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## M. J. YAZDANPANA

Director, Control & Intelligent Processing Center of Excellence (CIPCE)  
Director, Advanced Control Systems Lab (ACSL)  
School of Electrical and Computer Engineering  
University College of Engineering, University of Tehran  
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## Objective

C.V. submission

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## Current Position

**Professor**  
July 8, 2008-Present

*School of ECE, University of Tehran, Tehran, Iran*

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## Courses Taught/To be Taught

*Taught at the Sch. of ECE, U. of Tehran*

**Nonlinear Control Systems I (Analysis & Design)**

*Taught at the Sch. of ECE, U. of Tehran*

**Nonlinear Control Systems II (Analysis & Design)**

*Taught at the Sch. of ECE, U. of Tehran*

**Optimal Control (Including materials on System Optimization & LQG-LTR)**

*Taught at the Sch. of ECE, U. of Tehran*

**Adaptive Control Systems**

*Taught at the Sch. of ECE, U. of Tehran*

**Robust Control (State-Space & Frequency Domain)**

*Taught at the Sch. of ECE, U. of Tehran*

**Neural Networks and Applications**

*Taught at the Sch. of ECE, U. of Tehran*

**Linear and Nonlinear Programming**

*Taught at the Sch. of ECE, U. of Tehran*

**Linear Control Systems**

*Taught at the Sch. of ECE, U. of Tehran*

**Linear Algebra**

*Taught at the ERC, Tehran, Iran*

**Digital Control Systems**

*To be taught at the Sch. of ECE*

**Linear Systems**

*To be taught at the Sch. of ECE*

**Linear Matrix Inequalities in Control Systems**

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## Membership

- Control & Intelligent Processing Center of Excellence, Tehran, Iran
- IEEE Control Systems Society
- IEEE Computational Intelligence Society
- Iranian Mechatronics Association
- Intelligent Systems Scientific Society of Iran

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**Research Grants**

- University of Tehran
- Ministry of Energy
- Automotive industries
- Iranian Fuel Conservation Organization
- Management and Planning Organization
- SAPCO

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**Research Activities/Interests**

*Supervision of 6, and co-supervision of 5 Ph.D. students plus supervision of 45 M.Sc. students in the following areas:*

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***Theoretical Research Topics***

- Control of slowly varying systems
- Practical nonlinear output regulation
- Robust control of singularly perturbed systems
- Techniques for the enhancement of sliding mode controllers
- Control of multivariable nonlinear systems using nested sliding mode technique
- Robustness analysis of nonlinear control systems
- Optimization Approach for Computing Nonlinear Sliding Surfaces
- New results on Input/State Stability (ISS)
- Enlarging domain of attraction in nonlinear control systems
- Order reduction using analytical and intelligent techniques
- Reconfigurable controller design
- Optimal Takagi-Sugeno fuzzy control
- Robust control of singularly perturbed systems
- Computation of nonlinear  $H_\infty$  controllers via analytical and intelligent techniques
- Mixed  $H_2/H_\infty$  estimation/control
- Adaptive sliding control of non-minimum phase systems
- Feedback linearization using neural networks
- Robust control of time delay systems
- Fault detection

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***Applied Research Topics***

- Multiscale modeling of cancer chemotherapy
- Control on networks
- Drug delivery control in cardiac arrhythmia
- Tracking control of mobile robots
- Control of redundant manipulators
- Analytical and intelligent techniques for control of induction motors
- Study of reservoir sedimentation using expert systems
- Neural network application to water level forecasting
- Control of flexible link/joint manipulators
- Control of automotive systems using analytical and intelligent techniques
- Analytical and intelligent methods in the control of HVAC systems
- Nonlinear power systems stabilizer

- Nonlinear control synthesis for a helicopter
- Multi-sensor tracking
- Image compression via neural networks
- Forecasting daily urban water demand
- Forecasting Stock Price Direction Using a Neura Network Predictor
- Prediction of synthetic mercury injection capillary pressure curve using ANN
- Training of an attacker in robot soccer competitions based on the Cohonen NN
- Adaptive force control of redundant manipulators
- Modeling and control of washing machines (analytical and intelligent techniques)
- Gain-schedeuled PI controller for synchronous generator

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## Education

- Ph.D., Electrical Engineering**  
1997  
*Concordia University, Montreal, Quebec, Canada*  
Rank: Outstanding  
Thesis: Control of flexible-link manipulators using nonlinear  $H_\infty$  techniques
- M.Sc., Electrical Engineering**  
1988  
*University of Tehran, Tehran, Iran*  
Thesis: a. Transient stability of power systems  
b. Study of bifurcation phenomenon in dynamical systems
- B.Sc., Electrical Engineering**  
1986  
*Isfahan University of Technology, Isfahan, Iran*

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## Experience

- Director of CIPCE**  
June 2010-Present  
*Control & Intelligent Processing Center of Excellence, University of Tehran, Tehran, Iran*
- Associate Professor**  
October 19, 2002-July 8, 2008  
*School of ECE, University of Tehran, Tehran, Iran*
- Assistant Professor**  
June 22, 1998- Oct. 18, 2002  
*School of ECE, University of Tehran, Tehran, Iran*
- Director of Control Group**  
Sep. 2001-Oct. 2004  
*School of ECE, University of Tehran, Tehran, Iran*
- Director of Automation Dept.**  
Aug. 1998-Aug. 1999 (Part Time)  
*Saadqe Negaar Development of Information Industries Co., Tehran, Iran*
- Post Doctoral Fellow**  
June 1997-March 1998  
*Concordia University, Montreal, Quebec, Canada*
- Chairman of the System Design Division**  
May 1989-December 1992  
*Engineering Research Center, Tehran, Iran*

**R&D Engineer**  
March 1988-April 1989

*Engineering Research Center, Tehran, Iran*

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## Certificate

**A Course in Analog Computer  
Training**  
Jan.-Feb. 1989

*Dornier Company, Germany*

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## Awards & Scholarships

**Scholarship**  
1990

*For scoring top 10% in the Ph.D. exam, Tehran, Iran*

**Award**  
1989

*For Excellent Management at ERC (Engineering Research Center), Tehran, Iran*

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## Computer Skills

**Programming Languages**

Fortran, C

**Operating Systems**

Dos, Unix, Windows

**Software Packages**

Extensive experience with MATLAB, SIMULINK, MAPLE and CC;  
LMITool (For Linear Matrix Inequality Optimization)  
SP (For Semi-definite Programming)

