

Petros Xanthopoulos

Assistant Professor

Lockheed Martin Faculty Fellow
Industrial Engineering and Management
Systems Department
College of Engineering and Computer Science
University of Central Florida

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Education

Doctor of Philosophy Industrial and Systems Engineering,
University of Florida, August, 2011.
Thesis Title: Robust Data Mining with Applications to Biomedicine and Engineering.
Advisor: Distinguished Professor Panos M. Pardalos

Master of Science Industrial and Systems Engineering,
University of Florida, May, 2008.

Diploma of Engineering Electronics and Computer Engineering,
Technical University of Crete, Greece, July, 2005.
Advisor: Professor Michalis Zervakis

Appointments

Lockheed Martin Faculty Fellow Industrial Engineering and Management Systems Department,
University of Central Florida, FL USA, 2012-now.

Assistant Professor Industrial Engineering and Management Systems Department,
University of Central Florida, Orlando, FL USA, 2011-now.

Director Advanced IE Computing Laboratory,
Industrial Engineering and Management Systems Department,
University of Central Florida, Orlando FL, USA, 2011-now.

Graduate Research Assistant, Industrial and Systems Engineering,
University of Florida, Gainesville FL, USA, 2006-2011.

Graduate Teaching Assistant, Industrial and Systems Engineering,
University of Florida, Gainesville FL, USA, 2007-2011.

Graduate Research Assistant (Intern)
Department of Neurology,
Malcom Randal Veteran Affairs Hospital, Gainesville FL, USA, 4/2008-8/2008.

Research Assistant
Digital Signal and Image Processing Laboratory (D.I.S.P.L.A.Y.),
Technical University of Crete, Chania, Greece. 2004-2006.

Teaching

Courses taught at UCF

Course Number	Course Title	Credits	Class	Semester	# of students	New Prep	Mean score of Question 16
ESI 5236	Reliability Engineering	3	Grad	Fall 11	22	yes	4.2000
EIN 4517	Systems Engineering	3	Senior	Spring 12	64	yes	N/A

Student advising (PhD)

Talayeh Razzaghi, 2011-current
 Expected graduation: Summer 2013
 Currently supported by seed grant awarded by CECS
Thesis title: TBA

Research

Keywords

Data mining, optimization, machine learning, operations research, networks

Authored Monographs

P. Xanthopoulos, P. M. Pardalos and T. B. Trafalis, authors.
Robust Data Mining
 Springer, 2012 ISBN 978-1-4419-9877-4.

Edited Books

P. M. Pardalos, T. Coleman **P. Xanthopoulos**, editors.
Optimization & Data Analysis in Biomedical Informatics.
 Springer, 2012, ISBN: 978-1-4614-4132-8 (150 pages).

P. M. Pardalos, **P. Xanthopoulos** and M. Zervakis, editors.
Data Mining for Biomarker Discovery.
 Springer, 2012, ISBN: 978-1-4614-2106-1. (283 pages).

W. A. Chaovalitwongse, P.M. Pardalos, and **P. Xanthopoulos**, editors.
Computational Neuroscience.
 Springer, 2010, ISBN: 987-0-38788629-9 (396 pages).

Edited Special Issue

O. Seref, **P. Xanthopoulos**, editors *Data Mining on biomedicine* Special Issue of Journal of Combinatorial Optimization, 17(1), 2009.

