2016, Spring 2015, Spring 2014*  
 Offered a senior level course on *Fault-Tolerant Systems*; suggested for undergraduate students enrolled in the Computer Engineering program that are interested in the analysis and design of reliable systems (approximately 40 students).

**UCY, Department of Electrical and Computer Engineering** *Nicosia, Cyprus*  
*Professor / Associate Professor* *Fall 2015, Fall 2014, Fall 2013, Fall 2011, Fall 2009, Fall 2008, Fall 2007*

Taught junior level course on *Discrete Mathematics and Structures*; required for all undergraduate students enrolled in the Computer Engineering program (approximately 30 students).

**UCY, Department of Electrical and Computer Engineering** *Nicosia, Cyprus*  
*Professor* *Fall 2014, Fall 2013, Spring 2013*

Taught graduate course on *Random Processes*; required for graduate students in the areas of systems and control, communication, and signal processing (approximately 10 students).

**UCY, Department of Electrical and Computer Engineering** *Nicosia, Cyprus*  
*Professor / Associate Professor* *Spring 2013, Fall 2010*

Offered pilot versions of graduate course on *Fault Diagnosis and State Classification*; suggested for graduate students in the systems and control, and computer engineering areas (approximately 10 students).

**UCY, Department of Electrical and Computer Engineering** *Nicosia, Cyprus*  
*Associate Professor* *Spring 2012*

Offered pilot version of graduate course on *Fault-Tolerant Systems*; suggested for graduate students in the systems and control, and computer engineering areas (approximately 15 students).

**UCY, Department of Electrical and Computer Engineering** *Nicosia, Cyprus*  
*Associate Professor* *Spring 2012, Spring 2011, Spring 2010*

Taught junior level course on *Random Systems and Signals*; required for all undergraduate students enrolled in the department (approximately 80 students).

**UCY, Department of Electrical and Computer Engineering** *Nicosia, Cyprus*  
*Associate Professor* *Spring 2009, Spring 2008*

Developed dual-level (senior level and graduate level) course on *Fault-Tolerant Systems*; suggested for undergraduate students enrolled in the Computer Engineering program and graduate students that are interested in the analysis and design of reliable systems (approximately 15 students).

**UIUC, Department of Electrical and Computer Engineering** *Urbana-Champaign, IL*  
*Associate Professor* *Spring 2007*

Taught introductory course on *Computer Engineering I*; required for all undergraduate students in the ECE Department (approximately 150 students).

**UIUC, Department of Electrical and Computer Engineering** *Urbana-Champaign, IL*  
*Associate / Assistant Professor* *Spring 2006, Fall 2003, Spring 2000*

Developed advanced graduate seminar on *Coding Approaches to Reliable System Design*; suggested for audiences with interests in the design of fault-tolerant and reliable dynamic systems and networks (approximately 8 students).

## Christoforos N. Hadjicostis

*Teaching  
Experience  
(continued)*

**UIUC, Department of Electrical and Computer Engineering** *Urbana-Champaign, IL*  
*Associate / Assistant Professor* *Fall 2005, Fall 2004, Fall 2002, Fall 2001, Fall 2000, Fall 1999*  
 Taught senior level course *Communication I*; elective that served as the first course in the sequence of courses in communications and was required for students concentrating in this area (approximately 45 students); expanded course curriculum by including discussions on hypothesis testing, signal detection and estimation; co-developed a set of five MATLAB-based exercises to accompany homework's in this course.

**UIUC, Department of Electrical and Computer Engineering** *Urbana-Champaign, IL*  
*Assistant Professor* *Spring 2005, Spring 2004*  
 Taught graduate course on *Random Processes*; suggested for students in the areas of Communication, Signal Processing, and Control (approximately 45 students).

**UIUC, Department of Electrical and Computer Engineering** *Urbana-Champaign, IL*  
*Assistant Professor* *Spring 2003, Spring 2001*  
 Taught junior level course on *Digital Signal Processing*; restricted elective that serves as the first course in digital signal processing (approximately 110 students).  
 Received ECE Faculty Outstanding Teaching Award (Department of Electrical and Computer Engineering, UIUC, 2003).

**UIUC, Department of Electrical and Computer Engineering** *Urbana-Champaign, IL*  
*Assistant Professor* *Spring 2002*  
 Taught senior level course on *Digital Logic Design*; elective chosen mostly by students enrolled in the Computer Engineering program (approximately 120 students).

*Funded  
Course  
Development*

“Development of an Interactive Demonstration/Laboratory Component for ECE 459 (Communications I),” College of Engineering (\$38K, Co-PI, 2005).

*Other  
Teaching  
Experience*

**MIT, Department of Electrical Engineering and Computer Science** *Cambridge, MA*  
*Recitation Instructor* *Fall 1998*  
 Senior level course *Introduction to Communication, Control, and Signal Processing*; required header subject for Master of Engineering students concentrating in this area (150 students).  
 Received Harold L. Hazen Teaching Award for outstanding teaching performance.  
 Taught recitations (sessions of 30–35 students that focused on problem-solving techniques and enforced concepts introduced in lecture); also assisted in course development.  
 Lecturer: Prof. A. V. Oppenheim.

**MIT, Department of Electrical Engineering and Computer Science** *Cambridge, MA*  
*Teaching Assistant* *Spring 1998, Fall 1996, Fall 1995, Fall 1994*  
 Senior level course *Introduction to Communication, Control, and Signal Processing*; required header subject for Master of Engineering students concentrating in this area (150 students).  
 Taught tutorial sessions and participated in the development of examples, problems and exams.  
 Lecturers: A. V. Oppenheim, G. C. Verghese, and G. W. Wornell.

**MIT, Department of Electrical Engineering and Computer Science** *Cambridge, MA*  
*Teaching Assistant* *Spring 1994*  
 Undergraduate laboratory *Software Engineering*; required for students in Computer Science and Engineering. Taught recitations (sessions of 20–30 students that met twice a week) and generated problem sets, laboratory exercises, supporting software, and quiz problems.  
 Lecturer: W. Wehl.

## Christoforos N. Hadjicostis

*Course  
Development*

**UCY, Department of Electrical and Computer Engineering**  
*Professor*

*Nicosia, Cyprus  
Spring 2014*

Developed and offered a pilot version of an undergraduate course on *Fault-Tolerant Systems*, which is intended for audiences in the computer engineering area that are interested in reliable system design, monitoring, and operation.

**UCY, Department of Electrical and Computer Engineering**  
*Professor / Associate Professor*

*Nicosia, Cyprus  
Spring 2013, Fall 2010*

Developed and offered pilot versions of a graduate course on *Fault Diagnosis and State Classification*, which is intended for audiences in the systems and control, and computer engineering areas. The course provides exposure to advanced concepts for fault diagnosis and state estimation/classification in discrete event systems (DES), and blends together techniques from automata and Petri net theory, complexity theory, systems and control, fault detection and identification, and state estimation.

**UCY, Department of Electrical and Computer Engineering**  
*Associate Professor*

*Nicosia, Cyprus  
Spring 2009, Spring 2008*

Developed and offered a dual-level (senior level and graduate level) course on *Fault-Tolerant Systems*; course combines topics in system reliability, fault-tolerant systems, coding theory, and digital design.

**UIUC, Department of Electrical and Computer Engineering**  
*Associate Professor*

*Urbana-Champaign, IL  
Fall 2005–Spring 2006*

Co-developed an interactive demonstration/laboratory MATLAB component for senior-level course *Communications I* (ECE 459); funds provided by the College of Engineering.

**UIUC, Department of Electrical and Computer Engineering**  
*Associate/Assistant Professor*

*Urbana-Champaign, IL  
Spring 2006, Fall 2003, Spring 2000*

Developed graduate course on *Coding Approaches to Reliable System Design*. Pilot version offered in Spring 2000 and third offering took place in Spring 2006 as a permanent seminar of the course *Special Topics in Decision and Control* (ECE 586). Combines topics from systems and control theory, coding theory, and digital logic design.

**UIUC, Department of Electrical and Computer Engineering**  
*Associate/Assistant Professor*

*Urbana-Champaign, IL  
Spring 2006, Fall 2003, Spring 2000*

Developed graduate course on *Coding Approaches to Reliable System Design*. Pilot version offered in Spring 2000 and third offering took place in Spring 2006 as a permanent seminar of the course *Special Topics in Decision and Control* (ECE 586). Combines topics from systems and control theory, coding theory, and digital logic design.

*Funded  
Research  
Projects  
(continues)*

“Enabling Novel Digital and Networking Technologies via Design for Fault Tolerance,” University of Illinois Research Board (\$25K, PI, 2000).

“Enhanced Equalization and Decoding for EDGE, 3G and Beyond,” Motorola Research Center at the University of Illinois (\$270K, Co-PI, 2000).

“Hierarchical and Reconfigurable Schemes for Distributed Control over Heterogeneous Networks,” National Science Foundation (ITR Program) (\$3.5M, Co-PI, 2000).

“An Integrated Approach to Fault Tolerance in Discrete-Time Dynamic Systems,” National Science Foundation (Career Program) (\$375K, PI, 2001).

“Architectures for Secure and Robust Distributed Infrastructures,” Air Force Office of Scientific Research (URI Program) (\$3.5M, Co-PI, 2001).

“Layered Control Architectures for Complex Networked Systems,” National Science Foundation (ECCS, Division of Electrical, Communications and Cyber Systems) (\$270K, Co-PI, 2001).

“Distributed and Hierarchical Monitoring Schemes for Heterogeneous Networks,” Lucent Technologies (\$20K, Co-PI, 2001).

## Christoforos N. Hadjicostis

*Funded  
Research  
Projects  
(continued)*

“Enabling Novel Digital Sequential Circuit Designs through Error Control and Noise Tolerance Techniques,” National Science Foundation (ITR Program) (\$240K, PI, 2002).

“Dynamical Models in Fault-Tolerant Operation and Control of Energy Processing Systems,” National Science Foundation (EPNES Program) (\$250K, PI, 2002).

“Extension for “Architectures for Secure and Robust Distributed Infrastructures”,” Air Force Office of Scientific Research (URI Program) (\$2M, Co-PI, 2004).

“Diagnosis and Assessment of Faults, Misbehavior and Threats in Distributed Systems and Networks,” National Science Foundation (ITR Program) (\$1.1M, PI, 2004).

“Distributed Diagnosis and Assessment of Faults, Misbehavior and Threats in Heterogeneous Networked Systems,” UIUC/CNRS/INRIA Collaboration in Computer Science (\$6K, PI, 2005).

“Enabling Diagnosis of Faults and Misbehavior in Heterogeneous Networked Systems via Structured Redundancy,” Boeing (\$300K, PI, 2006).

“Control for Coordination of Distributed Systems,” European Commission (2.8M Euro, Co-PI (Participant), 2008).

“Resilient Network Control Systems,” European Commission (100K Euro, PI (Coordinator), 2008).