**Documentation**

Latex, Microsoft Word, FrameMaker

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## Publications

- Refereed Chapter Book: 2
- Refereed Journal Publications: 43
- Refereed International Conference Publications: 98
- Refereed National Conference Publications: 42
- Technical Reports: 3

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## Chapter Book

- [1] Farrokh Payam, A., **Yazdanpanah, M.J.**, and Fathipour, M., "A Robust Motion Tracking Control of Piezo-Positioning Mechanism with Hysteresis Estimation", Applications of Nonlinear Control, ISBN: 978-953-51-0656-2, DOI: 10.5772/38244, Published online: 13. June, 2012, Published in print edition: June, 2012
- [2] Tayyebi, A., Delavar, M.R., **Yazdanpanah, M.J.**, Pijanowski, B.C., Saeedi, S., and Tayyebi, A.H., "A Spatial Logistic Regression Model for Simulating Land Use Patterns, A Case Study of the Shiraz Metropolitan Area of Iran", In "Advances in Earth Observation of Global Change" Edited by E. Chuvieco, J. Li, and Xi. Yang, Springer, 27-42, 2010, ISBN: 978-90-481-9084-3, DOI: 10.1007/978-90-481-9085-0\_3
- [3] Ebrahimirad, H., and **Yazdanpanah, M.J.**, "Sliding Mode Congestion Control in Differentiated Service Communication Networks", P. Langendoerfer et al. (Eds.): Wired/Wireless Internet Communication, *Lecture Notes in Computer Science*, Springer-Verlag Heidelberg, Vol. 2957, pp. 99-108, January 2004.

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**Journal Papers**

- [4] Atashzar, S.F., Talebi, H.A., Shahbazi, M., Towhidkhan, F., and **Yazdanpanah, M.J.** “Robust trajectory modification for tip position tracking of flexible-link manipulators”, *Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering*, April 2012, vol. 226, no. 4, 523-536
- [5] Montaseri, Gh., and **Yazdanpanah, M.J.** “Robust Adaptive Control of Uncertain Nonlinear Systems using Mixed Backstepping and Lyapunov Redesign Techniques”, *Communications in Nonlinear Science and Numerical Simulation*, 17 (2012) 3367–3380
- [6] Adhami Mirhoseini, A., **Yazdanpanah, M.J.** , and Khaki Sedigh, A. “Robust Tracking of a Class of Perturbed Nonlinear Systems via Multivariable Nested Sliding Mode Control”, *Journal of Dynamic Systems, Measurement and Control*, 134, 031004 (2012)
- [7] Amjadifard, R., Beheshti, M.T.H., **Yazdanpanah, M.J.**, “Robust Stabilization for a Class of Nonlinear Singularly Perturbed Systems”, *Journal of Dynamic Systems, Measurement, and Control*, September 2011, Vol. 133 / 051004-1:6.
- [8] Sharbafi, M.A., and **Yazdanpanah, M.J.** “IDFC: A new approach to control bifurcation in TCP/RED”, *Journal of Network and Computer Applications*, 34 (2011) 2042–2050
- [9] Nezhadfar, A., and **Yazdanpanah, M.J.** “Friction Compensation of Double Inverted Pendulum on a Cart using Locally Linear Neuro-Fuzzy Mode”, *Neural Computing & Applications*, 14 July 2011, DOI 10.1007/s00521-011-0686-3
- [10] Binazadeh, T., and **Yazdanpanah, M. J.**, “Application of passivity based control for partial stabilization”, *Nonlinear Dynamics and Systems Theory* , 11 (4) (2011) 373–382
- [11] Binazadeh, T., and **Yazdanpanah, M. J.**, “Partial stabilization approach to 3-dimensional guidance law design”, *Journal of Dynamic Systems, Measurement and Control*, November 2011, Vol. 133, 064504:1-4
- [12] Binazadeh, T., and **Yazdanpanah, M. J.**, “Partial stabilization of uncertain nonlinear systems”, *ISA Transaction*, 51 (2012) 298–303
- [13] Montaseri, Gh., and **Yazdanpanah, M.J.** “Practical Output Regulation of Uncertain Strict-Feedback Form Systems”, *Asian Journal of Control*, vol.15, no. 4, pp. 1-4, 2013, doi: 10.1002/asjc.388
- [14] Binazadeh, T., and **Yazdanpanah, M. J.**, “Robust partial control design for nonlinear control systems: A guidance application”, *Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering* February 2012, vol. 226, no. 2, 233-242
- [15] Binazadeh, T., and **Yazdanpanah, M. J.**, “Identification of a Variable Mass Underwater Vehicle Via Volterra Neural Network”, *Journal of Dynamic Systems, Measurement, and Control*, March 2010, Vol. 132 / 024501-1:7
- [16] Montaseri, Gh., and **Yazdanpanah, M.J.**, “Predictive control of uncertain nonlinear parabolic PDE systems using a Galerkin/neural-network-based model”, *Communications in Nonlinear Science and Numerical Simulation*, 17 (2012) 388–404