Book Chapters

- P. Xanthopoulos** Time series synchronization and its applications to EEG analysis. In *Neuroadaptive Systems: Theory and Applications*, Taylor & Francis, pp. TBA, 2012.
- D. Tovar, E. Cornejo, **P. Xanthopoulos**, M. R. Guarracino and P. M. Pardalos Data Mining in Psychiatric Research. In *Psychiatric Disorders: Methods and Protocols*, Springer, pp. 593– 602, vol 829, 2012.
- P. Xanthopoulos**, A. Arulseivan and P. M. Pardalos A Spectral Clustering Approach for Modeling Connectivity Patterns in Electroencephalogram Sensor Networks. In *Sensors: theory, algorithms and applications*, Springer, pp. 231–242, 2012.
- P. Xanthopoulos**, N. Boyko, N. Fan, and P. M. Pardalos. biclustering: algorithms and applications in data mining and forecasting. In *Encyclopedia of Operations Research and Management Science*, Wiley, 2011, DOI: 10.1002/9780470400531.eorms0105 (6 pages).
- J. Zhang, **P. Xanthopoulos**, V. Tomaino and P. M. Pardalos Minimum Prediction Error models. In *Encyclopedia of Operations Research and Management Science*, Wiley, 2011, DOI: 10.1002/9780470400531.eorms0526 (14 pages).
- I. Radziukyniene, **P. Xanthopoulos** and P. M. Pardalos Combining forecasts. In *Encyclopedia of Operations Research and Management Science*, Wiley, 2011, DOI: 10.1002/9780470400531.eorms0163 (8 pages).
- J.-H. Chen, **P. Xanthopoulos**, V. Tomaino, and P. M. Pardalos. Forecasting non stationary processes. In *Encyclopedia of Operations Research and Management Science*, Wiley, 2011, DOI: 10.1002/9780470400531.eorms0331 (11 pages).
- C.-C. Liu, **P. Xanthopoulos**, V. Tomaino, K. Kobayashi, B. M. Uthman and P. M. Pardalos Antiepileptic Therapy Reduces Coupling Strength Among Brain Cortical Regions in Patients with Unverricht–Lundborg Disease: A Pilot Study. In *Computational Neuroscience*, Springer, pp. 341– 355, 2010.
- P. M. Pardalos, V. A. Yatsenko, A. Messo, A. Chinchuluun and **P. Xanthopoulos** An Optimization Approach for Finding a Spectrum of Lyapunov Exponents. In *Computational neuroscience*, Springer, pp. 285–303, 2010.
- P. Xanthopoulos**. Archimedes and the foundations of industrial engineering. In *Encyclopedia of Optimization*, pages 96–98. Springer, 2009.

Journal Articles

- P. Xanthopoulos**, M. R. Guarracino, P. M. Pardalos Robust Generalized Eigenvalue Classifiers with Ellipsoidal Uncertainty. *Annals of Operations Research* (Revision Submitted).
- L. Rabelo, M. Marin and **P. Xanthopoulos**, C. Arellano Lennox, P. Coiduras, B. Campos, L. Andrade, R. Collins, E. Atencio and D. Pitty Preliminary Hybrid Modeling of the Panama Canal: Operations and Salinity Diffusion *Modelling and Simulation in Engineering* , 2012 Article ID 806139, 9 pages, 2012.
- M. R. Guarracino, **P. Xanthopoulos**, Georgios Pyrgiotakis, V. Tomaino, B. M. Moudgil, P. M. Pardalos Classification of cancer cell death with spectral dimensionality reduction and generalized eigenvalues. *Artificial Intelligence in Medicine* 53(2) pp.119–125, 2011.
- M. B. Fenn, **P. Xanthopoulos**, G. Pyrgiotakis, S. R. Grobmyer, P. M. Pardalos and L. Hench. Raman Spectroscopy for Clinical Oncology *Advances in Optical Technologies* Volume 2011, Article ID 213783, 20 pages, 2011.

- J. Zhang, **P. Xanthopoulos**, C.-C. Liu, S. Bearden, B. M. Uthman, and P. M. Pardalos. Real-time differentiation of nonconvulsive status epilepticus from other encephalopathies using quantitative EEG analysis: A pilot study. *Epilepsia* 21(2) pp. 243-250, 2010.
- A. Chinchuluun, **P. Xanthopoulos**, V. Tomaino, and P. M. Pardalos. Data mining techniques in agricultural and environmental sciences. *International Journal of Agricultural and Environmental Information Systems* 1(1) pp. 26-40, 2010.
- P. M. Pardalos, V. Tomaino, and **P. Xanthopoulos**. Optimization and data mining in biomedicine. *TOP An Official Journal of the Spanish Society of Statistics and Operations Research* 17(2) pp. 215-236 2009.
- P. M. Pardalos, V. Tomaino, and **P. Xanthopoulos**. Rejoinder on: Optimization and data mining in biomedicine. *TOP An Official Journal of the Spanish Society of Statistics and Operations Research* 17(2) pp. 253-255 2009.
- P. Y. Ktonas, S. Golemati, **P. Xanthopoulos**, V. Sakkalis, M. D. Ortigueira, H. Tsekou, M. Zervakis, T. Pappargopoulos, A. Bonakis, N. T. Economou, P. Theodoropoulos, S. G. Papageorgiou, D. Vassilopoulos, and C. R. Soldatos. Time-frequency analysis methods to quantify the time-varying microstructure of sleep EEG spindles: Possibility for dementia biomarkers? *Journal of Neuroscience Methods*, 85(1) pp. 133-142, 2009.
- V. Sakkalis, C. D. Giurcneanu, **P. Xanthopoulos**, M. E Zervakis, V. Tsiaras, Y. Yang, E. Karakonstantaki, and S. Micheloyannis. Assessment of linear and nonlinear synchronization measures for analyzing EEG in a mild epileptic paradigm. *IEEE Trans Inf Technol Biomed*, 13(4):433-441, Jul 2009.
- P. Xanthopoulos**, K. M. Heilman, V. Drago, P. Pardalos, P. S. Foster, and F. M. Skidmore. An ambulatory persistence power curve: motor planning affects ambulatory persistence in parkinson's disease. *Neuroscience Letters*, 448(1):105-109, Dec 2008.
- R. Grech, T. Cassar, J. Muscat, K. P. Camilleri, S. G. Fabri, M. Zervakis, **P. Xanthopoulos**, V. Sakkalis, and B. Vanrumste. Review on solving the inverse problem in EEG source analysis. *Journal of Neuro-engineering and Rehabilitation*, 5:25, 2008. **Highly Accessed Article**.