“Composition Technology for Safety-Critical Modular Systems,” National Science Foundation (CNS, Division of Computer and Network Systems) (\$300K, Co-PI, 2008).

“Assessing and Building Trust in Next Generation Network Architectures,” Cyprus Research Promotion Foundation (95K Euro, PI (Coordinator), 2008).

“Simulation and Evaluation Framework for Manycore Architectures,” Cyprus Research Promotion Foundation (90K Euro, Co-PI (Participant), 2008).

“System Validation via Intelligent Collaboration for Reliable Simulation and Evaluation Framework for Manycore Architectures,” Cyprus Research Promotion Foundation (130K Euro, Co-PI (Participant), 2008).

“Energy-Efficient Embedded and Mobile Multiprocessor System-On-Chip Architectures,” Cyprus Research Promotion Foundation (130K Euro, Co-PI (Participant), 2008).

“COST Action Intelligent Monitoring, Control and Security of Critical Infrastructure Systems (IntellicIS),” European Commission (Co-PI (Participant), 2009).

“KIOS Research Center for Intelligent Systems and Networks,” Cyprus Research Promotion Foundation (1.1M Euro, Co-PI (Participant), 2010).

“Nanoscale Modeling and Optimization of Hard Disk Drive Design with Experimental Validation for Ultrahigh Recording Densities,” Cyprus Research Promotion Foundation (70K Euro, PI (Coordinator), 2010).

“Uncertain Communication and Control Systems,” University of Cyprus (80K Euro, Co-PI (Participant), 2010).

“Compositional Techniques for Analysis of Safety Critical Interconnected Systems,” Cyprus Research Promotion Foundation (120K Euro, PI (Coordinator), 2011).

“Participation in FP7 Programs Deminimis Grant,” Cyprus Research Promotion Foundation (7K Euro, PI (Coordinator), 2012).

“Communication for Control of Distributed Systems,” Qatar Foundation (\$1M, Co-PI (Participant), 2013).

“Distributed Control Strategies with Application to Robust Fractional Order Controllers for Distillation,” Cyprus Research Promotion Foundation (25K Euro, PI (Coordinator), 2014). [Cyprus-Romania Collaborative Project with Universitatea Tehnica din Cluj-Napoca (Dr. Eva Henrietta Dulf) and University of Cyprus (Dr. Christoforos Hadjicostis).]

“Increasing Crops Biomass by Uncovering the Circadian Clock Network using Dynamical Models,” Cyprus Research Promotion Foundation (via the Joint ERASySAPP Call Transferring Systems Biology Knowledge into Applications, within FP7 framework of European Commission) (833K Euro, Co-PI (Participant), 2015).

“Full-Duplex Radio for LTE Communication Systems,” Cyprus Research Promotion Foundation (90K Euro, Co-PI (Participant), 2015). [Cyprus-Israel Collaborative Project.]

## Christoforos N. Hadjicostis

### *Invited Lectures*

[Invited lectures at conferences and workshops appear in the *Publications* section of the CV.]

Invited lecture at the DIEE Department, University of Cagliari, July 14, 2016.

Invited lecture at the Workshop on “Distributed and Stochastic Optimization: Theory and Applications” (Organizers: Kostas Margellos, University of Oxford, UK and Maria Prandini, Politecnico di Milano, Italy), European Control Conference, Aalborg, Denmark, June 28, 2016.

Invited lectures at Grainger Speaker Series, University of Illinois at Urbana-Champaign, July 2-3, 2014.

Invited lecture at the Control Seminar Series, University of Groningen, February 21, 2014.

Invited lecture at the Workshop on “Control and Adaptation: A 30-Year Journey” in celebration of Dr. P. Ioannou 60th birthday, Larnaca, Cyprus, June 24, 2013.

Invited lecture at the Center for Information & Systems Engineering, Boston University, November 30, 2012.

Invited lecture at the DIEE Department, University of Cagliari, June 19, 2012.

Invited lecture at the EES Department (Automatic Control), Royal Institute of Technology (KTH), May 23, 2012.

Invited lecture at the ECE Seminar Series, Frederick University, May 16, 2012.

Invited lecture at the DIEE Department, University of Cagliari, May 7, 2012.

Invited lecture at the Workshop on “Decision, Dynamics and Control in Multi-Agent Systems,” University of California at Santa Barbara, June 24, 2011.

Invited lecture at the Workshop on the “10 $\pi$  Celebration for George Verghese,” MIT, Cambridge, USA, May 22, 2010.

Invited lecture at the “C4C Summer School on Control for Coordination of Distributed Systems,” Verona, October 5-6, 2009.

Invited lecture at the “Robust Systems Engineering Workshop,” Brussels, April 27, 2009.

Invited lecture at the ECE Seminar Series of the University of Cyprus, January 23, 2008.

Two invited lectures at the DIEE Department at the University of Cagliari, March 27–28, 2007.

Invited lecture at the Laboratory for Information Systems (LIDS) Colloquium, MIT, October 18, 2005.

Invited lecture at the Distributed Computation and Signal Processing Group at IRISA/INRIA (Rennes, France), July 5, 2005.

Invited lecture at the ECE Seminar Series at Yale University, September 15, 2004.

Invited lecture at ECE Seminar Series of the University of Cyprus, July 21, 2004.

Invited lecture at the University of Notre Dame Discrete/Continuous System Theory Seminar Series, March 19, 2004.

Invited lecture at the Systems Seminar at the University of Wisconsin at Madison, October 15, 2003.

Invited lecture at the Hybrid/Embedded/Biological Systems Seminar at the University of Pennsylvania, April 25, 2003.

Invited lecture at the Control Seminar Series at the University of Michigan, March 21, 2003.

Invited lecture at Qualcomm Labs in San Francisco, May 9, 2003.

Invited lecture at the ONR Control Challenge Collaborative Technical Kickoff at the Naval Academy, Annapolis (MD), November 8, 2002.

Invited lecture at Qualcomm Labs in San Francisco, May 18, 2001.

Invited lecture at seminar series of the Illinois Center for Integrated Microsystems at the University of Illinois at Urbana-Champaign, April 17, 2000.

Invited lecture at the Computer Engineering Seminar Series at the University of Illinois at Urbana-Champaign, March 2000.

Invited lecture at McGill University, May 1999.

Invited lecture at the University of Illinois at Urbana-Champaign, April 1999.

Invited lecture at Boston University, April 1999.

Invited lecture at Oxford University, April 1999.

Invited lecture at Hewlett-Packard Laboratories in Bristol (UK), April 1999.

Invited lecture at Northeastern University, March 1999.

Invited lecture at Carleton University, March 1999.

Invited lecture at the University of New Mexico, March 1999.



## Christoforos N. Hadjicostis

*Other  
Research  
Experience*

### **University of Cagliari**

*Visiting Professor*

*Cagliari, Italy  
Summer 2016, Summer 2015*

Graduate student co-supervision and/or collaboration on various research projects with faculty in the Department of Electrical and Electronic Engineering. Presented seminars on distributed control of electrical energy systems and distributed estimation in discrete event systems.

### **University of Cagliari**

*Visiting Associate Professor*

*Cagliari, Italy  
Summer 2012*

Collaborated on various research projects with faculty and students in the Department of Electrical and Electronic Engineering. Presented seminars on resilient distributed average consensus and opacity formulations in discrete event systems.

### **University of Cagliari**

*Visiting Associate Professor*

*Cagliari, Italy  
Spring 2007*

Collaborated on various research projects with faculty and students in the Department of Electrical and Electronic Engineering. Presented seminars on coded dynamic systems and state estimation in labeled Petri nets.

### **IRISA/INRIA**

*Visiting Researcher*

*Rennes, France  
Fall 2006*

Collaborated on various projects with researchers at IRISA/INRIA, Rennes. Presented a seminar on coded dynamic systems.

### **National Semiconductor Corporation**

*DSP Algorithm Designer*

*Santa Clara, CA  
Summer 1997*

Implemented the encoding and decoding stage of a 24-dimensional lattice code for the Gigabit Ethernet standard (1000 BASE-T).

### **MIT, Digital Signal Processing Group (RLE)**

*Fellowship-Sponsored Researcher*

*Cambridge, MA  
Spring 1999, Spring 1998, Fall 1997*

Funding provided by fellowships from the Grass Instrument Company, the National Semiconductor Corporation, and the Josephine de Kármán Foundation.

### **MIT, Digital Signal Processing Group (RLE)**

*Research Assistant*

*Cambridge, MA  
Fall 1993–Summer 1996*

Research assistantship under partial support from RASSP (Rapid-Prototyping of Application Specific Signal Processors) program of ARPA (Advanced Research Projects Agency).

### **MIT, Laboratory for Computer Science**

*Undergraduate Researcher*

*Cambridge, MA  
Summer 1993*

Developed algorithms for the memory assignment problem in shared-memory multiprocessors.

*SERVICE  
National  
Committees*

Serves on a National Committee for evaluating courses and diplomas for the Cyprus Council for the Recognition of Higher Education Qualifications (KYSATS) in Electrical and Electronic Engineering, Jan. 2014–Present.

Served on a National Committee for evaluating courses and diplomas for the Cyprus Council for the Recognition of Higher Education Qualifications (KYSATS) in Computer Engineering, 2012–2014.

Served on a National Committee for evaluating courses and diplomas for the Cyprus Council for the Recognition of Higher Education Qualifications (KYSATS) in Engineering, 2011–2012.

Served on a National Committee that reported to the Ministers of Education and Labor on post-lyceum educational options in Cyprus, 2008.