- [17] Keighobadi, J., **Yazdanpanah, M.J.**, and Kabgani, M., "An enhanced fuzzy  $H_{\infty}$  estimator applied to low-cost attitude-heading reference system.", *Kybernetes (0368-492X)*, 3/15/2011, Vol.40, Iss.3; p.300-326.
- [18] Shirani, F., **Yazdanpanah, M.J.**, and Nadjar Araabi, B., "Comments on "Controller Synthesis of Fuzzy Dynamic Systems Based on Piecewise Lyapunov Functions", *IEEE Transactions on Fuzzy Systems*, Volume 18, Issue 1, February 2010, Article number 5313870, Pages 227-228
- [19] Ghafarri-Kashani, A., Faiz, J., and **Yazdanpanah, M.J.**, "Integration of nonlinear  $H_{\infty}$  and SMC techniques for motion control of permanent synchronous motor", *IET Electric Power Applications*, April 2010, Vol. 4, Iss. 4, pp. 267–280
- [20] Shafiei, M. H., and **Yazdanpanah, M. J.** "Stabilization of nonlinear systems with a slowly varying parameter by a control Lyapunov function", *ISA Transactions*, Volume 49, Issue 2, April 2010, Pages 215-221.
- [21] Binazadeh, T., **Yazdanpanah, M. J.** and Shafiei, M. H. "Identification of a Variable Mass Underwater Vehicle Via Volterra Neural Network", *Journal of Dynamic Systems, Measurement, and Control (J. Dyn. Sys., Meas., Control)*, March 2010, Volume 132, Issue 2, 024501 (Pages 024501-1: 024501-7)
- [22] Kebriaei, H., and **Yazdanpanah, M.J.**, "Robust adaptive synchronization of different uncertain chaotic systems subject to input nonlinearity", *Communications in Nonlinear Science and Numerical Simulation*, Volume 15, Issue 2, February 2010, Pages 430-441.
- [23] Farrokh Payam, A., Fathipour, M., and **Yazdanpanah, M.J.** "High precision Imaging for Non-Contact Mode Atomic Force Microscope Using an Adaptive Nonlinear Observer and Output State Feedback Controller", *Digest Journal of Nanomaterials and Biostructures*, Vol. 4, No. 3, September 2009, pp. 429 – 442.
- [24] Pijanowski, B.C., Tayyebi, A., Delavar, and **Yazdanpanah, M.J.**, "Urban Expansion Simulation Using Geospatial Information System and Artificial Neural Networks", *International Journal of Environmental Research*, ISSN 1735-6865. Volume 3, Number 4, Autumn 2009, pp. 493-502.
- [25] Bavafa, E., and **Yazdanpanah, M.J.**, Kalaghchi, B. and Soltanian-Zadeh, H. "Multiscale cancer modeling: In the line of fast simulation and chemotherapy", *Mathematical and Computer Modelling*, Volume 49, Issues 7-8, April 2009, Pages 1449-1464
- [26] Mirmomeni, M., and **Yazdanpanah, M.J.**, "An Unsupervised Learning Method For An Attacker Agent In Robot Soccer Competitions Based On The Kohonen Neural Network" (*International Journal of Engineering IJE Transactions A: Basics*, Vol. 21, No. 3, pp. 255-268, September 2008
- [27] Nourouzi, M. R., and **Yazdanpanah, M.J.**, "Discrimination of ventricular fibrillation based on chaotic characteristics of electrocardiogram signals", *Iranian Journal Of Biomedical Engineering*, Spring 2007; 1(1):53-62.
- [28] Semsar, E., **Yazdanpanah, M.J.**, and Lucas, C. "Nonlinear Control and Disturbance Decoupling of HVAC Systems Using Feedback Linearization and Backstepping with Load Estimation", *IEEE Transactions On Control Systems Technology*, VOL. 16, NO. 5, pp. 918-929, September 2008.
- [29] Keighobadi, J., **Yazdanpanah, M.J.**, and Kabgani, M., "Fuzzy Variable Length Sliding Window Blockwise Least Square Algorithm with Application to vehicle Magnetic Heading Determination", *Iranian Journal of Mechanical Engineering*, Vol. 8, No. 2. March 2008, Pages 59-78.

- [30] Amiri, M., Saeb, S., **Yazdanpanah, M.J.**, and Seyyedsalehi, S.A., "Analysis of the dynamical behavior of a feedback auto-associative memory", *Neurocomputing*, Volume 71 , Issue 4-6, pp. 486-494, January 2008.
- [31] Malekmohamadi, I., R. Ghiassi, R., and **Yazdanpanah, M.J.**, "Wave hindcasting by coupling numerical model and artificial neural networks" *Ocean Engineering*, 35 (2008) 417-425.
- [32] Mohammadi-Milasi, R., **Yazdanpanah, M.J.**, and Lucas, C. "Nonlinear Optimal Control of Washing Machine Based on Approximate Solution of HJB Equation", "Optimal Control, Applications and Methods", 2008; 29:1-18.
- [33] Tabesh, M., Gousheh, S., and **Yazdanpanah, M.J.**, "Tehran Water Demand Prediction Using Artificial Neural Networks"(Farsi), *Journal of University College of Engineering, University of Tehran*, Vol. 41, No.1, pp. 11-24, May 2007.
- [34] Moosavi, M., **Yazdanpanah, M.J.**, and Doostmohammadi, R., "Modeling the cyclic swelling pressure of mudrock using artificial neural networks", *Engineering Geology*, Volume 87, Issues 3-4, 3 November 2006, Pages 178-194
- [35] Jalili, M., and **Yazdanpanah, M.J.**, "Transient stability enhancement of power systems via optimal nonlinear state feedback control", *Electrical Engineering*, Vol. 89, No. 2. (December 2006), pp. 149-156.
- [36] Karimi, H.R., and **Yazdanpanah, M.J.**, "A new modeling approach to single-link flexible manipulator using singular perturbation method", *Electrical Engineering*, Volume 88, Number 5, pp. 375 - 382, June 2006.
- [37] Karimi, H.R., **Yazdanpanah, M.J.**, R. V. Patel and K. Khorasani, "Modeling And Control Of Linear Two-time Scale Systems: Applied To Single-link Flexible Manipulator", *Journal of Intelligent & Robotic Systems*, Volume 45, Number 3, pp.235 - 265, June 2006.
- [38] Sheikholeslami, N., Shahmirzadi, D., Semsar, E., Lucas, E. and **Yazdanpanah, M.J.** "Applying Brain Emotional Learning Algorithm for Multivariable Control of HVAC Systems", *Journal of Intelligent and Fuzzy Systems*, Volume 17, Number 1, pp. 35-46, 2006.
- [39] Amjadifard, R., Beheshti, M.T.H., **Yazdanpanah, M.J.**, and Momeni, H.R., "Robust Regulation of a Flexible Joint Robot Manipulator using Slow-Fast Decomposition", (In Farsi) *Journal of School of Engineering*, Ferdowsi University of Mashhad, Vol. 17, No. 2, pp. 49-63, 2005.
- [40] **Yazdanpanah, M.J.**, Madanian, E. and , A.M. "Channel Assignment in Cellular Communications Using a New Modification on Hopfield Networks", *Iranian Journal of Science & Technology*, Vol. 29, No. B4, 2005.
- [41] Esna Ashari, A., Khaki Sedigh, A., and **Yazdanpanah, M.J.**, "Reconfigurable control system design using eigenstructure assignment: static, dynamic and robust approaches", *International Journal of Control*, Volume 78, Number 13, 10 September 2005, Pages: 1005 - 1016.
- [42] Karimi, H.R. and **Yazdanpanah, M.J.**, "Robust control for a class of uncertain state-delayed singularly perturbed systems", *Asian Journal of Control*, Volume: 7, Issue Number: 2, Page(s): 202-208, June 2005.
- [43] Afkhami, S., Jabedar Maralani, P. and **Yazdanpanah, M.J.**, "Stabilization and Improvement of Performance by Extension of Universal Formula in the Presence of Disturbance", *IEE Proceedings-Control Theory and Applications*, Volume 152, Issue 2, 4 March 2005, Page(s):229 - 237.