Refereed Conference Proceedings

- P. Xanthopoulos**, R. De Asmundis, M. R. Guarracino, G. Pyrgiotakis and P. M. Pardalos. Supervised classification methods for mining cell differences as depicted by Raman spectroscopy. *Computational Intelligence Methods for Bioinformatics and Biostatistics, Lecture Notes in Computer Science*, Volume 6685/2011, 112-122, 2011.
- P. Xanthopoulos**, S. Rebennack, C.-C Liu, J. Zhang, G. L. Holmes, B. M. Uthman and P. M. Pardalos. A novel wavelet based algorithm for spike and wave detection in absence epilepsy. In *10th IEEE international Conference on Bioinformatics & Bioengineering. IEEE BIBE10*, pp. 15-19 2010.
- P. Xanthopoulos**, A. Arulsevan, V. Boginski, and P.M. Pardalos. A retrospective review of social networks. In *Advances in Social Network Analysis and Mining, 2009. IEEE ASONAM '09*, pp. 300-305, 2009.
- P. Xanthopoulos**, C.-C. Liu, P. M. Pardalos, J. Zhang, S. Nair, K. Kelly, and B. M. Uthman. A robust spike and wave algorithm for detecting seizures in a genetic absence seizure model. In *Engineering in Medicine and Biology Society, 2009. EMBS 31st annual International Conference of the IEEE*, pp. 2184 - 2187, 2009.

C.-C. Liu, **P. Xanthopoulos**, W. Chaovalitwongse, P. M. Pardalos, and B. M. Uthman. Antiepileptic drug intervention decouples electroencephalogram (EEG) signals: a case study in Unverricht-Lundborg disease. *Engineering in Medicine and Biology Society, 2008. EMBS 30th annual International Conference of the IEEE*, pp. 2108–2111, 2008.

P. Y. Ktonas, S. Golemati, **P. Xanthopoulos**, V. Sakkalis, M. D. Ortigueira, H. Tsekou, M. Zervakis, T. Paparrigopoulos, and C. R. Soldatos. Potential dementia biomarkers based on the time-varying microstructure of sleep EEG spindles. *Engineering in Medicine and Biology Society, 2007. EMBS 29th annual International Conference of the IEEE*, pp. 2464–2467, 2007.

P. Xanthopoulos, S. Golemati, V. Sakkalis, P. Y. Ktonas, M. Zervakis, and C. R. Soldatos. Modeling the time-varying microstructure of simulated sleep EEG spindles using time-frequency analysis methods. *Engineering in Medicine and Biology Society, 2006. EMBS 28th annual International Conference of the IEEE*, 1:2438–2441, 2006.

Non-Refereed Conference Proceedings

A. Kammerdiner, **P. Xanthopoulos**, and P. M. Pardalos. Numerical limitations in application of vector autoregressive modeling and granger causality to analysis of EEG time series. In *Data Mining, Systems Analysis and Optimization in Biomedicine. AIP Conference Proceedings*, volume 953, pages 232–245, 2007.

P. Xanthopoulos, V. Yatsenko, A. Kammerdiner, and P.M. Pardalos. Inverse source localization for EEG using system identification approach. In *Data Mining, Systems Analysis and Optimization in Biomedicine. AIP Conference Proceedings*, volume 953, pages 254–261, 2007.