## Christoforos N. Hadjicostis

- SERVICE Technical Committees* Participates in the Technical Committee on Discrete Event Systems of the IEEE Control and Systems Society (CSS), 2016–Present.  
 Participates in the IFAC (International Federation of Automatic Control) Technical Committee 1.3 on Discrete Event and Hybrid Systems, 2008–Present.  
 Participates in the IFAC (International Federation of Automatic Control) Technical Committee 1.4 on Stochastic Systems, 2008–Present.  
 Participates in the Subcommittee on Industrial Automated Systems and Control, a subcommittee of the IEEE IES Technical Committee on Factory Automation, 2014–Present.  
 Participates in the Technical Committee on Discrete Event Systems of the IEEE Systems, Man and Cybernetics Society, 2014–Present.  
 Served as vice-chair of the IFAC (International Federation of Automatic Control) Technical Committee 1.3 on Discrete Event and Hybrid Systems, 2011–2014.  
 Served as vice-chair of the IFAC (International Federation of Automatic Control) Technical Committee 1.4 on Stochastic Systems, 2008–2011.  
 Participated in the Technical Committee on Networks and Communications of the IEEE Control and Systems Society (CSS), 2010–2012.
- SERVICE Awards* IEEE Senior Member recognition for professional service to the IEEE Circuits and Systems, Control Systems, and Information Theory Societies (IEEE, January 2005).  
 Outstanding reviewer for *Automatica*, 2007.  
 Recognized reviewer for IEEE Transactions on Automatic Control, 2001.
- SERVICE Journal Editorships* Associate Editor for *Automatica*, April 2016–Present.  
 Associate Editor for the *Journal of Nonlinear Analysis: Hybrid Systems*, December 2015–Present.  
 Associate Editor for IEEE Transactions on Automation Science and Engineering, January 2015–Present.  
 Associate Editor for IEEE Transactions on Automatic Control, November 2011–Present.  
 Associate Editor for *International Journal on Discrete Event Dynamic Systems: Theory and Applications*, January 2010–Present.  
 Associate Editor for IEEE Transactions on Control Systems Technology, December 2007–2014.  
 Associate Editor for IEEE Transactions on Circuits and Systems I (Regular Papers), December 2005–September 2008.  
 Associate Editor for IEEE Transactions on Circuits and Systems I (Regular Papers), December 2003–November 2005.  
 Guest Lead Associate Editor for the special issue of *Nonlinear Analysis: Hybrid Systems* on “Selected papers of the IFAC World Congress 2014,” November 2014–Present (Guest Lead Associate Editor with Zhiyun Lin and Olaf Stursberg).  
 Guest Associate Editor for the special issue of IEEE Transactions on Automation Science and Engineering on “Advances in Discrete Event Systems for Automation,” October 2011–2014 (with M.-P. Fanti (Lead), C. Cassandras, S. Reveliotis, and C. Seatzu).  
 Guest Associate Editor for the special issue of *International Journal of Systems, Control and Communications* on “Information Processing and Decision Making in Distributed Control Systems,” December 2007–September 2009 (with C. Langbort, N. Martins, and S. Yuksel).
- SERVICE Conference Organization (continues)* Registration Chair (member of the Organizing Committee) for the 2016 IEEE Conference on Decision and Control (CDC 2016).  
 Regional Chair for 14th International Conference on Control, Automation, Robotics and Vision, (ICARCV 2016).  
 Associate Editor of the Conference Editorial Board (CEB) for 2016 IEEE International Conference on Automation Science and Engineering (IEEE CASE 2016).

## Christoforos N. Hadjicostis

SERVICE  
Conference  
Organization  
(continued)

Co-Chair for the Conference on Emerging Technologies and Factory Automation (ETFA 2015) Track 4 “Automated Manufacturing Systems” (regular paper and “work-in-progress” papers).  
Associate Editor for IFAC (International Federation of Automatic Control) World Congress 2014.  
Co-Chair for the Conference on Emerging Technologies and Factory Automation (ETFA 2013) Track 4 “Automated Manufacturing Systems.”  
Associate Editor for IFAC (International Federation of Automatic Control) World Congress 2011.  
Associate Editor of the Conference Editorial Board (CEB) of the IEEE Control Systems Society, 2007, 2006, 2005, 2004, 2003, 2002, 2001.  
Co-Chair for 2007 Allerton Conference on Communication, Control, and Computing.  
Co-Chair and Co-Program Chair for 2007 Workshop on Control over Communication Channels (Con-Com 2007).  
Co-Chair Chair for 2006 Allerton Conference on Communication, Control, and Computing.  
Served as one of the three Program Chairs of the 2005 IEEE International Conference on Networking, Sensing and Control (ICNSC 2005).

SERVICE  
Journal  
Reviewing

Reviewer for IEEE Transactions on Automatic Control; IEEE Transactions on Automation Science and Engineering; IEEE Transactions on Circuits and Systems I; IEEE Transactions on Circuits and Systems II; IEEE Transactions on Control of Network Systems; IEEE Transactions on Control Systems Technology; IEEE Transactions on Communications; IEEE Transactions on Computers; IEEE Transactions on Dependable and Secure Computing; IEEE Transactions on Industrial Electronics; IEEE Transactions on Industrial Informatics; IEEE Transactions on Information Theory; IEEE Transactions on Networks Science and Engineering; IEEE Transactions on Neural Networks; IEEE Transactions on Power Systems; IEEE Transactions on Reliability; IEEE Transactions on Robotics and Automation; IEEE Transactions on Signal Processing; IEEE Transactions on Systems, Man and Cybernetics — Part A; IET (IEE) Proceedings – Computers and Digital Techniques; IET (IEE) Proceedings – Control Theory and Applications; Asian Journal of Control; Automatica; Control Engineering Practice; Discrete Applied Mathematics; Discrete Event Dynamic Systems; Electronic Letters; European Journal of Control; European Transactions on Telecommunications; IEEE Journal on Selected Areas in Communications; IEEE Proceedings; IEEE Sensors Journal; IEEE Signal Processing Letters; IEEE Systems Journal; Information Sciences; International Journal of Computer Mathematics; International Journal of Control; International Journal of Control, Automation and Systems; International Journal of Critical Infrastructures; International Journal of Dynamics and Control; International Journal of Dynamics, Systems, Measurement and Control; International Journal of Robust and Nonlinear Control; Journal of Applied Mathematics; Journal of Complexity; Journal of Nonlinear Analysis: Hybrid Systems; Kybernetika; Mathematics of Computation; Mathematics of Control, Signals and Systems; SIAM Journal on Control and Optimization; Systems and Control Letters; The Computer Journal.

SERVICE  
Conference  
Reviewing  
(continues)

Reviewer for the IEEE Conference on Decision and Control (CDC) 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2000, 1998.  
Reviewer for the American Control Conference (ACC) 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001, 2000.  
Reviewer for the IFAC (International Federation of Automatic Control) World Congress 2014, 2011, 2008, 2005.  
Reviewer for the IFAC Workshop on Dependable Control of Discrete Systems (DCDS) 2015, 2013, 2011, 2009, 2007.  
Reviewer for the Mediterranean Conference on Control and Automation (MED) 2016, 2015, 2013, 2012, 2011, 2009, 2008, 2005.  
Reviewer for the IEEE International Conference on Emerging Technologies and Factory Automation (ETFA) 2016, 2015, 2014, 2013, 2012.  
Reviewer for IEEE International Conference on Smart Grid Communications (IEEE SmartGridComm, Symposium on Architectures and Models for the Smart Grid) 2013, 2012, 2011.

## Christoforos N. Hadjicostis

- SERVICE  
Conference  
Reviewing  
(continued)*
- Reviewer for the European Control Conference (ECC) 2016, 2015, 2014, 2013, 2007.  
 Reviewer for the International Workshop on Discrete Event Systems (WODES) 2016, 2014, 2012, 2010, 2006.  
 Reviewer for IEEE International Conference on Automation Science and Engineering (CASE) 2016, 2011, 2010.  
 Reviewer for the 34th Annual ACM Symposium on Principles of Distributed Computing (PODC 2015).  
 Reviewer for the IFAC Workshop on Estimation and Control of Networked Systems (NecSys) 2010, 2009.  
 Reviewer for Allerton Conference on Communication, Control, and Computing (Allerton) 2007, 2006, 2005, 2004, 2003, 2002, 2001.  
 Reviewer for Hellenic IEEE Student Branches Congress (HSBC), 2013.  
 Reviewer for the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2013.  
 Reviewer for an invited paper submitted to the Workshop on Control of Cyber-Physical Systems, John Hopkins, 2013.  
 Reviewer for the 8th IFAC Symposium on Fault Detection, Supervision and Safety for Technical Processes (SAFEPROCESS) 2012.  
 Reviewer for the 2012 IFAC Conference on Analysis and Design of Hybrid Systems (ADHS) 2012.  
 Reviewer for the 19th International Symposium on Mathematical Theory of Networks and Systems (MTNS) 2010.  
 Reviewer for the European Signal Processing Conference (EUSIPCO) 2010.  
 Reviewer for the 4th International Symposium on Control, Communications, and Signal Processing (ISCCSP) 2010.  
 Reviewer for the International Theory Workshop on Networking and Information Theory (ITW) 2009.  
 Reviewer for the 19th International Workshop on Principles of Diagnosis (DX) 2008.  
 Reviewer for the 32nd Annual Conference of the IEEE Industrial Electronics Society (IECON) 2006.  
 Reviewer for the International Symposium on Circuits and Systems (ISCAS) 2004, 2003.  
 Reviewer for the International Symposium on Information Theory (ISIT) 2004.  
 Reviewer for the 2003 Multiconference on Computational Engineering in Systems Applications (CESA) 2003.  
 Reviewer for invited session proposals for the 2012 American Control Conference (ACC) 2012.  
 Reviewer for invited session proposals for the 47th IEEE Conference on Decision and Control (CDC) 2008.  
 Reviewer for invited session proposals for the 42nd IEEE Conference on Decision and Control (CDC) 2003).
- SERVICE  
Book  
Reviewing*
- Associate Editor for selected chapters of the C4C book “Coordination Control of Distributed Systems” (Edited by Jan H. van Schuppen and Tiziano Villa), Springer, Series Lecture Notes in Control and Information Sciences, vol. 456, 2015.  
 Guest Associate Editor for selected chapters of the DISC book “Control of Discrete-Event Systems,” edited by Jan H. van Schuppen, Springer, Germany, 2013.  
 Reviewer for selected chapters of the C4C book (edited by Jan H. van Schuppen), August 2013.  
 Reviewer of chapter proposals for a book on “Formal Methods in Manufacturing Systems,” edited by Javier Campos, Carla Seatzu, and Xiaolan Xie.  
 Reviewer of book proposals for CRC Press, Taylor and Francis Group (February 2012).  
 Reviewer of book proposals for Global Engineering Program at Cengage Learning (February 2010).  
 Reviewer of book proposals for Springer (June 2008).  
 Reviewer of book chapters for Wiley (December 2007).  
 Reviewer of books for McGraw Hill (December 2006).  
 Reviewer of books for Morgan-Kaufmann (June 2006).  
 Reviewer of book proposals for Elsevier Science (March 2006).  
 Reviewer of the Handbook of Computer Networks (March 2006).  
 Reviewer of proposals for Cambridge University Press (November 2004).

## Christoforos N. Hadjicostis

SERVICE  
Review  
Panels  
(continues)

Served on a three-member evaluation panel for proposals submitted to the National Authority for Scientific Research in Romania for the establishment of research centers in the area of “Smart Specialization and Health” (January 12–13, 2016).

Expert Remote Reviewer for a scientific proposal submitted to the ERC Advanced Grant Program of the European Research Council (November 2015).

Panelist on “Event based systems in 2020: Analysis and forecast,” 1st European Experts’ Workshop on Event Based Systems, Krakov, Poland (June 2015).

Substitute external member of the Evaluation Committee for the promotion of a faculty member in the Department of Electronic Engineering of the Technological Educational Institute (TEI) of Thessaloniki (January 2015).

Reviewer for proposals submitted for the *FCT Investigator Grant* to the Portuguese Foundation for Science and Technology (FCT) (October 2014).

