

Introduction

Long career of Professional Engineering, Teaching, Research, and Department Administration, as well as many industry collaborations, Best Teacher Award, overwhelming recognition by alumni as the professor that had the most impact on their professional careers, great number of publications including IEEE Best Paper award, many Ph.D. and MS well placed graduates, and \$Millions of external funding. Also past Chairman of the department of Electrical Engineering and Computer Science, at the University of Toledo, Toledo, Ohio. While there, and with a Five Year Contract funding, Dr. Ghandakly established the new and remarkable off campus CSE program at Lorain County Community College (LCCC), in the Cleveland area, a currently thriving entrepreneurial department expansion venture.

In August 2005, joined California State University, Chico, California as Chairman and Professor of Electrical and Computer Engineering.

Select Recent Publications:

1. "A Neural Network Parallel Adaptive Controller for Fighter Aircraft Pitch-Rate Tracking", Sukumar Kamalasan, Adel A. Ghandakly, **IEEE Transactions of Instrumentation and Measurements**, January 2011.
2. "A GUI SYSTEM FOR INTEGRATING PHOTOVOLTAIC AND WIND UNITS INTO POWER GRIDS", Adel A Ghandakly and Rostan Rodrigues, 2010 Summer Simulation Conference (SummerSim10) July 11 - 14, 2010, Ottawa, Canada.
3. "Multiple Fuzzy Reference Model Adaptive Controller Design for Nonlinear Fighter Aircraft Pitch-Rate Tracking", Sukumar Kamalasan, Adel A. Ghandakly, In Press, **IEEE Transactions of Instrumentation and Measurements**, October 2007.
4. "Induction Motor Speed Control via Fuzzy Logic Modification of Reference Model", Khalid S. Al-Olimat, Adel A. Ghandakly, Sukumar Kamalasan, IEEE Power Engineering Society Annual Meeting, Tampa, Florida, April 24-28, 2007.
5. "A Neural Network Parallel Adaptive Controller for dynamic Systems Control", Sukumar Kamalasan, Adel A. Ghandakly, In Press, **IEEE Transactions of Instrumentation and Measurements**, June 2007.
6. "A Stable Intelligent Agent Controller for Parametric and Functional Uncertain Systems", Sukumar Kamalasan, Adel A. Ghandakly, in print in **Book Chapter**, Notes in Computer Science (LNCS), International Conference on Adaptive and Natural Computing Algorithms (ICANNGA 2007).
7. "A Novel Fuzzy Multiple Reference Model Adaptive Controller Design", Sukumar Kamalasan, Adel A. Ghandakly, **International Journal of Fuzzy Systems**, September 2006.

8. "A Fuzzy Logic based Multiple Reference Model Adaptive Control Approach for Multi Modal Systems ", Sukumar Kamalasadana, Adel A. Ghandakly, accepted and to appear in **International Journal of Computers and Their Applications, August 2007.**
9. "An Artificial Neural Network Algorithm for Voltage Stability Monitoring and Assessment" , Sukumar Kamalasadana, Adel A. Ghandakly, D.Thukaram, **International Journal of Computers and Their Applications, ISSN 1076-5204, June 2005.**
10. "Nonlinear Fighter Aircraft Pitch-Rate Tracking Using A Multiple Fuzzy Reference Model Adaptive Controller", In proceedings of the IEEE International Conference on Computational Intelligence for Measurement Systems and Applications(CIMSA'05), ISBN 0-7803-9026-1, 20-22 July, 2005, pp 44-49, Giardini-Naxos, Italy.
11. "A Fighter Aircraft Pitch Rate Control based on Neural Network Parallel Controller", In Proceedings of the IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSA'05), ISBN 0-7803-9026-1, 20-22 July 2005, pp 135-140, Giardini-Naxos, Italy.
12. "Multiple Model Adaptive Control Algorithm Using Fuzzy Logic Adjustment and Its Application to Robotic Manipulator", Khalid S. Al-Olimat, Adel A. Ghandakly, *Proceedings of IEEE Industry Applications Society Annual Meeting, Session 37, Paper 5*, Pittsburgh, PA, October 13-18, 2002.
13. "An adaptive position tracking controller for permanent magnetic stepper motors," Sukumar Kamalasadana, Adel A. Ghandakly, *Proceedings of International Conference on Automatic Control "Automatica 2002"*, Reference P - 089, pp 101, summary book ISBN: 84 - 699 - 9025 – X, Santiago de Cuba, July 17-19, 2002.
14. "On-Line Tuning of Industrial PID Controllers Using A Parameter Optimization Technique," Ahmad M. Farhoud, Adel A. Ghandakly and Khalid S. Al-Olimat, *Proceedings of International Conference on Automatic Control "Automatica 2002"*, Reference P - 089, pp 102, summary book ISBN: 84 - 699 - 9025 – X, Santiago de Cuba, July 17-19, 2002.
15. "Adaptive Air-Fuel Ratio Control of an SI Engine Using Fuzzy Logic Parameters Evaluation", K Al-Olimat, A. Ghandakly, SAE Electronic Engine Control, SP-1501, pp 217-225, March 2000.