C.-C. Liu, W. Chaovalitwongse, P.M. Pardalos, O. Seref, **P. Xanthopoulos**, JC Sackellares, and F.M. Skidmore. Quantitative analysis on electrooculography (EOG) for neurodegenerative disease. In *Data Mining, Systems Analysis and Optimization in Biomedicine. AIP Conference Proceedings*, volume 953, pages 246–253, 2007.

Other abstracts/posters

P. Xanthopoulos Supervised Learning Algorithms for Datasets Under Uncertainty, *Industrial and Systems Engineering Research Conference (ISERC) Orlando FL, May 19-23, 2012.*

L. Rabelo, L. Andrade, **P. Xanthopoulos**, M. Marin Expansion of the Panama Canal: Simulation Modeling and Artificial Intelligence, *Industrial and Systems Engineering Research Conference (ISERC) Orlando FL, May 19-23, 2012.*

P. Xanthopoulos Robust Optimization in Supervised Learning. *INFORMS Annual meeting Charlotte NC, November 13–16, 2011.*

P. Xanthopoulos Optimization Models in Data Mining with Applications in Biomedicine. *INFORMS Annual meeting Austin TX, November 7–10, 2010.*

J. Zhang, **P. Xanthopoulos**, C.-C. Liu, S. Bearden, B. M. Uthman, and P. M. Pardalos. Nonlinear Time Series Analysis for Differentiating between Status Epileptics and Non-Epileptic Encephalopathy. *4th International Seizure Prediction (IWSP4), June 3–7, Kansas City KA, June 3–7, 2009.*

C-C Liu, **P. Xanthopoulos**, P. M. Pardalos, J. Zhang and B. M. Uthman. Antiepileptic Drug Effect of on Brain Cortical Networks in Patients with Unverricht-Lundborg Disease. *American Epilepsy Society (AES) Annual Meeting, Seattle WA, December 5–9, 2008.*

P. Xanthopoulos, C-C Liu, S. Rebennack, P. M. Pardalos, G. L. Holmes, B. M. Uthman. Automated spike and wave detection for absence epilepsy. *American Epilepsy Society (AES) Annual Meeting, Seattle WA, December 5–9, 2008.*

P. Xanthopoulos, S. Rebennack, C-C Liu, P. M. Pardalos, G. Holmes, B. M. Uthman. A Wavelet-variance based algorithm for automatic epileptic spike and wave activity detection. *AREADNE 2008 Research in Encoding And Decoding of Neural Ensembles, Santorini, Greece, June 26–29, 2008.*

C-C Liu, **P. Xanthopoulos**, M. Bewernitz, P. M. Pardalos, B. M. Uthman. Structure of brain connectivity and treatment effects. *AREADNE 2008 Research in Encoding And Decoding of Neural Ensembles, Santorini, Greece, June 26–29, 2008.*

P. Xanthopoulos, G. Holmes, C-C Liu, P. M. Pardalos, S. Rebennack, B. M. Uthman. Petit mal seizure detection algorithm for evaluating antiepileptic drug effect. *INFORMS Annual Meeting Washington D.C., October 12–15, 2008.*

P. Xanthopoulos, C-C Liu, O. Seref, A. Kammerdiner, P. M. Pardalos, J. C. Sackellares, and F. Skidmore. Quantitative analysis of Eye movement datasets for controlling neurodegenerative diseases. *INFORMS Annual Meeting Seattle WA, November 4-7, 2007.*

Invited talks

P. Xanthopoulos Quantitative EEG analysis in epilepsy research
Integrated Brain Imaging Center (IBIC)
University of Washington, Seattle, 8 March, 2012
Invited by Dr. W. A. Chaovalitwongse

P. Xanthopoulos Data Mining Under Uncertainty
International Conference on Computational Biomedicine, Gainesville FL, February 29 – March 2, 2012.
Plenary talk, invited by conference organizers.

P. Xanthopoulos Network Spectral Clustering with Applications
1st International Conference on Network Analysis, Gainesville FL, December 14 – 16, 2011.
Invited by conference organizers.

P. Xanthopoulos A Spectral Clustering Based Algorithm for Dimensionality Reduction of Biological Datasets.
INFORMS Annual meeting Austin TX, November 7–10, 2010.
Invited by session organizers.