Reviewer for proposals submitted for the *FCT R&D Unit Evaluation* to the Portuguese Foundation for Science and Technology (FCT) (April 2014).

Reviewer for proposals submitted for the *FCT Investigator Grant* to the Portuguese Foundation for Science and Technology (FCT) (October 2013).

Reviewer for a proposal submitted to the Netherlands Organization for Scientific Research (NWO) for the for the NWO-DST Smart Grid round (September 2013).

Served, at the request of the University of Manchester, UK, as external adviser for a proposal for a new MSc course (August 2013).

Panelist for proposals submitted for the *Aristeia 2012* Program of the Greek Government (December 2012 and March 2013).

Served as an external member of the Evaluation Committee in the promotion (from Lecturer to Assistant Professor) of a faculty member at the University of Nicosia (January 2013).

Served as substitute external member of the Evaluation Committee for the promotion of a faculty member in the Department of Telecommunication Systems and Networks at the Technological Educational Institute (TEI) of Messolonghi at Nafpaktos (January 2013).

Served as substitute external member of the Evaluation Committee for the promotion of a faculty member in the Department of Automation at the Technological Educational Institute (TEI) of Piraeus (July 2013).

Reviewer for proposals submitted to the Portuguese Foundation for Science and Technology (FCT) in all scientific domains (August 2012).

Served as substitute external member of the Evaluation Committee for the promotion of a faculty member in the Department of Computer Science and Computer Engineering at the Technological Educational Institute (TEI) of Western Macedonia at Kastoria (July 2012).

Reviewer for proposals submitted for the *Cooperation 2011* Program of the Greek Government, Partnerships of Production and Research Institutions in Focused Research and Technology Sectors (March 24, 2012 and December 31, 2011).

Served as a member of an External Committee, under the auspices of the Hellenic Quality Assurance Agency of Higher Education (HQAA) in Greece, to evaluate the Department of Electrical Engineering of the Technological Educational Institute (TEI) at Kavalla (March 26-30, 2012).

Served as an external member of the Evaluation Committee in the promotions (from Lecturer to Assistant Professor) of three faculty members at Frederick University (January 26, 2012).

Served as a member of an External Committee, under the auspices of the Hellenic Quality Assurance Agency of Higher Education (HQAA) in Greece, to evaluate the Department of Electrical Engineering of the Technological Educational Institute (TEI) of Western Macedonia at Kozani (December 5-8, 2011).

## Christoforos N. Hadjicostis

SERVICE  
Review  
Panels  
(continued)

Reviewer for proposals submitted for the Thalys (Phase II) Program of the Greek Government on Enhancement of Interdisciplinary or/and Interdepartmental Research and Innovation with the Prospect for Recruitment of High-Level Researchers from Abroad via the Implementation of Basic and Applied High-Quality Research (August 31, 2011).

Reviewer for proposals submitted for the Archimedes III (Phase II) Program of the Greek Government on Enhancement of Research Groups at the Technological Educational Institutes of Greece (August 27, 2011).

Served on an NSF Review Panel for the Cyber-Physical Systems Program of the ECCS Division of the Directorate of Engineering (July 18–19, 2011).

Provided, at the request of the Department of Electrical Engineering and Computer Science at University of California at Berkeley, an evaluation of a faculty candidate for the department (April 27, 2011).

Reviewer for proposals submitted for the Thalys Program of the Greek Government on Enhancement of Interdisciplinary or/and Interdepartmental Research and Innovation with the Prospect for Recruitment of High-Level Researchers from Abroad via the Implementation of Basic and Applied High-Quality Research (February 25, 2011).

Served on an assessment panel to evaluate proposals, submitted to the Ministry for Education, Life Long Learning, and Religious Affairs in Greece, for research leading to a doctoral degree in the areas of Engineering, Computer Sciences, and Communication Engineering (November 10, 2010).

Served as a member of an External Committee, under the auspices of the Hellenic Quality Assurance Agency of Higher Education (HQAA) in Greece, to evaluate the Department of Telecommunications and Networks of the Technological Educational Institute (TEI) of Messolonghi at Nafpaktos (April 26–30, 2010).

Performed, at the request of the School of Electrical and Electronic Engineering at Nanyang Technological University, Singapore, an assessment of faculty candidates for the school (February 24, 2010).

Served on an evaluation panel for proposals submitted to the National Authority for Scientific Research in Romania for research in the area of Energy Systems (October 12–13, 2009).

Invited to serve on an NSF Review Panel for CAREER proposals submitted to the Integrative, Hybrid and Complex Systems (IHCS) program in the National Science Foundation's Division of Electrical, Communications and Cyber Systems (ECCS); did not participate due to other commitments.

Performed an individual review for a research proposal submitted to the Department of Defense Experimental Program to Stimulate Competitive Research (DEPSCoR) Program in South Carolina (June 30, 2008).

Served on evaluation panels for proposals submitted to the National Authority for Scientific Research in Romania for the establishment of National Research Centers in Romania (May 26–28, 2008).

Served on the NSF Electrical Engineering Review Panel for the National Science Foundation Graduate Research Fellowship Program (February 1–3, 2007).

Served on an NSF Review Panel for the Power, Control, and Adaptive Networks Program of the ECS Division of the Directorate of Engineering (June 8–9, 2006).

Performed an ad-hoc review for the NSF Cyber Trust Program (July 2004).

Served on an NSF Review Panel for the CPA Cluster of the CCF (Computing and Communication Foundations) Division of CISE (Computer and Information Science and Engineering) Directorate of NSF (May 3, 2004).

Served on an NSF Review Panel for the NSF Core Program (Unsolicited Proposals) of Control, Networks and Computational Intelligence (CNCI) and Integrative Systems (IS) of the ECS Division of NSF (January 26–27, 2004).

## Christoforos N. Hadjicostis

SERVICE  
Program  
Committees  
(continues)

Serves on the Program Committee for the 2016 IEEE Conference on Automation Science and Engineering (CASE 2016).

Serves on the Program Committee of the 55th IEEE Conference on Decision and Control (CDC 2016). Serves on the Technical Program Committee for Track 4: “Automated Manufacturing Systems” at the 21st IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2016).

Served as Associate Editor at Large for the 55th IEEE Conference on Decision and Control (CDC 2016).

Served on the Program Committee for the 6th IFAC Workshop on Distributed Estimation and Control of Networked Systems (NecSys 2016).

Served on the International Program Committee of the 24th Mediterranean Conference on Control and Automation (MED 2016).

Served on the Program Committee for the 13th International Workshop on Discrete Event Systems (WODES 2016).

Served on the Program Committee for the 2015 IEEE Conference on Automation Science and Engineering (CASE 2015).

Served on the International Program Committee of the 23rd Mediterranean Conference on Control and Automation (MED 2015).

Served on the Program Committee for the Workshop on Dependable Control of Discrete Systems (DCDS 2015), Cancun, Mexico, May 27-29, 2015.

Served on the Technical Program Committee for Track 4: “Automated Manufacturing Systems” at the 19th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2014).

Served on the Program Committee for the 12th International Workshop on Discrete Event Systems (WODES 2014).

Served on the Technical Program Committee for the 4th IEEE International Conference on Smart Grid Communications (IEEE SmartGridComm 2013, Symposium on Architectures and Models for the Smart Grid).

Served on the Technical Program Committee for Track 4: “Automated Manufacturing Systems” at the 18th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2013).

Served on the International Program Committee of the 4th IFAC workshop on Dependable Control of Discrete Systems (DCDS 2013).

Served on the Program Committee of the 21st Mediterranean Conference on Control and Automation (MED 2013).

Served on the Technical Program Committee for Track 4: “Automated Manufacturing Systems” at the 17th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2012).

Served on the Technical Program Committee for the 3rd IEEE International Conference on Smart Grid Communications (IEEE SmartGridComm 2012, Symposium on Architectures and Models for the Smart Grid).

Served on the Program Committee of the 51st IEEE Conference on Decision and Control (CDC 2012).

Served on the Program Committee for the 11th International Workshop on Discrete Event Systems (WODES 2012).

Served on the International Program Committee for the 2012 IFAC Conference on Analysis and Design of Hybrid Systems (ADHS 2012).

Served on the Program Committee of the 20th Mediterranean Conference on Control and Automation (MED 2012).

Served on a three-member Award Committee for the Best Student Paper presented at the 7th IEEE International Conference on Automation Science and Engineering (CASE 2011).

## Christoforos N. Hadjicostis

*SERVICE  
Program  
Committees  
(continued)*

Served on the Technical Program Committee for the 2nd IEEE International Conference on Smart Grid Communications (IEEE SmartGridComm 2011, Symposium on Architectures and Models for the Smart Grid).

Served on the Program Committee of the 2011 Joint IEEE Conference on Decision and Control and European Control Conference (CDC/ECC 2011).

Served as Publications Chair for the 7th IEEE International Conference on Automation Science and Engineering (CASE 2011).

Served as a Technical Adjoint Editor for the 18th IFAC World Congress (IFAC 2011).

Served on the Program Committee for the 3rd IFAC Workshop on Dependable Control of Discrete Systems (DCDS 2011).

Served on the Program Committee of the 19th Mediterranean Conference on Control and Automation (MED 2011).

Served on the Program Committee for the 10th International Workshop on Discrete Event Systems (WODES 2010).

Served as Publication Co-Chair for the 4th International Symposium on Communication, Control and Signal Processing (ISCCS 2010).

Served on the National Organizing Committee for the 19th International Conference of Artificial Neural Networks (ICANN 2009).

Served on the Program Committee for the 2009 IEEE Conference on Automation Science and Engineering (CASE 2009).

Served on the Program Committee for the 2nd IFAC Workshop on Dependable Control of Discrete Systems (DCDS 2009).

Served on the Technical Program Committee for the 2009 Workshop on Control over Communication Channels (ConCom 2009).

Served on the Technical Program Committee for the 2009 Information Theory Workshop on Networking and Information Theory (ITW 2009).

Served on the Program Committee of the 17th Mediterranean Conference on Control and Automation (MED 2009).

Served on the Program Committee of the Second International Conference on Networked Robots (ROBOCOMM 2009).

Served on the Organizing Committee for the NSF Workshop on Distributed Communication, Sensing and Control, Yale University, November 2008.

Served on the Program Committee of the 47th IEEE Conference on Decision and Control (CDC 2008).

Served as Editor for the area of Agents and Autonomous Systems for the 47th IEEE Conference on Decision and Control (CDC 2008).

Served on the Program Committee for the 19th International Workshop on Principles of Diagnosis (DX-08).

Served on the Program Committee of the First International Conference on Networked Robots (ROBOCOMM 2007).

Served on the Program Committee for the 18th International Workshop on Principles of Diagnosis (DX-07).

Served on the Program Committee for the 8th International Workshop on Discrete Event Systems (WODES 2006).

Served on the Program Committee of the 2006 IEEE International Conference on Networking, Sensing and Control (ICNSC 2006).