- [44] Amjadifard, R., Beheshti, M.T.H. and **Yazdanpanah, M.J.**, “Robust Regulation Of A Class Of Nonlinear Systems Using Singular Perturbation Approach ”, *Amirkabir Journal of Science & Technology*, Vol. 15/No. 60-A/(Electrical Engineering), Fall-Winter 2004-2005.
- [45] Adhami Mirhoseini, A., and **Yazdanpanah, M.J.**, “Output Regulation of Perturbed Nonlinear Systems by Nested Sliding Mode Control”, *Transactions On Engineering, Computing And Technology*, V1, December 2004, ISSN 1305-5313, Pages: 44-47.
- [46] Hatami Yazd, M. and **Yazdanpanah, M.J.**, “Forecasting Stock Price Direction Using a Neural Network Predictor ”, *Review of Business Research*, Vol. II, No. 1, pp. 126133, 2004.
- [47] Hosseini, S.M.K., Zarei-Hanzaki, A., **Yazdanpanah, M.J.**, and Yue, S., “ANN model for prediction of the effects of composition and process parameters on tensile strength and percent elongation of Si–Mn TRIP steels”, *Journal of Materials Science and Engineering A*, Vol. 374, pp. 122-128 (15 June 2004).
- [48] **Yazdanpanah, M.J.** and Siahkollah, B., “Robust Control of Single-Phase PWM Inverters using  $H_\infty$  Techniques”, (In Farsi), *International Journal of Engineering Science*, Spring 2003.
- [49] **Yazdanpanah, M.J.** and Fallah, E., “The Design of PSS using Nonlinear Optimal Control”, (In Farsi), *Amirkabir Journal of Science & Technology*, Vol. 13, No. 52, pp. 525-536, Fall 2002.
- [50] Karimi, H.R. and **Yazdanpanah, M.J.**, “Robust Stability Analysis of Singularly Perturbed Systems Using the Structured Singular Values Approach”, *Scientia Iranica*, Volume 9, Number 4, Fall 2002.
- [51] Bahrami, A. and **Yazdanpanah, M.J.**, “Design of A Conventional Controller under Mixed  $H_2/H_\infty$  Criterion using Genetic Algorithm”, (In Farsi) *Journal of School of Engineering*, Ferdowsi University of Mashhad, Vol. 14, No. 1, 2002.
- [52] **Yazdanpanah, M.J.** and Karimi, H.R., “The Design of  $H_\infty$  Controller for Robust Regulation of Singularly Perturbed Systems”, (In Farsi) *Amirkabir Journal of Science & Technology*, Vol. 13, No. 49, pp. 9-23, Winter 2002.
- [53] Karimi, H.R. and **Yazdanpanah, M.J.**, “Robust Stability and Disturbance Attenuation for a Class of Uncertain Singularly Perturbed Systems”, *Transactions on Control, Automation and Systems Engineering*, Vol. 3, No.3, September 2001.
- [54] **Yazdanpanah, M.J.**, Khorasani, K. and Patel, R.V., “On the Estimate of the Domain of Validity in Nonlinear  $H_\infty$  Control”, *International Journal of Control*, special issue on *Breakthroughs in the Control of Nonlinear Systems*, Vol. 72, No. 12, pp. 1097-1105, August 1999.
- [55] **Yazdanpanah, M.J.**, Khorasani, K. and Patel, R.V., “Uncertainty Compensation for a Flexible-Link Manipulator using Nonlinear  $H_\infty$  Techniques”, *International Journal of Control*, Vol. 69, No. 6, pp. 753-771, 1998.
- [56] **Yazdanpanah, M.J.** and Lucas, C. “Transient Stability of Power Systems” (In Farsi), *Ferdowsi University Magazine*, Mashad, Iran, 1988.

