In the name of GOD

Alireza Faraji

Control Group, Electrical Engineering department University of Kashhan, Kashan, Iran

Email: arfaraji@yahoo.com, arfaraji@kashanu.ac.ir

EDUCATION:



- M.Sc. in Electrical (power) Engineering, Ferdowsi University of Mashhad, Iran, Grade: ۱۷.۲۳/۲•
- Ph.D. in Electrical (control) Engineering, Ferdowsi University of Mashhad, Iran, Grade: ۱۷.۹/۲۰

RELEVANT EXPERIENCE:

- Designer of industrial controller systems, Computer and Automation section of "Jahad daneshgahi", Sharif University of Technology, 1990-97.
- Advisor on industrial automation systems for private enterprises from 1997
- Instructor of Engineering Faculty, university of Kashan, Iran, 1999-Y.1.
- QC and R&D manager in TUBA electric co. Y · · · Y · · · \
- Manager of Incubator of technologic private enterprises, Kashan University Y...Y-Y....
- Manager of entrepreneurship center of Kashan University, Y. 1.-Y. 17.
- Manager of science communications and technologic affairs, Kashan University ۲۰۱۳-۲۰۱۰

COURSES TAUGHT:

Micro processors, Micro controllers, PC interfacing circuits, computer architecture, Linear control, Fuzzy control, Industrial control, Modern control, Nonlinear control, Soft computing, Advanced mathematics for control engineering, Artificial neural networks, Industrial electronics.

RESEARCH AREAS:

- Analysis and synthesis of linear and nonlinear systems
- Nonlinear control, Robust control, Fuzzy control
- Design of digital circuits with FPGA, DSP, μ.P. and μ.C. (AVR, x°, ARM).
- Industrial automation and process control (PC& PLC Based)
- Robotic and mechatronic systems
- Advanced automotive electric & electronic

RESEARCHES:



- "Design and manufacturing of an intelligent mobile robot with vision", University of Kashan, Iran, Y.....
- "Design and manufacturing of ECUs with CAN bus for Automotive systems". Joint research between ICT centre of Isfahan university of Technology & University of Kashan, Iran, ۲۰۰۲.
- "Design and manufacturing of central lock for Automotive systems". Joint research between ICT centre of Isfahan university of Technology & University of Kashan, Iran, ۲۰۰۲.
- Designer of Microprocessor Lab, Computer architecture Lab, FPGA Lab, PC interfacing circuits Lab, Industrial control and robotic in electrical faculty of University of Kashan.
- Supervisor of the best team in CANSAT national student competitions for years ۲۰۱۱-۲۰۱۳

PUBLICATIONS:

- M.sc. thesis: "Design of a μ Robust controller for a multi machine power system", Electrical department, Engineering Faculty, Ferdowsi university of Mashhad, 1999.
- Asgharaian R. and Faraji Armaki A., "Design of a μ Robust controller for a multi machine power system", Proceedings of Iranian Conference on Electrical Engineering (ICEE), Isfahan University of Technology, Iran, May Υ···
- Faraji Armaki A., Pariz N. and Asgharian R., "An algorithm for constructing nonsmooth Lyapunov functions for continuous nonlinear time invariant systems", Iranian Journal of Control, Vol. 7, No. 7, pp ۱۷-75, ۲۰۰۹.
- Faraji Armaki A., Pariz N. and Asgharian R., "Construction of Nonpathological Lyapunov functions for discontinuous systems with Caratheodory solutions", Asian Journal of Control, printed Voct. Y. Y.
- Faraji Armaki A., Pariz N. and Asgharian R., "A method for construcing Nonpathological Lyapunov functions for Caratheodory systems", Submitted to Nonlinear Analysis Journal, June 1.1.
- PH.D. thesis: "A new method for constructing Lyapunov functions for Caratheodory systems", Electrical department, Engineering Faculty, Ferdowsi university of Mashhad, Y.Y.
- Design of Robust Nonlinear Optimal Controller for Underwater Vehicle to Move in Depth Channel using Gradient Descent Method with Systematic Step Selection, Marzieh Ahmadi, Abolfazl Halvaei Niasar, Alireza Faraji, Hassan Moghbeli, Applied Mechanics and Materials Trans Tech Publications, Switzerland, Vol. V· £, pp TY·-TY £, (Y· Vo), doi: V· £· YA/www.scientific.net/AMM.V· £. TY·
- Position Sensorless Direct Power Control of Brushless DC Motor Drive, Saber Jamshidi far, Abolfazl Halvaei Niasar, Alireza Faraji, power electronic technologies, sharif university conference, march Y. Ye.

WORKSHOPS:

- Asgharaian R. and Faraji Armaki A., "Analysis and synthesis methods of H∞ & μ Robust controllers", Iranian Conference on electrical Engineering (ICEE), Isfahan University of Technology, Iran, May Υ···.
- Faraji Armaki A., "Advanced electric and electronic of Automotive systems", University of Kashan, Iran, ۲۰۰۳.