Served on the Program Committee for the 2005 Joint IEEE Conference on Decision and Control and European Control Conference (CDC/ECC 2005).

Served on the Organizing Committee and as the Vice Program Chair for Invited Papers for the 13th Mediterranean Conference on Control and Automation (MED 2005).

Served on the Program Committee of the 41st IEEE Conference on Decision and Control (CDC 2002).



## Christoforos N. Hadjicostis

SERVICE  
Conference  
Session Or-  
ganization  
and  
Chairing  
(continues)

Co-organized two invited sessions on “Discrete Event and Hybrid Systems and their Automation” during the 12th Conference on Automation Science and Engineering (CASE 2016), August 2016.

Organized and chaired two invited sessions on “Security and Opacity in Discrete Event Systems: Verification and Quantification” and “Security and Opacity in Discrete Event Systems: Prevention and Enforcement” during the 13th International Workshop on Discrete Event Systems (WODES 2016), May-June, 2016.

Co-chaired a session on “Power Systems I” during the 54th IEEE Conference on Decision and Control (CDC 2015), December 2015.

Co-chaired a session on “Agents-Based Systems III” during the 54th IEEE Conference on Decision and Control (CDC 2015), December 2015.

Co-organized and co-chaired an invited session on “Modeling, Performance Analysis, and Optimization of Discrete Event Systems” during the 11th annual IEEE International Conference on Automation Science and Engineering (CASE 2015), August 2015.

Co-organized and co-chaired an invited session on “Logic Control and Diagnosis of Discrete Event Systems” during the 11th annual IEEE International Conference on Automation Science and Engineering (CASE 2015), August 2015.

Chaired an invited session with Christos Cassandras as a plenary speaker at the First International Conference on Event-Based Control, Communication, and Signal Processing, June 2015.

Co-organized and co-chaired an invited session on “Coordination and Consensus Algorithms in Distributed Control Systems” during the 53rd IEEE Conference on Decision and Control (CDC 2014), December 2014.

Co-chaired a session on “Model Reduction II” during the 53rd IEEE Conference on Decision and Control (CDC 2014), December 2014.

Chaired a session on “Consensus I” during the 53rd IEEE Conference on Decision and Control (CDC 2014), December 2014.

Co-chaired a session on “Supervisory Control. Application to Manufacturing Systems and Robot Planning” during the 19th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2014), September 2014.

Chaired a session on “Special Session on Recent Advances in Control and Applications II” during the 6th International Symposium on Communications, Control, and Signal Processing (ISCCSP 2014), May 2014.

Co-Chaired a session on “Observability of DES” during the 12th International Workshop on Discrete Event Systems (WODES 2014), May 2014.

Co-organized and co-chaired an invited session on the “Modeling, Coordination and Consensus Agreement in Multi-Component Systems: Part A Theory” during the 52nd IEEE Conference on Decision and Control (CDC 2013), December 2013.

Co-organized and co-chaired an invited session on “Modeling, Coordination and Consensus Agreement in Multi-Component Systems: Part B Applications” during the 52nd IEEE Conference on Decision and Control (CDC 2013), December 2013.

Chaired a session on “Networks and Consensus” during the 2013 European Control Conference (ECC 2013), July 2013.

Co-chaired a session on “Consensus Control II” during the 2013 European Control Conference (ECC 2013), July 2013.

Co-Chaired a session on “Agents and Autonomous Systems I” during the 51st IEEE Conference on Decision and Control (CDC 2012), December 2012.

Chaired a session on “Networked Systems and Control, and Applications” during the 50th Allerton Conference on Control, Communications and Computing (Allerton 2012), October 2012.

Chaired a session on “Fault-tolerant control of networked and distributed systems I” during 8th IFAC Symposium on Fault Detection, Supervision and Safety for Technical Processes (SAFEPROCESS 2012), August–September 2012.

## Christoforos N. Hadjicostis

SERVICE  
Conference  
Session Or-  
ganization  
and  
Chairing  
(continues)

Co-Chaired a session on “Agents and Autonomous Systems II” during the 50th IEEE Conference on Decision and Control and European Control Conference (CDC/ECC 2011), December 2011.

Chaired a session on “Machine Learning” during the 7th International Conference on Automation Science and Engineering (CASE 2011), August 2011.

Chaired a session on “Fault Diagnosis” during the 49th Conference on Decision and Control (CDC 2010), December 2010.

Co-Chaired an invited session on “Diagnosis and Diagnosability of Discrete Event Systems” (organized by Maria Paola Cabasino and Moamar Sayed Mouchaweh) at the 10th International Workshop on Discrete Event Systems (WODES 2010), August–September 2010.

Chaired a session on “Supervisory Control and Automata” during the 48th Conference on Decision and Control (CDC 2009), December 2009.

Chaired a session on “Test and Diagnosis for Dependability Improvement” during the 2nd IFAC Workshop on Dependable Control of Discrete Systems (DCDS 2009), June 2009.

Chaired a session on “Distributed Computation, Control, and Estimation” during the 47th Conference on Decision and Control (CDC 2008), December 2008.

Chaired a session on “Agent-Based Systems” during the 2008 American Control Conference (ACC 2008), June 2008.

Chaired a session on “Robustness and Security of Networks” during the 46th Conference on Decision and Control (CDC 2007), December 2007.

Co-organized an invited session on “Multi-Agent Control, Coordination, and Navigation over Networks” during the 2007 Allerton Conference, September 2007.

Chaired a session on “Consensus” during the 2007 American Control Conference (ACC 2007), July 2007.

Chaired a session on “Fault Detection/Accommodation” during the 2007 European Control Conference (ECC 2007), July 2007.

Co-organized invited sessions on “State Estimation and Identification of Discrete Event Systems” and “State Estimation of Hybrid Systems” during the First IFAC Workshop on Dependable Control of Discrete Systems (DCDS 2007), June 2007.

Chaired a session on “Filtering” during the 45th IEEE Conference on Decision and Control (CDC 2006), December 2006.

Organized an invited session on “Communication, Feedback and Rate Distortion” during the 2006 Allerton Conference, September 2006.

Chaired a session on “Fault Detection” during the 2006 American Control Conference (ACC 2006), June 2006.

Chaired a session on “Observers for Linear Systems” during the 2005 Joint IEEE Conference on Decision and Control and the European Control Conference (CDC/ECC 2005), December 2005.

Organized and co-chaired invited sessions on the “Confluence of Information, Communication and Control” and “Distributed Estimation, Detection and Diagnosis” during the 2005 Allerton Conference, September 2005.

Chaired a session on “Fault Diagnosis Applications” during the 43rd IEEE Conference on Decision and Control (CDC 2004), December 2004.

Organized and co-chaired an invited session on “Fault Diagnosis and Tolerance” during the 2004 Allerton Conference, September 2004.

Chaired a session on “Applications of Fault Detection” during the 2004 American Control Conference (ACC 2004), July 2004.

Chaired a session on “Identification” during the 42nd IEEE Conference on Decision and Control (CDC 2003), December 2003.

Organized and chaired an invited session on “Fault Diagnosis in Discrete Event Systems” during the 41st IEEE Conference on Decision and Control (CDC 2002), December 2002.

## Christoforos N. Hadjicostis

SERVICE  
Conference  
Session Or-  
ganization  
and  
Chairing  
(continued)

Organized and chaired an invited session on “Networked Control Systems” during the 41st IEEE Conference on Decision and Control (CDC 2002), December 2002.

Organized and chaired an invited session on “Monitoring and Fault Diagnosis in Complex Systems and Networks” during the 2001 Allerton Conference, October 2001.

Chaired a session on “Iterative Coding Techniques” during the 2001 Allerton Conference, October 2001.

Organized and chaired an invited session on “Monitoring/Testing of Systems and Networks” during the 2000 Allerton Conference, October 2000.

Chaired a session on “Computation” during the 8th IEEE Mediterranean Conference on Control and Automation (MED 2000), July 2000.

Chaired a session on “Linear Systems” during the 5th Mediterranean Conference on Control and Systems (MED 1997), July 1997.

SERVICE  
Research  
Workshops  
(continues)

Co-organized a workshop on “Recent Engineering Advances in Cyber-Physical Systems, Advanced Materials for Energy Applications, and Water/Wastewater/Environmental Management Systems” between the School of Engineering at the University of Cyprus and the College of Engineering at Texas A&M University, Limassol, May 2016.

Participated in the Workshop on “Control and Adaptation: A 30-Year Journey” in celebration of Dr. P. Ioannou 60th birthday, Larnaca, Cyprus, June 24, 2013.

Participated in the Workshop on “Decision, Dynamics and Control in Multi-Agent Systems,” University of California at Santa Barbara, June 24, 2011.

Participated in the Workshop on the “ $10\pi$  Celebration for George Verghese,” MIT, Cambridge, USA, May 22, 2010.

Participated in the First IntelliCIS Workshop as part of IntelliCIS Action IC0806, Limassol, Cyprus (September 16–17, 2009).

Participated in the “Robust Systems Engineering Workshop,” Brussels, April 27, 2009.

Participated in the retreat of the Information Trust Institute, UIUC (May 3, 2007).

Participated in the Workshop on “Games, Teams and Decisions,” Coordinated Science Laboratory, UIUC (September 30, 2006).

Participated in the Workshop on Stochastic Networks, Coordinated Science Laboratory, UIUC (June 19–24, 2006).

Participated in the NSF Grantees Workshop on Electric Power Networks Efficiency and Security (EP-NES), Orlando, FL (December 4–6, 2005).

Participated in the Information Trust Institute Workshop on Dependability and Security: Opportunities and Challenges in Building an Overarching Community, Coordinated Science Laboratory, UIUC (December 3, 2004).

Participated in the Office of Naval Research (ONR) “DIAS Program Review,” Applied Physics Laboratory, John Hopkins University, Columbia, MD (August 10, 2004).

Participated in the NSF Grantees Workshop for Information Technology Research, Washington, DC (June 9–11, 2004).

Participated in the NSF Grantees Workshop on Electric Power Networks Efficiency and Security (EP-NES), Washington, DC (October 23–24, 2003).

Participated in the Workshop on Future Directions in Nonlinear Control of Mechanical Systems, Coordinated Science Laboratory, UIUC (October 4, 2003).

Participated in the NSF Grantees Workshop on Wireless Networked Sensor and Actuator Systems, UCLA, Los Angeles, CA (September 8–9, 2003).

## Christoforos N. Hadjicostis

### SERVICE Research Workshops (continued)

Participated in the Office of Naval Research (ONR) Control Challenge Collaborative Technical Kickoff, Naval Academy, Annapolis, MD (November 2002).

Participated in the Workshop on Advances in Systems, Control and Games, Coordinated Science Laboratory, UIUC (September 7, 2002).

Participated in Air Force Office of Scientific Research (AFOSR) Workshop, Wright-Peterson AFB, Dayton, OH (August 2001).