P. Xanthopoulos Data Mining in Biomedicine, Tampa FL, March, 19, 2010.
Invited by the local INFORMS student chapter at University of South Florida
Event featured in ORMS tomorrow magazine.
Article link: <http://www.informs.org/Pubs/ORMS-Tomorrow/Student-Chapters-Section>

P. Xanthopoulos, P. M. Pardalos. Spectral Methods in Mining Data Biomedical and Social Networks.
INFORMS Annual meeting San Diego CA, October 11–14, 2009.
Invited by session organizer.

Patents

B. M. Uthman and P. M. Pardalos and **P. Xanthopoulos** and C. C. Liu and S. Rebennack, Time Frequency Transformation Analysis for Detection and Quantification of Epileptiform Activity Load in Generalized Epilepsies. US Patent App. 12/866,591, Filing date: 24 June, 2009.

Grants and Contracts

Funded

P. Xanthopoulos (PI), K. Madani (Co-PI), S. Lotfifard (Co-PI), D. Wang (Co-PI)

Early Investigation: Bridging the Gap between Climate Change, Extreme Events, and Electricity Infrastructure Design,

In-House Seed Grants for New Interdisciplinary Collaborations, College of Engineering and Computer Sciences (CECS), University of Central Florida

Amount: \$15,000.

Pending/In preparation

P. Xanthopoulos (PI), L. Rabelo (co-PI)

Title: Blending Industrial Engineering Undergraduate Curriculum with Big Data Analytics,

Status: In preparation

Sponsor: National Science Foundation (NSF)

Type: External

Proposed amount: \$200,000 (Xanthopoulos credit: \$100,000)

proposed duration: 01/2013 – 12/2014

S. Butenko (PI), I. Damnjanovic (co-PI), V. Boginski (co-PI), P. M. Pardalos (co-PI), **P. Xanthopoulos (co-PI)**

Title: Optimal Flows in Interdependent, Heterogeneous, Dynamically Evolving Networks in Presence of Uncertain Component,

Status: Pending

Sponsor: Defense Threat Reduction Agency (DTRA)

Type: External

Proposed amount: \$ 1,750,000 (Xanthopoulos credit: \$300,000)

Proposed duration: 9/2012 – 9/2015

P. Xanthopoulos (PI), W. Karwowski (co-PI), T. Ahram (co-PI), T. Wan (co-PI), M. Deichen (co-PI)

Title: Complex addictive behavior in student population through network automation

Status: Pending

Sponsor: National Institute of Health (NIH)

Type: External

Proposed amount: \$ 615,694 (Xanthopoulos credit: \$246,277)

proposed duration: 12/2012 – 11/2015

P. Xanthopoulos (PI), K. Madani (Co-PI), S. Lotfifard (Co-PI), D. Wang (Co-PI)

Tentative Title: Bridging the Gap between Climate Change, Extreme Events, and Electricity Infrastructure Design,

In preparation, targeted to National Science Foundation (CMMI-IMEE program)

Professional Activities

Department Service

Member, IEMS Graduate committee, Spring 2012-now.

Faculty Advisor, Systems Engineering Chapter (SEC), Spring 2012-now.

Member, PhD Qualifying Exams committee, Fall 2011, Spring 2012.

Member, MSc Exams committee, Fall 2011, Spring 2012.

Chair, Marian and Gary Whitehouse Doctoral fellowship selection committee, Fall 2011-now.

University Service

Judge, Ninth Annual Graduate Research Forum at UCF, Spring 2012.

Service to the Profession

Memberships

Member, Institute for Operations Research and Management Science (INFORMS).

Member, Society of Industrial and Applied Mathematics (SIAM).

Member, American Society for Engineering Education (ASEE).

Member, Δ EI (Delta Epsilon Iota) Academic Honor Society.

Session Chair in Professional Meetings

Industrial and Systems Engineering Research Conference (ISERC), May 19-23, 2012. Orlando, FL, USA.
Session Chair: Machine Learning and Optimization under Uncertainty.

INFORMS 2011 Annual Meeting, November 13-16, Charlotte, NC, USA.
Session Chair: Optimization Models in Data Mining with Applications.

INFORMS 2010 Annual Meeting, November 7-10, Austin, TX, USA.
Session Chair: Optimization Models in Data Mining with Applications in Biomedicine.

INFORMS 2009 Annual Meeting, October 11-14, 2009, San Diego, CA, USA.
Session Chair: Data Mining Approaches in Biomedicine.