Conference, June 27-June 29, 2012, Fairmont Queen Elizabeth, Montréal, Canada

- [58] Sharbafi, M.A., **Yazdanpanah, M.J.**, and Nili Ahmadabadi, M., “Controllers for Robust Hopping with Upright Trunk based on the Virtual Pendulum Concept”, the 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2012), October 7-12, 2012, Vilamoura, Algarve [Portugal]
- [59] Karami, A., and **Yazdanpanah, M.J.**, “Structured Wavelet-based Neural Network for Control of Nonlinear Systems”, In the Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference, December 12-15, 2011, Hilton Orlando Bonnet Creek, Orlando, Florida, USA.
- [60] Adhami-Mirhosseini, A., Aguiar, A.P., and **Yazdanpanah, M.J.**, “Seabed Tracking of an Autonomous Underwater Vehicle with Nonlinear Output Regulation”, In the Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference, December 12-15, 2011, Hilton Orlando Bonnet Creek, Orlando, Florida, USA.
- [61] Tayyebi, A.H., Homayouni, S., Shan, J., **Yazdanpanah, M.J.**, Pijanowski, B.C., and Tayyebi, A., “Multi-Scale Analysis Approach of Simulating Urban Growth Pattern using a Land Use Change Model”, In the Proceedings of the 7th International Symposium on Spatial Data Quality (ISSDQ 2011), Coimbra, Portugal, October 12-14, 2011.
- [62] Tayyebi, A.H., Homayouni, S., Shan, J., **Yazdanpanah, M.J.**, Pijanowski, B.C., and Tayyebi, A., “Uncertainty Framework in Land Use Change Models: An Application of Data, Model Parameter and Model Outcome Uncertainty in Land Transformation Model”, In the Proceedings of 7th International Symposium on Spatial Data Quality (ISSDQ 2011), Coimbra, Portugal, October 12-14, 2011.
- [63] Tayyebi, A.H., Homayouni, S., Shan, J., **Yazdanpanah, M.J.**, Pijanowski, B.C., and Tayyebi, A., “Model Parameter Uncertainty Assessment in the Land Transformation Model”, In the Proceedings of 7th International Symposium on Spatial Data Quality (ISSDQ 2011), Coimbra, Portugal, October 12-14, 2011.
- [64] Montaseri, Gh., **Yazdanpanah, M.J.**, and Amiri, M. “Astrocyte-Inspired Controller Design for Desynchronization of Two Coupled Limit-Cycle Oscillators”, In the Proceedings of IEEE Conference on Nature and Biologically Inspired Computing, 19-21 October, 2011, Spain
- [65] Khailaie, S., Adhami-Mirhosseini, A., and **Yazdanpanah, M.J.**, “Analytic Approximate Solution to the Nonlinear Output Regulation Problem Using Galerkin Approximation Method”, In the Proceedings of the 18th IFAC World Congress, Milano (Italy), August 28 - September 2, 2011
- [66] Agahi, H., and **Yazdanpanah, M.J.**, “Set-point Regulation of Constrained Strongly Monotone Systems”, In the Proceedings of the 18th IFAC World Congress, Milano (Italy), August 28 - September 2, 2011
- [67] Sharbafi, M.A., **Yazdanpanah, M.J.**, and Nili Ahmadabadi, M., “Increasing the Robustness of Acrobot walking control using compliant mechanisms”, 2011 IEEE/RSJ International Conference on Intelligent Robots and Systems, September 25-30, 2011, San Francisco, California
- [68] Mobayen, M.A., **Yazdanpanah, M.J.**, and Johari Majd, V., “A Finite-Time Tracker for Nonholonomic Systems Using Recursive Singularity-Free FTSM”, 2011 American Control Conference - ACC 2011, San Francisco, California, USA, June 29 - July 1, 2011

- [69] Atashzar, S.F., Talebi, H.A., **Yazdanpanah, M.J.**, and Towhidkhal, F., "Tip Position Tracking of Flexible-Link Manipulators Based on Online Robust Trajectory Modification", In the Proceedings of the IECON 2010 - 36th Annual Conference on IEEE Industrial Electronics Society, Glendale, AZ, 7-10 Nov. 2010
- [70] Farjadian, A.B., and **Yazdanpanah, M.J.**, "Chattering Reduction by the means of Intelligent Sliding mode Controller", International Conference on Control, Automation and Systems (ICCAS 2010), October 27-30, 2010 KINTEX, Gyeonggi-do, KOREA
- [71] Roshani Tabrizi, P., Rezaatofghi, S. H., and **Yazdanpanah, M.J.**, "Using PCA and LVQ Neural Network for Automatic Recognition of Five Types of White Blood Cells", 32nd Annual International IEEE EMBS Conference, August 31-September 4, 2010, Buenos Aires Sheraton Hotel, Buenos Aires, Argentina
- [72] Shahbazi, M., Talebi, A., and **Yazdanpanah, M.J.**, "A Control Architecture for Dual User Teleoperation with Unknown Time Delays: A Sliding Mode Approach", In the Proceedings of 2010 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, July 6-9, 2010, Montréal, Canada
- [73] Naderi, R., **Yazdanpanah, M.J.**, Azemi, A., and Nazem Roaya, B. "Tracking Normal Action Potential Based on the FHN Model Using Adaptive Feedback Linearization Technique", In the Proceedings of the 2010 IEEE Multi-conference on Systems and Control, September 8-10, 2010, Yokohama, Japan
- [74] Tayyebi, A., Delavar, M. R., Pijanowski, B.C, and **Yazdanpanah, M.J.**, "Accuracy Assessment in Urban Expansion Model", In the Proceedings of the 6<sup>th</sup> International Symposium on Spatial Data Quality (ISSDQ) held July 5-8 2009, in St. John's, Newfoundland and Labrador, Canada. Reprinted in a revised version in "*Spatial data quality: from process to decisions* / edited by *Rodolphe Devillers, Helen Goodchild*", Taylor and Francis, CRC Press, Canada, pp. 107-115.
- [75] Tayyebi, A., Delavar, M. R., Pijanowski, B.C., and **Yazdanpanah, M.J.**, "Spatial variability of errors in Urban Expansion Model: Implications for error propagation", In the Proceedings of the 6<sup>th</sup> International Symposium on Spatial Data Quality (ISSDQ) held July 5-8 2009, in St. John's, Newfoundland and Labrador, Canada. Reprinted in a revised version in "*Spatial data quality: from process to decisions* / edited by *Rodolphe Devillers, Helen Goodchild*", Taylor and Francis, CRC Press, Canada, pp. 134-135.
- [76] Naderi, R., Azemi, A., and **Yazdanpanah, M.J.** "Control of Heart Conduction System Arrhythmia by Means of Sliding Mode Scheme", In the Proceedings of the 17th Mediterranean Conference on Control and Automation, June 24-26, 2009, Makedonia Palace, Thessaloniki, Greece.
- [77] Tayyebi, A., Delavar, M. R., Saeedi, S., and **Yazdanpanah, M.J.**, "A spatial logistic regression model for simulating land use patterns: A case study: Shiraz metropolitan area", In the Proceedings of the 2nd international conference on earth observation for global changes (EOGC 2009), Cichuan, China, 25-29 May 2009.
- [78] Farrokh Payam, A., Fathipour, M., and **Yazdanpanah, M.J.** "A Backstepping Controller for Piezoelectric Actuators with Hysteresis in Nanopositioning", In the Proceedings of the 4th IEEE-NEMS, Shenzhen, China, January 5-8, 2009.
- [79] Farrokh Payam, A., Fathipour, M., and **Yazdanpanah, M.J.** "Design of a Feedforward Controller for AFM Nanopositioning Based on Neural Network

Control Theory”, In the Proceedings of the 4th IEEE-NEMS, Shenzhen, China, January 5-8, 2009.