Participated in the Midwest Workshop on Arithmetical Geometry in Cryptography, Coordinated Science Laboratory, UIUC (November 2–4, 2001).

Participated in the Workshop on Advances in System Theory, Boston, MA (October 15–16, 1999).

Participated in the Workshop on Advances in Systems and Control, Coordinated Science Laboratory, UIUC (September 25, 1999).

### SERVICE Teaching Workshops and Panels

Serves on a National Committee for evaluating courses and diplomas for the Cyprus Council for the Recognition of Higher Education Qualifications (KYSATS) in Electrical and Computer Engineering, January 2015–Present.

Participated in the workshop on “The Good Researcher is also a Good Teacher” by Professor Andrew P. Dove, Professor of Chemistry, Department of Chemistry, University of Warwick, held at the University of Cyprus (November 2015).

Served on a National Committee for evaluating courses and diplomas for the Cyprus Council for the Recognition of Higher Education Qualifications (KYSATS) in Computer Engineering, July 2012–December 2014.

Served on a National Committee for evaluating courses and diplomas for the Cyprus Council for the Recognition of Higher Education Qualifications (KYSATS) in Engineering, Jan. 2011–June 2012.

Served on a National Committee that reported to the Ministers of Education and Labor on post-lyceum educational options in Cyprus (2008).

Participated in the 2007 UIUC Faculty Retreat on Active Learning (“Learning from Student Voices: Why their Outside Lives Matter Inside the Class”), UIUC (February 9, 2007).

Participated in the 2006 UIUC Faculty Retreat, UIUC (February 10, 2006).

Performed, at the request of the ECE Department, a peer evaluation of the teaching of a faculty member nominated for the ECE Faculty Outstanding Teaching Award, UIUC (Spring 2004).

Participated in the Workshop on “Effective Teaching” by Dr. P. Wankat, UIUC (January 29, 2004).

Participated in the Computer Engineering Faculty Retreat, ECE, UIUC (February 15, 2003).

Participated in the Scholar’s Day Activities, UIUC (December 1, 2001).

Organized graduate student recruitment activities for the Control area, Coordinated Science Laboratory, UIUC (October 8–9, 2001).

Participated in ECE Department Retreat, ECE, UIUC (May 15, 2001).

Participated in the Workshop on “Mentoring Students: Faculty Roles in Enhancing Student Development,” UIUC (March 24, 2001).

Participated in the faculty development activity “A Workshop for Assistant Professors,” UIUC (March 23–24, 2001).

Interviewed prospective graduate students, UIUC (Spring 2001).

Interviewed prospective minority graduate students, UIUC (Fall 2000).

Participated in the College of Engineering Teaching College, UIUC (Fall 2000–Spring 2001).

Participated in the Workshop on “Effective Teaching” by Dr. Richard Felder and Dr. Rebecca Brent, UIUC (October 2000).

Participated in the Computer Engineering Faculty Retreat, ECE, UIUC (March 4, 2000).

Participated in the Workshop on “Active and Cooperative Learning,” UIUC (February 10, 2000).

## Christoforos N. Hadjicostis

*University  
Experience  
and Service  
(continues)*

Serves as member of a Hiring Committee for a position at the rank of Assistant Professor or Lecturer in the ECE Department in the field of Computer Engineering, UCY (2016–Present).

Co-organized a workshop on “Recent Engineering Advances in Cyber-Physical Systems, Advanced Materials for Energy Applications, and Water/Wastewater/Environmental Management Systems” between the School of Engineering at the University of Cyprus and the College of Engineering at Texas A&M University, Limassol, May 2016.

Served as member of a Hiring Committee for a position at the rank of Assistant Professor or Lecturer in the ECE Department in the field of Computer Engineering, UCY (2014–2016).

Serves as Chair of the Hiring Committee for the Director of the Energy Research Center at the University of Cyprus, January 2015–Present.

Serves as Dean of the School of Engineering, 2014–Present.

Participated in a University of Cyprus administrative workshop to define the future strategic goals of the University, UCY (November 2015).

Member of the Undergraduate Committee of the ECE Department at the University of Cyprus, 2013–2014.

Serves as a Member of the Board of the Energy Research Center at the University of Cyprus, November 2013–Present.

Serves as a Member of the Academic Council of the Energy Research Center at the University of Cyprus, November 2013–Present.

Served as Chair of the promotion committee for Assistant Professor Elias Kyriakides in the Department of ECE, University of Cyprus, 2013–2015.

Served as a member of the Senate Committee on Information Systems at the University of Cyprus, 2013–2014.

Elected member of the School of Engineering Council as a representative of the ECE Department, 2013–2014.

Erasmus representative of the ECE Department at the University of Cyprus, 2013–2014.

Chair of the Undergraduate Committee of the ECE Department at the University of Cyprus, 2013–2014.

Served as a member of the Ad-Hoc Committee for the University Website Design, University of Cyprus (2011–2013).

Served as Chair of a Hiring Committee for a position at the rank of Assistant Professor or Lecturer in the ECE Department in the field of Computer Engineering, UCY (July 2011–September 2012).

Served as Chair of a Hiring Committee for a position at the rank of Assistant Professor or Lecturer in the ECE Department in the fields of Electronics, Electromagnetism, Antennas and Photonics, UCY (January 2012–April 2012).

Elected member of the Senate as a representative for the School of Engineering, UCY (December 2009–December 2011).

Elected member of the Senate Research Committee, UCY (March 2009–March 2011).

Elected (twice) Chair of the ECE Department, UCY (February 2008–September 2010).

Served as Chair of the Hiring Committee for a position at the rank of Assistant Professor or Lecturer in the ECE Department in the field of Computer Engineering, UCY (September 2009–August 2010).

Served as member of the Hiring Committee for a position at the rank of Assistant Professor or Lecturer in the ECE Department in the field of Microelectronics and Microwaves, UCY (September 2009–March 2010).

Guided the Department of Electrical and Computer Engineering at the University of Cyprus through its first evaluation in December 2008 (External Committee members consisted of John Tsitsiklis (MIT, Chair), Andreas Cangellaris (University of Illinois), Israel Cidon (Technion), Bo Wahlberg (KTH)).

Served on the ECE Graduate Committee, UCY (September 2008–September 2012).

Served on the Evaluation Committee of the ECE Department, UCY (August 2007–December 2008).

## Christoforos N. Hadjicostis

*University  
Experience  
and Service  
(continued)*

Served as member of the Hiring Committee for a position at the rank of Assistant Professor or Lecturer in the ECE Department in the fields of Digital Signal and Image Processing or/and Biomedical Engineering, UCY (May 12–13, 2008).

Served as Chair of the Hiring Committee for a position at the rank of Assistant Professor or Lecturer in the ECE Department in the field of Computer Engineering (all disciplines), UCY (May 15–16, 2008). Served as the ECE Department representative in the College of Engineering Subcommittee to evaluate course outlines for new/revised/discontinued courses in the area of Communications, UIUC (June 2007–December 2007).

Served on the ECE Graduate Committee, UIUC (Fall 2006–August 2007).

Qualifying Exam Committee Representative for Control Area in the ECE Department at UIUC (September 2005–August 2007 and January 2000–September 2001); developed one of two control questions in the qualifying exams for Fall 2005, Spring 2003, Fall 2000, Spring 2000 and Fall 1999; graded and evaluated results.

Nominated member of the College of Engineering Library Committee, UIUC (Fall 2004–August 2007). ECE Teaching Evaluation and Awards Committee, UIUC (Fall 2003–August 2007).

Coordinated Science Laboratory Distinguished Visitor Committee, UIUC (Fall 2003–August 2007).

Communications and Control Area Committee, ECE, UIUC (Fall 2000–August 2007).

Elected member of the CSL Policy and Planning Committee, UIUC (Spring 2004–Spring 2006); representative of the Control and Communications Areas.

ECE Fellowship Committee, UIUC (Fall 2002–Summer 2005).

Elected member of the ECE Advisory Committee, UIUC (Fall 2003–August 2004); served as representative of assistant professors in the committee.

Represented the Control and Communications areas in the ECE Advising Fair, UIUC (April 2, 2003).

Invited speakers for the ECE Graduate Seminar, UIUC (Spring 2000–August 2007); served as Chair of Graduate Seminar Committee, UIUC (January 2001–September 2002).

ECE Graduate Recruitment Committee, UIUC (Fall 2000–Summer 2002).

ECE Student Records, Re-Admissions and Petitions Committee, UIUC (Fall 1999–August 2001).

Coordinated Science Laboratory Awards Committee, UIUC (Fall 2000–August 2001).

Worked in a team to develop a calculus question for the Preliminary Written Exam for doctoral students, MIT; assisted in grading and evaluation MIT (January–February, 1996).

Organized volunteer and social activities as president of the Eta Kappa Nu Electrical and Computer Engineering honor society, MIT (Spring 1994).

Worked on enhancing the quality of audio recordings by the late Dr. Feynman, MIT (Fall 1993–Spring 1994).

## Christoforos N. Hadjicostis

*PhD Thesis  
Committees  
(continues)*

Rajamohana Hegde, UIUC (Thesis: “Reliable and Low-Power Signal Processing via Algorithmic Noise-Tolerance,” Advisor: Prof. Naresh Shanbhag, 2001).

James Melody, UIUC (Thesis: “Inflight Characterization of Aircraft Icing,” Advisor: Prof. Tamer Basar, 2004).

Byonghyo Shim, UIUC (Thesis: “Error-Tolerant Digital Signal Processing,” Advisor: Prof. Naresh Shanbhag, 2004).

Robert Balog, UIUC (Thesis: “Autonomous Local Control in Distributed DC Power Systems,” Advisor: Prof. Phil Krein, 2006).

Paul Kawka, UIUC (Thesis: “Controller Analysis and Synthesis for Wireless Servo Systems,” Advisor: Prof. Andrew Alleyne, 2006).

Serdar Yuksel, UIUC (Thesis: “Transmission of Information in Control Systems,” Advisor: Prof. Tamer Basar, 2006).

Jaesoo Byoun, UIUC (Thesis: “Analysis and IC Implementation of Digitally Controlled Multi-Port DC-DC Converters,” Advisor: Prof. Patrick Chapman, 2006).

Kai Zheng, UIUC (Thesis: “Steady-State Bumpless Transfer under Controller Uncertainty: Methodology and Applications,” Advisor: Prof. Joseph Bentsman, ME, 2006).

Alexis Kwasinski, UIUC (Thesis: “A Microgrid Architecture with Multiple-Input DC/DC Converter: Applications, Reliability, System Operation, and Control,” Advisor: Prof. Phil Krein, 2007).

Linh Vu, UIUC (Thesis: “Invertibility and Input-to-State Stability of Switched Systems and Applications in Supervisory Control,” Advisor: Prof. Daniel Liberzon, 2007).

