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Education

Ph.D. Candidate in Cognitive Neuroscience, Graduate Training Center for Neuroscience, Tübingen University, Tübingen, Germany, 2011 – ongoing
Dissertation Title: The role of the STS in Gaze Following and Joint Attention
Dissertation Advisor: Prof. Peter Their

M. S. in Medical Radiation Engineering, Amirkabir University of Technology, Tehran, Iran, 2011
Dissertation Title: Designing an Adaptive Controller for Radiation Propagations in Breast Cancer Radiotherapy
Dissertation Grade: 20 out of 20
Dissertation Advisor: Prof. Saeed Setayeshi

B. S. in Electrical Engineering-Control, Sadjad Institute of Higher Education, Mashhad, Iran, 2009
Dissertation Title: Measure Theory and Applications in Nonlinear Problems
Dissertation Grade: 19.75 out of 20
Dissertation Advisor: Dr. Vahid Asadpour, Dr. Amin Jajarmi

Field of Research

- Neural Computational Modeling
- Brain Imaging
- Biomedical Signal and Image Processing
- Control Theory

Scholarships

- PhD scholarship, Hertie Institute for Clinical Brain Research, Tübingen, Germany, 2011-2016.

Awards and Honors

- First Rank between Control Engineering students at Sadjad Institute of Higher Education, 2009

Academic Activities

Physics Department, Amirkabir University of Technology, 2009-2011

- Directed four undergraduate students' research and supervised their thesis
- Taught undergraduate classes, supervised experiments and graded assignments

Publications

- [1] A. Jajarmi, H. Ramezanzpour, A. Sargolzaei, P. Shafaei, “*Optimal Control of Nonlinear Systems Using the Homotopy Perturbation Method: Infinite Horizon Case*” , Journal of Digital Content Technology and Its Applications, Vol. 4, No. 9, pp 114-122, 2010.
- [2] A. Jajarmi, **H. Ramezanzpour**, M. D. Nayyeri, A. V. Kamyad, “*A Measure Theoretical Approach for Path Planning Problem of Nonlinear Control Systems*”, Intelligent Control and Automation , Vo. 2, No .2 , 2011.
- [3] **H. Ramezanzpour**, S. Setayeshi, ME. Akbari, “*A Novel Scheme for Optimal Control of a Nonlinear Delay Differential Equations Model to Determine Effective and Optimal Administating Chemotherapy Agents in Breast Cancer*”, Iranian Journal of Cancer Prevention, Vo. 4, No. 4, 2011.
- [4] G. Darmani, S. Setayeshi, **H. Ramezanzpour**, “*A Robust Closed-Form Solution for Nonlinear Heat Transfer Equations*”, International Review on Modelling and Simulations, Vol. 4, No. 5, 2011.
- [5] G. Darmani, S. Setayeshi, **H.Ramezanzpour**, “*Toward Analytic Solution of Nonlinear Differential Difference Equations via Extended Sensitivity Approach*”, Communications in Theoretical Physics, Vol. 57, No. 1, 2012.
- [6] **H. Ramezanzpour**, S. Setayeshi, H. Arabalibeik, A. Jajrami, “*An Iterative Procedure for Optimal Control of Bilinear Systems*”, International Journal of Instrumentation and Control Systems, Vol. 2, No. 1, 2012.
- [7] H. Farrokhbakht, A. Masoumzadeh Tork, E. Yazdan Talab, **H. Ramezanzpour**, G. Darmani, “*An Adaptive Filter for Noise Cancelling in Mammography Images Based on*

Celullar Automata”, International Review on Modelling and Simulations, Vol. 5, No. 3, June 2012.

- [8] S. Noei, S. Sargolzaei, **H. Ramezanpour**, A. Sargolzaei, “*Fuzzy-Cellular Automata Method for Noise Cancellation of Satellite and Radar Images & Maps*”, International Journal of Emerging Technology and Advanced Engineering, Vol. 2, Issue. 7, July 2012.
- [9] **H. Ramezanpour**, B. Razeghi, G. Darmani, S. Noei, A. Sargolzaei, “*A Modal Series Representation of Genesis Chaotic System*”, International Journal of Instrumentation and Control System, Vol. 2, No. 3, July 2012.
- [10] A. Sargolzaei, K. Yen, S. Noei, **H. Ramezanpour**, “*Assessment of He’s Homotopy Perturbation Method for Optimal Control of Linear Time-Delay Systems* ”, Applied Mathematical Science, Vol. 7, No. 8, 349-361, 2013.

Conference Papers

- [1] A. Jajarmi, **H. Ramezanpour**, M. D. Nayyeri, A. V. Kamyad, “*A New Approach to Solve Nonlinear Path Planning Problem via Measure Theory*”, Proceeding of the 13nd IEEE International Multi Topic Conference, Islamabad, Pakistan, December 2009.
- [2] A. Jajarmi, **H. Ramezanpour**, A. Sargolzaei, P. Shafaei, “*Optimal Control of Nonlinear Systems Using Homotopy Perturbation*”, Proceeding of the 2010 International Colloquium on Computing, Communications, Control, and Management (CCCM), Yangzhu, China, August 2010.
- [3] **H. Ramezanpour**, N. Barati, G. Darmani, H. Farrokhbakht, “*Application of Adaptive Filters in Noise Reduction in Mammography Images*”, Proceeding of the International Conference on Systems in Medicine and Biology (ICSMB), IIT Kharagpur, India, December 2010.
- [4] A. Jajarmi, S. Bahramnezhad, **H. Ramezanpour**, “*Modifying the Homotopy Perturbation Method to Solve Discrete-time Nonlinear Optimal Control Problems*”, Proceeding of the 2010 International Conference on Services Science, Management and Engineering (SSME), Tianjin, China, December 2010.
- [5] A. Sargolzaei, S. Ganesan, **H. Ramezanpour**, G. Darmani, “*Steady-State Analysis of Nonlinear Oscillators Using Sensitivity Approach*”, Proceeding of the 2011 International Conference on Solid-State and Integrated Circuit (ICSIC), Shanghai, China, March 2011.
- [6] A. Jajarmi, **H. Ramezanpour**, N. Pariz, A. Kamyad, “*A Novel Computational Approach to Solve Nonlinear Boundary Value Problems using Extended Modal Series Method*”,

Proceeding of 19nd Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2011.

Professional Membership

- Society for Neuroscience
- Bernstein Center for Computational Neuroscience
- Iranian Neuroscience Society
- German Neuroscience Society

Teaching Assistance for Undergraduate Courses

Electrical Engineering Department, Sadjad Institute of Higher Education, 2007-2009

- Modern Control Systems
- Signal and Systems Analysis
- Engineering Mathematics
- Differential Equations
- Applied Mathematics

Computer Skills

- Engineering Software: Matlab (Simulink), PSpice, LabVIEW
- Programming Language: C/C++, Matlab programming

References

Prof. Peter Their

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