- [80] Farrokh Payam, A., Fathipour, M., and **Yazdanpanah, M.J.** “Design of a Hybrid Control System for Atomic Force Microscope Using Adaptive Nonlinear Observer and Backstepping Controller”, In the Proceedings of the 2nd International Congress on Nanoscience and Nanotechnology (ICNN2008), 28-30 October 2008, University of Tabriz, Tabriz, Iran.
- [81] Montaseri, G., **Yazdanpanah, M.J.** and A. Khaki-Sedigh, "Passivity-based structured model predictive control with guaranteed stability," IEEE International Conference on Control, Automation and Systems, 14-17 October 2008, Korea.
- [82] Farrokh Payam, A., Fathipour, M., and **Yazdanpanah, M.J.** “Design a backstepping controller for atomic force microscope”, In the Proceedings of the 5th International Conference – NN08 & 2nd International Summer School – SS-NN08 on Nanosciences & Nanotechnologies, Aristotle University of Thessaloniki, 14-16 July 2008.
- [83] Ghafarri-Kashani, A., **Yazdanpanah, M.J.**, and Faiz, J.. “Robust Speed Control Of Pmsm Using Mixed Nonlinear  $H_{\infty}$  /SMC Techniques”, In the Proceedings of 17th World Congress The International Federation of Automatic Control (IFAC), Seoul, Korea, July 6-11, 2008
- [84] Montaseri, Gh., and **Yazdanpanah, M.J.** “A Model Predictive Control Approach to Predict Sliding Surface”, In the Proceedings of 17th World Congress The International Federation of Automatic Control (IFAC), Seoul, Korea, July 6-11, 2008
- [85] Keighobadi, J., Kabganian, M., and **Yazdanpanah, M.J.** “Design and Real Time Implementation of a Fuzzy Tuned  $H_{\infty}$  Estimator in a Low Cost AHRS”, In the Proceedings of 17th World Congress The International Federation of Automatic Control (IFAC), Seoul, Korea, July 6-11, 2008
- [86] Bavafa, E., and **Yazdanpanah, M.J.**, and Kalaghchi, B. “Chemotherapy Using Linear Analysis And Swarm Intelligence”, In the Proceedings of 17th World Congress The International Federation of Automatic Control (IFAC), Seoul, Korea, July 6-11, 2008
- [87] Sarabi-Jamab, A., and **Yazdanpanah, M.J.** “Feedback Linearization–Based Control for a Class of Chemical Processes in Non-Standard Nonlinear Singular Perturbation Form”, In the Proceedings of 17th World Congress The International Federation of Automatic Control (IFAC), Seoul, Korea, July 6-11, 2008
- [88] Razi, K., **Yazdanpanah, M.J.**, and Shiry Ghidary, S. “Nonlinear  $H_{\infty}$  Control of a Bilateral Nonlinear Teleoperation System”, In the Proceedings of 17th World Congress The International Federation of Automatic Control (IFAC), Seoul, Korea, July 6-11, 2008
- [89] Amiri, M., Menhaj, M. B., and **Yazdanpanah, M. J.**, “A neural-network-based controller for a single-link flexible manipulator: Comparison of FFNN and DRNN controllers”, Proceedings of the International Joint Conference on Neural Networks, IJCNN 2008, part of the IEEE World Congress on Computational Intelligence, WCCI 2008, Hong Kong, China, June 1-6, 2008 IJCNN 2008: 1686-1691
- [90] Ghafari, A., and **Yazdanpanah, M.J.**, “Nonlinear sliding surfaces; Computing and existence of solution”, Proceedings of the International Conference on

Control, Automation and Systems (ICCAS), 2008. COEX (Convention & Exhibition), Seoul, Korea, 14-17 October, 2008.