Alireza Farhadi, University of Ottawa (Thesis: “Stochastic Control Through Capacity Limited Channels,” Advisors: Prof. Charalambos D. Charalambous and Nasir U. Ahmed, 2007).

Che Lin, UIUC (Thesis: “Multi-Antenna Communications in the Presence of Feedback,” Advisor: Prof. Venu Veeravalli, 2008).

Xiangyu Tang, UIUC (Thesis: “Iterative Algebraic Decoding,” Advisor: Prof. Ralf Koetter, 2008).

Brian Raczkowski, UIUC (Thesis: “Identification of Critical Lines for Power System Operational Reliability Assessment,” Advisor: Prof. Peter Sauer, 2008).

Stelios Neofytou, UCY (Thesis: “High Quality Test Generation for Various Applications in Digital Systems Test,” Advisor: Prof. Maria Michael, 2009).

Michalis Michaelides, UCY (Thesis: “Distributed Event Detection and Localization in Wireless Sensor Networks,” Advisor: Prof. Christos Panayiotou, 2009).

Michalis Markou, UCY (Thesis: “QoS Provisioning in Queueing Networks: A Perturbation Analysis of Stochastic Fluid Models Approach,” Advisor: Prof. Christos Panayiotou, 2009).

Yannis Socratous, UCY (Thesis: “Generalized Robust Estimation for a Class of Systems,” Advisor: Prof. Charalambos D. Charalambous, 2010).

Panayiotis Panagi, UCY (Proposal Title: “Distributed Control and Fault Diagnosis for Interconnected Systems,” Advisor: Prof. Marios Polycarpou, Other Committee Members: Christos Panayiotou, July 2010).

Antonis Vakis, UIUC (Thesis: “Nanoscale Interface Mechanics with Application to Magnetic Storage,” Advisor: Prof. Andreas Polycarpou, November 2011).

Theofanis Lambrou, UCY (Thesis: “Collaborative Area Monitoring Using Wireless Sensor Networks with Stationary and Mobile Nodes,” Advisor: Prof. Christos Panayiotou, May 2011).

Ioanna Ioannou, UCY (Thesis: “Outage and Ergodic Capacity for a Class of Channels,” Advisor: Prof. Charalambos Charalambous, January 2013).

Shuo Zhang, University of Groninger (Thesis: “Analyzing Network Dynamics through Graph Partitioning,” Advisor: Ming Cao (K. Camlibel), February 2014).

Christos Kourtellaris, UCY (Thesis: “Nonanticipative Information Theory,” Advisor: Prof. Charalambos D. Charalambous, March 2014).

Christos Laoudias, UCY (Thesis: “Localization and Tracking in Wireless Networks for Fault Tolerance and Device Diversity,” Advisor: Prof. Christos Panayiotou, March 2014).

## Christoforos N. Hadjicostis

### *PhD Thesis Committees (continued)*

Christodoulos Keliris, UCY (Thesis: “A Filtering Approach for Fault Diagnosis of Nonlinear Uncertain Systems,” Advisor: Prof. Marios Polycarpou, February 2015).

Anna Sidera, UCY (Thesis: “Design and Analysis of Novel Routing Protocols for Vehicular Delay Tolerant Networks,” Advisors: Profs. Christoforos Hadjicostis and Stavros Toumpis, May 2015).

Ioannis Tzortzis, UCY (Thesis: “Extremum Problems with Total Variation Distance,” Advisor: Prof. Charalambos D. Charalambous, January 2016).

Stanton Cady, UIUC (Thesis: “Architectures and Algorithms for Distributed Generation Control of Microgrids,” Advisor: Prof. Alejandro Dominguez-Garcia, February 2016).

Fotios Stavrou, UCY (Thesis: “Extremum Problems of Directed Information,” Advisor: Prof. Charalambos D. Charalambous, April 2016).

Christoforos Keroglou, UCY (Thesis: “State Estimation in Logical and Stochastic Discrete Event Systems,” Advisor: Prof. Christoforos N. Hadjicostis, June 2016).

Alexandros Nikolaides, UCY (Proposal Title: “Hidden Financial Implications of Net Metering Policies: The Cases of Prosumers and Storsumers,” Advisor: Prof. Charalambos A. Charalambous, July 2016).

### *PhD Students*

Yingquan Wu, UIUC (August 2004, Thesis: “Coding Techniques for Linear Block Codes with Applications to Fault Identification,” Committee Members: Richard Blahut, Ralf Koetter, Pierre Moulin).

Rouzbeh Touri, UIUC (June 2007, Thesis: “Perfect Reconstruction of Digital Transmission through Channels with Bounded Additive Noise,” Committee Members: Tamer Basar, Andrew Singer, Petros Voulgaris).

Eleftheria Athanasopoulou, UIUC (July 2007, Thesis: “Diagnosis of Finite State Models under Partial or Unreliable Observations,” Committee Members: Tamer Basar, William Sanders, R. Sreenivas, R. Srikant).

Georgios Takos, UIUC (July 2007, Thesis: “Sparse Solutions to Structured Underdetermined Systems in the Presence of Small Noise,” Committee Members: Tamer Basar, Yoram Bresler, Ralf Koetter, Petros Voulgaris).

Lingxi Li, UIUC (September 2008, Thesis: “Estimation, Diagnosis, and Control in Discrete Event Systems in the Presence of Observability Constraints and Faults,” Committee Members: Tamer Basar, Olgica Milencovic, R. Sreenivas).

Shreyas Sundaram, UIUC (April 2009, Thesis: “Linear Iterative Strategies for Information Dissemination and Processing in Distributed Systems,” Committee Members: Tamer Basar, P. R. Kumar, Muriel Medard, Nitin Vaidya).

Yu Ru, UIUC (April 2010, Thesis: “State Estimation and Sensor Selection in Discrete Event Systems Modeled by Petri Nets,” Committee Members: Tamer Basar, Daniel Liberzon, R. Sreenivas).

Anooshiravan Saboori, UIUC (June 2010, Thesis: “Verification and Enforcement of State-Based Notions of Opacity in Discrete Event Systems,” Committee Members: Tamer Basar, Todd Coleman, P. R. Kumar, R. Sreenivas).

Tung Le, UIUC (November 2010, Thesis: “Probabilistic Inference via Sum-Product Algorithms on Binary Pairwise Gibbs Random Fields with Applications to Multiple Fault Diagnosis,” Committee Members: Tamer Basar, Venu Veeravalli, Sekhar Tatikonda).

Christoforos Keroglou, UCY (September 2016, Thesis: “State Estimation in Logical and Stochastic Discrete Event Systems,” Committee Members: Charalambos D. Charalambous, Christos Panayiotou, Anna Philippou, Demosthenis Teneketzis).

Nicolas Manitaras, UCY (May 2017, expected).

Apostolos Rikos, UCY (May 2017, expected).

Marios Thoma, UCY (May 2017, expected).

### *Visiting PhD Students*

Monica Clemente, University of Trieste, Spring 2014.



## Christoforos N. Hadjicostis

*Master Students* Boon Pang Lim, UIUC (August 2001)  
 Eleftheria Athanasopoulou, UIUC (December 2002)  
 Brian Kominiarek, UIUC (May 2003)  
 Ashley Llorens, UIUC (May 2003)  
 George Takos, UIUC (August 2003)  
 Tim Ernst, UIUC (August 2004)  
 Jason Bryant, UIUC (August 2004)  
 Shreyas Sundaram, UIUC (September 2005)  
 Tung Le, UIUC (December 2006)  
 Haitao Mo, UIUC (May 2007)  
 George Kourtis, UCY (September 2010)  
 Apostolos Rikos, UCY (June 2012)

*Preliminary and Qualifying Exam Committees* Member of the Committee for the Preliminary Examination of Nikos Freris, UIUC, April 3, 2007. Other committee members: Erhan Kudeki (Chair), Daniel Liberzon.

Member of the Committee for the Preliminary Examination of Hemant Kowshik, UIUC, April 6, 2007. Other committee members: William O'Brian (Chair), Tamer Basar.

Member of the Oral Qualifying Examination Committee for Panayiotis Panayiotou, UCY, December 21, 2007. Other committee members: Marios Polycarpou (Chair), Stavros Toumpis.

Member of the Oral Qualifying Examination Committee for Ioanna Ioannou, UCY, October 14, 2008. Other committee members: Charalambous D. Charalambous (Chair), George Ellinas.

Member of the Oral Qualifying Examination Committee for Andreas Savva, UCY, May 25, 2009 and September 24, 2009. Other committee members: Charis Theocharides (Chair), Maria Michael.

Member of the Oral Qualifying Examination Committee for Fotis Stavrou, UCY, December 6, 2010. Other committee members: Charalambos D. Charalambous (Chair), George Mitsis.

Chair of the Oral Qualifying Examination Committee for Marios Thoma, UCY, December 23, 2011 and June 28, 2012. Other committee members: George Ellinas, George Hadjichristofi.

Member of the Oral Qualifying Examination Committee for Ioannis Tziortzis, UCY, April 25, 2012. Other committee members: Charalambos D. Charalambous (Chair), Themistoklis Charalambous.

Member of the Oral Qualifying Examination Committee for Stavros Hadjitheofanous, UCY, June 28, 2012. Other committee members: Maria Michael (Chair), George Ellinas.

Chair of the Oral Qualifying Examination Committee for Christoforos Keroglou, UCY, December 21, 2012. Other committee members: Manolis Christodoulakis, Giwrgos Mitsis.

Member of the Oral Qualifying Examination Committee for Maria Athanasiadou, UCY, December 6, 2013. Other committee members: Giwrgos Mitsis (Chair), Constantinos Pitris.

Member of the Oral Qualifying Examination Committee for Foivia Nicolaou, UCY, December 16, 2013. Other committee members: Giwrgos Mitsis (Chair), Constantinos Pitris.

Chair of the Oral Qualifying Examination Committee for Apostolos Rikos, UCY, April 24, 2014. Other committee members: Ioannis Krikides, Manolis Christodoulakis.

Chair of the Oral Qualifying Examination Committee for Nicolas Manitaras, UCY, June 6, 2014. Other committee members: Charalambos A. Charalambous, Ioannis Krikides.

Member of the Oral Qualifying Examination Committee for Panayiotis Papadopoulos, UCY, March 3, 2016. Other committee members: Marios Polycarpou (Chair), Giwrgos Mitsis.

Member of the Oral Qualifying Examination Committee for Christodoulos Skouroumounis, UCY, July 5, 2016. Other committee members: Ioannis Krikides (Chair), George Ellinas.