INFORMS 2008 Annual Meeting, October 12-15, 2008, Washington, D.C, U.S.A.
Session Chair: Data mining in Computational Neuroscience.
Session Co-Chair: Optimization Techniques in Computational Biology and Systems Biology

INFORMS 2007 Annual meeting Seattle, November 4-7, 2008 Seattle, WA, USA.
Session Co-Chair: Data Mining Applications in Neuroscience.

Other Conference Organization

Advisory Committee Member, International Conference on Optimization, Simulation and Control
July 25-28, 2010 Ulaanbaatar, Mongolia.

Conference Organizer, International Conference on Biomedical Data & Knowledge Mining: Towards Biomarker Discovery,
July 7-9, 2010 Chania, Greece.

Conference Organizer, Workshop on Optimization and Data Analysis in Biomedical Informatics
June 11-12, 2010, University of Toronto, Toronto, Canada.

Local Organizing Committee Member, International Conference on Systems Analysis Tools for Better Health Care Delivery: A New Engineering Health Care Partnership.
March 24-26, 2010, Gainesville, FL, USA.

Conference Organizer, Conference on Computational Neuroscience
February 20-21, 2008 Gainesville, FL, USA.

Local Organizing Committee and Session Chair , Data Mining, Systems Analysis and Optimization in Biomedicine
March 28-30, 2007 Gainesville, FL, USA.

Editorial Board Memberships

Associate Editor, Optimization Letters, (*Springer*)

Associate Editor, International Journal of Biomedical Data Mining (*Ashdin Publishing*)

International Editorial Review Board Member, International Journal of Business Analytics (*IGI Global*)

International Editorial Review Board Member, International Journal of Agricultural and Environmental Information Systems (*IGI Global*)

International Editorial Review Board Member, Artificial Intelligence Research (*SCIEDU press*)

Journal/Encyclopedia/Book reviewer

Computational Management Science (*Springer*)

Frontiers in Systems Biology (*Frontiers Media S.A.*)

Central European Journal of Engineering (*Springer*)

Dynamic Analysis for Social Network (*iConcept press*)

Annals of Operations Research (*Springer*)

BMC Medical Imaging (*BioMed Central*)

Wiley Encyclopedia of Operations Research and Management Science (*Wiley & Sons*)

Optimization Letters (*Springer*)

Operational Research: An International journal (*Springer*)

Journal of Combinatorial Optimization (*Springer*)

Journal of Global Optimization (*Springer*)

Computers in Biology and Medicine (*Elsevier*)

Springer Optimization and its Applications (SOIA) book series reviewer

CRC Press book reviewer

Conferences reviewer

ISERC 2012, SEA 2012, IEEE BIBE 2010, IEEE EMBC 2009, 2011, 2012, BIOMAT 2008

Other Review

Reviewer, ASEE, New Faculty Research Award 2012

Certifications

Completed Online Course Development Certification (IDL 6543)
Offered by the Center for Distributed Learning at UCF

Other - Doctoral committee member (not as chair)

IEMS Department (Graduated)

Shawn Gallagher (Chair: A. Elshennawy)

Cheng Qi (Chair: Ni-Bin Chang)

IEMS Department (In Progress)

Braclay Brown (Chair: W. Karwowski)

Christina Rusnock (Chair: C. Geiger)

Christina Bouwens (Chair: J. Sepulveda)

Halil Bozkurt (Chair: W. Karwowski)

John Pastrana (Chair: L. Rabelo)

External member

Soroush Mokhtari (Department of Civil, Environmental and Construction Engineering, chair: K. Madani)

Recognition and Awards

Lockheed Martin Faculty Fellow,
Awarded by UCF College of Engineering and Computer Science (CECS)

IIE junior faculty Colloquium participant,
Nominated by IEMS department at UCF

Who's Who in Engineering Higher Education (WWEHE), 2012

Graduate Award for Excellence in Research, 2010.
Awarded by the Industrial and Systems Engineering Department, University of Florida.

Student Travel Award for IEEE-BIBE, 2010.
Awarded by IEEE- BIBE 2010 organizing committee.

International Student Outstanding Achievement Award, 2009.
Awarded by the College of Engineering, University of Florida.

INFORMS Future Academician Colloquium participant, 2009.
Nominated by the Industrial and Systems Engineering Department, University of Florida.

Full Support Through Teaching and Research Assistantship During PhD Studies, 2006-2011.
Industrial and System Engineering Department, University of Florida.