- [91] Ghafari, A., and **Yazdanpanah, M.J.**, “Computing Optimized Nonlinear Sliding Surfaces” Proceedings of the 2008 Chinese Control and Decision Conference (CCDC), Yan Tai Orient Haitian Hotel, Yantai, China, 2–4 July, 2008.
- [92] Shirani, F., Nadjar Araabi, B., and **Yazdanpanah, M.J.**, and “Fuzzy Modelling of Nonlinear Systems for Stability Analysis Based on Piecewise Quadratic Lyapunov Functions”, Proceedings of the 2008 IEEE World Congress on Computational Intelligence (WCCI'08), Hong Kong, June 1-6, 2008
- [93] Amiri, M., **Yazdanpanah, M.J.**, and Sadeghian, A. “A Simple And Efficient Training Algorithm To Store Desired Number Of Stable Equilibrium Points In Self-feedabck Neural Network Structures”, Proceedings of the 3rd International Conference on Natural Computation (ICNC'07), Haikou, China, 24- 27 August 2007.
- [94] Shirani, F., **Yazdanpanah, M.J.**, and Nadjar Araabi, B., “Fuzzy-Model-Based Exponentially Stabilizing Nonlinear Systems in the Presence of Modeling Error”, Proceedings of the 2007 IEEE International Conference on Systems, Man and Cybernetics (SMC 2007), Oct. 7-10, 2007, Delta Centre-Ville, Montreal, Quebec, Canada.
- [95] Razi, K., **Yazdanpanah, M.J.**, Shiry, S., Rezaie, M., Seifabadi, R., Habibollahi Najafabadi, H., and Zareinejad, M., “Position Coordination of a Linear Teleoperation System with Constant Time Delay”, Proceedings of the 2007 IEEE/RSJ International Conference on Intelligent Robots and Systems, Oct 29 - Nov 2, 2007, Sheraton Hotel, San Diego, CA, USA
- [96] Hashemzadeh, F., and **Yazdanpanah, M.J.**; “Semi-global enlargement of domain of attraction for a class of affine nonlinear systems”, Proceedings of the 2006 IEEE International Symposium on Intelligent Control Munich, Germany, October 4-6, 2006
- [97] Orafa, S., **Yazdanpanah, M.J.**, Lucas, C., Rahimikian, A., and Nili Ahmadabadi, M.; “Development of reinforcement learning methods in control and decision making in the large scale dynamic game environments”, Proceedings of the 2006 IEEE International Symposium on Intelligent Control, Munich, Germany, October 4-6, 2006
- [98] Bavafa, E.; and **Yazdanpanah, M.J.**; “Image Compression using An Enhanced Self Organizing Map Algorithm with Vigilance Parameter”, 2006 IEEE World Congress on Computational Intelligence, (WCCI'06), 16-21 July 2006, Vancouver, BC, Canada.
- [99] Farahmand, A.M.; and **Yazdanpanah, M.J.**; “Channel Assignment using Chaotic Simulated Annealing Enhanced Hopfield Neural Network”, 2006 IEEE World Congress on Computational Intelligence, (WCCI'06), 16-21 July 2006, Vancouver, BC, Canada.
- [100] Abbasian, T.; Salmasi, F.R.; **Yazdanpanah, M.J.**; “Improved adaptive feedback linearization control of induction motors based on online estimation of core loss and rotor resistance”, International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2006, May, 23rd - 26th, 2006, Taormina (Sicily)- Italy.
- [101] Aliyari shoorehdeli, M., Aliyari shoorehdeli, H., Teshnehlab, M., and **Yazdanpanah, M.J.**; “Velocity Control of an Electro Hydraulic Servosystem”,

2006 IEEE International Conference On Networking, Sensing and Control Ft. Lauderdale, Florida, U.S.A. April 23-25, 2006 .

- [102]Farahmand, A.M.; and **Yazdanpanah, M.J.**; “Locally Optimal Takagi-Sugeno Fuzzy Controllers”, Proceedings of the 44th IEEE Conference on Decision and Control, and the European Control Conference, Spain, December 12-15, 2005.
- [103]Abbasian, T.; Salmasi, F.R.; **Yazdanpanah, M.J.**, and Zamanifar, M.; “Torque Control of Sensorless IM Based on Adaptive Feedback Linearization with Unknown Stator and Rotor Resistances in Consideration of Core Loss”, 2005 International Conference on Power Electronics and Drive Systems, PEDS 2005, 28 Nov – 1 Dec 2005, Kuala Lumpur, Malaysia
- [104]Khodayari, S.; **Yazdanpanah, M.J.**; “Network Routing Based on Reinforcement Learning in Dynamically Changing Networks”, 2005. ICTAI 05. 17th IEEE International Conference on Tools with Artificial Intelligence, 14-16 Nov. 2005 Page(s):362 - 366.
- [105]Abbasian, T.; Salmasi, F.R.; **Yazdanpanah, M.J.**; “Stability analysis of sensorless IM based on adaptive feedback linearization control with unknown stator and rotor resistances”, 2005 IEEE Industry Applications Conference, Fourtieth IAS Annual Meeting., Volume 2, 2-6 Oct. 2005, Page(s):985-992 Vol. 2
- [106]Dehghani, M., **Yazdanpanah, M.J.**; “Model Reduction Based on the Frequency Weighted Hankel-Norm Using Genetic Algorithm and Its Application to the Power Systems”, Proceedings of the 2005 IEEE International Conference on Control Applications, Toronto, Canada, August 28-31, 2005.
- [107]Adhami-Mirhosseini, A., and **Yazdanpanah, M.J.**, “Locally Constrained Optimal and Globally Stable Backstepping Design”, In the Proceedings of 16th IFAC World Congress, 4-8 July, 2005, Prague, Czech Republic .
- [108]Yaghoubi Waskasi, M., **Yazdanpanah, M.J.**, and Yazdani N. “A New Active Queue Management Algorithm based on Neural Networks PI”, In the Proceedings of 16th IFAC World Congress, 4-8 July, 2005, Prague, Czech Republic .
- [109]Semsar, E., **Yazdanpanah, M.J.**, and Lucas, C. “Nonlinear Control, Disturbance Decoupling and Load Estimation in HVAC Systems”, In the Proceedings of 16th IFAC World Congress, 4-8 July, 2005, Prague, Czech Republic .
- [110]Karimi, H. R., and **Yazdanpanah, M.J.**, “A Singularly Perturbed Model for Robust Control of Linear Single-Link Flexible Manipulator”, In the Proceedings of 16th IFAC World Congress, 4-8 July, 2005, Prague, Czech Republic .
- [111]Tavassoli, B., and **Yazdanpanah, M.J.**, “Robust Control of Time Delay Systems through a Structured Uncertainty Approach”, In the Proceedings of 16th IFAC World Congress, 4-8 July, 2005, Prague, Czech Republic .
- [112]Amjadifard, R., **Yazdanpanah, M.J.**, and Beheshti Mohammad T. H. “Robust Regulation of a Class of Nonlinear Singularly Perturbed Systems”, In the Proceedings of 16th IFAC World Congress, 4-8 July, 2005, Prague, Czech Republic .
- [113]Ashari, A.E., and **Yazdanpanah, M.J.**, “Reconfigurable Sliding-Mode Control Design using Genetic Algorithms and Eigenstructure Assignment”, In the Proceedings of The Fifth International Conference on Control and Automation (ICCA 2005), 27-29 June 2005, Hungarian Academy of Science, Budapest, Hungary.