## Christoforos N. Hadjicostis

- Master Thesis Committees* Charalambos Constantinides, UCY (Thesis: “Supervisory and Notification Aggregator Service Enabler in a Fixed Mobile Convergent Architecture,” Advisor: Prof. Charalambos D. Charalambous, Other Committee Members: Vassos Vassiliou, April 30, 2008).  
Nikitas Lambrou, UCY (Thesis: “Power Flow Analysis on Radial Distribution Networks,” Advisors: Profs. Elias Kyriakides and George Ellinas, Other Committee Members: Marios Polycarpou, May 14, 2009).  
Ioannis Tziorgis, UCY (Thesis: “Mathematical Models for Demography and its Applications to the Cyprus Population,” Advisor: Prof. Charalambous D. Charalambous, Other Committee Members: Georgios Mitsis, May 21, 2009).  
Christos Ttofis, UCY (Thesis: “FPGA Design and Implementation of a QAM Modulator on an MPSoC Reconfigurable Platform,” Advisors: T. Theocharides and M. Michael, Other Committee Members: Christos Panayiotou, May 10, 2011).
- Undergraduate Thesis Students* Menelaos Pissarides, UCY; Giwrgos Yiassoumas, UCY; Stavros Aresti, UCY; Apostolos Rikos, UCY; Evgenios Christodoulou, UCY; Savvas Miltiadous, UCY; Giwrgos Katsiolouides, UCY; Panayiotis Hadjicosta, UCY; Xenia Tapaki, UCY; Dimitris Galaktiou; George Georgiou (*Best CE Thesis Award*); Valentinou Pilavakis; Marina Tsagaridou; Marios Christou; Nicolas Georgiou; Giwrgos Mytilinaios; Andreas Paphitis; Anastasia Tsiolakki; Dimitris Dimitriou; Andreas Damianou; Rachel Miltiadou; Panayiota Yorika; Adamos Kalogeris; Nicoletta Hadjicharalambous; Despoina Michailidou; Yiannis Panagi; Constantina Ioannou; Aglaia Eftymiou; Stavros Zacharia; Theofylaktos Fylaktou; Giwrgos Xydias; Elias Theodorou; Anastasis Michael; Margarita Larkou; Maria Savva; Andria Andreou; Stelios Savva; Dimitrakis Nanos
- Undergraduate Students* Akshay Naheta, UIUC; Karim Benjelloun, UIUC; Anthony Fai, UIUC; Samir Majumdar, UIUC; James Ni, UIUC; Roshan Raman, UIUC; Sumanth Kidambi; Sander Parawira, UIUC; Melinos Averkiou, UCY

## Christoforos N. Hadjicostis

- PUBLICATIONS  
*Books*
- C. N. Hadjicostis, *Coding Approaches to Fault Tolerance in Combinational and Dynamic Systems*. Kluwer Academic Publishers, 2002.
- PUBLICATIONS  
*Edited Volumes*
1. A. C. Singer and C. N. Hadjicostis, “Proceedings of the 44th Annual Allerton Conference on Communication, Control, and Computing.” University of Illinois, 2007.
  2. C. N. Hadjicostis and P. Moulin, “Proceedings of the 45th Annual Allerton Conference on Communication, Control, and Computing.” University of Illinois, 2008.
  3. C. N. Hadjicostis, C. Langport, N. Martins, and S. Yuksel, Guest Editorial on Special Issue on “Information Processing and Decision Making in Distributed Control Systems,” *International Journal of Systems, Control and Communications*, vol. 2, nos. 1/2/3, pp. 1–4, 2010.
  4. C. Cassandras, M.-P. Fanti, C. N. Hadjicostis, S. Reveliotis, and C. Seatzu, Guest Editorial for Special Issue on “Advances in Discrete Event Systems for Automation,” *IEEE Transactions on Automation Science and Engineering*, vol. 11, no. 1, pp. 3–5, January 2014.
  5. C. N. Hadjicostis, Zhiyun Lin, and O. Stursberg, Guest Editorial for Special Section on “The IFAC World Congress 2014” for *Nonlinear Analysis: Hybrid Systems* (to appear, vol. 21, pp. 2013-104, August 2016).
- PUBLICATIONS  
*Book Chapters*
1. Anant Agarwal, J. V. Guttag, C. N. Hadjicostis, and M. C. Papaefthymiou, “Memory Assignment for Multiprocessor Caches through Grey Coloring,” *Parallel Architectures and Languages Europe 1994 (Series Lecture Notes in Computer Science, vol. 817)*, pp. 351–363, Springer-Verlag, 1994.
  2. C. N. Hadjicostis and G. C. Verghese, “Monitoring Discrete Event Systems using Petri Net Embeddings,” *Application and Theory of Petri Nets 1999 (Series Lecture Notes in Computer Science, vol. 1639)*, pp. 188–207, Springer-Verlag, 1999.
  3. S. Sundaram and C. N. Hadjicostis, “Non-Concurrent Error Detection and Correction in Switched Linear Controllers,” *Hybrid Systems: Computation and Control 2004 (Series Lecture Notes in Computer Science, vol. 2993)*, pp. 585–599, Springer-Verlag, 2004.
  4. Y. Xiao, C. N. Hadjicostis, and K. Thulasiraman, “The  $d$ -Identifying Codes Problem for Vertex Identification in Graphs: Probabilistic Analysis and an Approximation Algorithm,” *International Computing and Combinatorics Conference 2006 (Series Lecture Notes in Computer Science, vol. 4112)*, pp. 284–298, Springer-Verlag, 2006.
  5. G. Deltas and C. N. Hadjicostis, “Plant Reliability in Monopolies and Duopolies: A Comparison of Market Outcomes with Socially Optimal Levels,” *Economic Market Design and Planning for Electric Power Systems (Edited by James Momoh and Lamine Mili)*, Chapter 6, pp. 113–129, IEEE Press / John Wiley & Sons, 2010.
  6. H. Rodriguez Cortes, A. M. Stankovic, and C. N. Hadjicostis, “Dynamical Models in Fault Tolerant Operation and Control of Energy Processing Systems,” *Operation and Control of Electric Energy Processing Systems (Edited by James Momoh and Lamine Mili)*, Chapter 2, pp. 15-45, IEEE Press / John Wiley & Sons, 2010.
  7. E. Athanasopoulou and C. N. Hadjicostis, “Classification of Hidden Markov Models: Obtaining Bounds on the Probability of Error and Dealing with Possibly Corrupted Observations,” *In Hidden Markov Models, Theory and Applications*, Przemyslaw Dymarski (Ed.) (Available from: <http://www.intechopen.com/articles/show/title/classification-of-hidden-markov-models-obtaining-bounds-on-the-probability-of-error-and-dealing-with>)
  8. A. D. Dominguez-Garcia and C. N. Hadjicostis, “Coordination of Distributed Energy Resources for Provision of Ancillary Services: Architectures and Algorithms,” In *Encyclopedia of Systems and Control* (Edited by Tariq Samad and John Baillieul), Springer, 2015.
  9. C. N. Hadjicostis and A. D. Dominguez-Garcia, “Distributed Average Consensus in Directed Graphs,” In *C4CBook Coordination Control of Distributed Systems* (Edited by Jan H. van Schuppen and Tiziano Villa), Springer, Series Lecture Notes in Control and Information Sciences, vol. 456, 2015.

## Christoforos N. Hadjicostis

PUBLICATIONS  
*Journal*  
 (continues)

1. C. N. Hadjicostis and G. C. Verghese, "Structured Redundancy for Fault Tolerance in LTI State-Space Models and Petri Nets," *Kybernetika*, vol. 35, no. 1, pp. 39–55, January 1999.
2. C. N. Hadjicostis, "Bounds on the Size of Minimal Nonnegative Realizations of Discrete-Time LTI Systems," *Systems and Control Letters*, vol. 37, no. 1, pp. 39–43, 1999.
3. C. N. Hadjicostis and G. C. Verghese, "Power System Monitoring using Petri Net Embeddings," *IEE Proceedings: Generation, Transmission and Distribution*, vol. 147, no. 5, pp. 299–303, September 2000.
4. C. N. Hadjicostis, "On the Complexity of Parallelizing Sequential Circuits using the Parallel Prefix Method," *IEEE Transactions on Circuits and Systems (I)*, vol. 48, no. 10, pp. 1228–1233, October 2001.
5. C. N. Hadjicostis and G. C. Verghese, "Encoded Dynamics for Fault Tolerance in Linear Finite-State Machines," *IEEE Transactions on Automatic Control*, vol. 47, no. 1, pp. 189–192, January 2002.
6. C. N. Hadjicostis and G. C. Verghese, "Fault-Tolerant Computation in Semigroups and Groups: Applications to Automata, Dynamic Systems and Petri Nets," *Journal of the Franklin Institute*, vol. 339, no. 4–5, pp. 387–430, July–August 2002.
7. C. N. Hadjicostis, "Non-Concurrent Error Detection and Correction in Discrete-time LTI Dynamic Systems," *IEEE Transactions on Circuits and Systems (I)*, vol. 50, no. 1, pp. 45–55, January 2003.
8. C. N. Hadjicostis, "Non-Concurrent Error Detection and Correction in Fault-Tolerant Linear Finite State Machines," *IEEE Transactions on Automatic Control*, vol. 48, no. 12, pp. 2133–2140, December 2003.
9. C. N. Hadjicostis, "Periodic and Non-Concurrent Error Detection and Identification in One-Hot Encoded FSMs," *Automatica*, vol. 20, no. 10, pp. 1665–1676, October 2004.
10. C. N. Hadjicostis, "Coding Techniques for Fault-Tolerant Parallel Prefix Computations in Abelian Groups," *The Computer Journal*, vol. 47, no. 3, pp. 329–341, 2004.
11. C. N. Hadjicostis and G. C. Verghese, "Coding Approaches to Fault Tolerance in Linear Dynamic Systems," *IEEE Transactions on Information Theory*, vol. 51, no. 1, pp. 210–228, January 2005.
12. C. N. Hadjicostis, "Finite-State Machine Embeddings for Non-Concurrent Error Detection and Identification," *IEEE Transactions on Automatic Control*, vol. 50, no. 2, pp. 142–153, February 2005.
13. A. J. Llorens and C. N. Hadjicostis, and J. Ni, "Quantization of FIR Filters under a Total Integer Cost Constraint," *IEEE Transactions on Circuits and Systems (II)*, vol. 52, no. 9, pp. 576–580, September 2005.
14. E. Athanasopoulou and C. N. Hadjicostis, "Probabilistic Approaches to Fault Detection in Networked Discrete Event Systems," *IEEE Transactions on Neural Networks*, vol. 16, no. 5, pp. 1042–1052, September 2005 (Special Issue on "Adaptive Learning Systems in Communication Networks," invited).
15. C. N. Hadjicostis, "Aliasing Probability Calculations for Arbitrary Compaction under Independently Selected Random Test Vectors," *IEEE Transactions on Computers*, vol. 54, no. 12, pp. 1614–1627, December 2005.
16. Yingquan Wu and C. N. Hadjicostis, "Algebraic Approaches for Centralized and Distributed Fault Identification in Discrete Event Systems," *IEEE Transactions on Automatic Control*, vol. 50, no. 12, pp. 2048–2053, December 2005.
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