- [114]Adhami-Mirhosseini, A., and **Yazdanpanah, M.J.**, “Robust Tracking of Perturbed Nonlinear Systems by Nested Sliding Mode Control”, In the Proceedings of The Fifth International Conference on Control and Automation (ICCA 2005), 27-29 June 2005, Hungarian Academy of Science, Budapest, Hungary.
- [115]Adhami-Mirhosseini, A., Namaki-Shoushtari, O., and **Yazdanpanah, M.J.**, “A new Approach to  $H_{\infty}$  Controller Design with Regional Pole Assignment”, In the Proceedings of The Fifth International Conference on Control and Automation (ICCA 2005), 27-29 June 2005, Hungarian Academy of Science, Budapest, Hungary.
- [116]Bakhtiari, R., and **Yazdanpanah, M.J.**, “Designing a Linear Controller for Polynomial Systems with the Largest Domain of Attraction via LMIs”, In the Proceedings of The Fifth International Conference on Control and Automation (ICCA 2005), 27-29 June 2005, Hungarian Academy of Science, Budapest, Hungary.
- [117]Esna Ashari, A., Khaki Sedigh, A., and **Yazdanpanah, M.J.**, “Output Feedback Reconfigurable Controller Design using Eigenstructure Assignment: Post-Fault Order Change”, In the Proceedings of The Fifth International Conference on Control and Automation (ICCA 2005), 27-29 June 2005, Hungarian Academy of Science, Budapest, Hungary.
- [118]Mohammadi-Milasi, R., **Yazdanpanah, M.J.**, and Lucas, C. “Modeling and Control of Washing Machine Based on approximate Solution of HJB Equation”, In the Proceedings of The Fifth International Conference on Control and Automation (ICCA 2005), 27-29 June 2005, Hungarian Academy of Science, Budapest, Hungary.
- [119]Hatami Yazd, M. and **Yazdanpanah, M.J.**, “More Efficient Portfolio in Markowitz Portfolio Selection Problem”, Optimization Conference, Sponsored by the SIAM Activity Group on Optimization, May 15-19, 2005, Stockholm, Sweden.
- [120]Adhami Mirhoseini, A., and **Yazdanpanah, M.J.**, “Output Regulation of Perturbed Nonlinear Systems by Nested Sliding Mode Control”, International Conference on Computational Intelligence (ICCI 2004), December 17-19, 2004, Istanbul, Turkey.
- [121]Ashari, A.E., and **Yazdanpanah, M.J.**, “Reduced-order observer based  $H_{\infty}$  controller design for two nonstandard problems”, 43rd IEEE Conference on Decision and Control (CDC'04), Volume 2, 14-17 Dec. 2004, Page(s):1730-1735.
- [122]Ebrahimirad, H., and **Yazdanpanah, M.J.**, Kazemi, R., and Rafimanzelat, M. “A New Sliding Mode Four Slip Control Of Anti-Lock Brake Systems”, In the Proceedings of IMEC2004 (International Mechanical Engineering Conference), Dec. 5-8, 2004, Kuwait.
- [123]AkbariMajd, A., **Yazdanpanah, M.J.**, and KarimianKhosrowshahi, G., “Tracking Control of A Mobile Robot Using A Genetically Tuned Mixed  $H_2/H_{\infty}$  Adaptive Technique”, Proceedings of the 2004 IEEE Conference on Robotics, Automation and Mechatronics Singapore, 1-3 December, 2004..
- [124]Emadi, M., Bahrami, F., **Yazdanpanah, M.J.**, and Patla, A., “Movement prediction using an mlp without internal feedback”, International Conference on Systems, Man and Cybernetics (IEEE SMC 2004), The Hague, The Netherlands, Volume 6, 10-13 Oct. 2004 Page(s):5975 - 5979.

- [125]Fakharian, A., **Yazdanpanah, M.J.**, and Akhbardeh, A., "Design Of a Nonlinear Optimal Controller for Active Suspension System in Order to Vertical Motion Control of Automotive," 5th international workshop on research and education in mechatronics (Rem 2004), Poland, 2004
- [126]Emadi M., Bahrami F., **Yazdanpanah M.J.**, "Simulation of the STS Transfer Using a MLP without Embedded Internal Feedback", 8<sup>th</sup> Vienna International Workshop on Functional Electrical Stimulation, September 10-13 2004, Vienna, Austria.
- [127]Mohammadi-Milasi, R.; **Yazdanpanah, M.J.**; Jabehdar-Maralani, P.; "A novel adaptive gain-scheduling controller for synchronous generator", Proceedings of the 2004 IEEE International Conference on Control Applications, Volume 1, 2-4 Sept. 2004, Page(s):800 - 805.
- [128]Ashari, A.E., and **Yazdanpanah, M.J.**, "Observer-based Model Reference Sliding-mode Control Of Active Suspension Systems", 6th IFAC-Symposium on Nonlinear Control Systems (NOLCOS 2004), Sept. 01 – 03, 2004, Germany.
- [129]Amani, A.M.; Sedigh, A.K.; **Yazdanpanah, M.J.**, "A QFT approach to robust control of automobiles active suspension", 5th Asian Control Conference, 2004, Volume 1, 20-23 July 2004 Page(s):604 - 610.
- [130]Rafimanzelat, M.R.; **Yazdanpanah, M.J.**; "A novel low chattering sliding mode controller", 5th Asian Control Conference, 2004, Volume 3, July 20-23, 2004 Page(s):1958 - 1963.
- [131]Afkhami S., **Yazdanpanah M.J.**, and Jabehdar Maralani, P., "Nonlinear Control of the Double Inverted Pendulum", In the proceedings of the The 12th Mediterranean Conference on Control and Automation (MED'04), Aydin, Turkey, June 6-9, 2004.
- [132]Afkhami, S., Jabehdar Maralani, P. and **Yazdanpanah, M.J.**, "Stabilization Of Double Inverted Pendulum On A Cart By Using Integral-input-to-state-stability Concept", In the Proceedings of the 23rd IASTED International Conference Modelling, Identification, And Control, Feb. 23-25, Grindelwald, Switzerland.
- [133]Amjadi-fard, R., Beheshti, M.T.H., **Yazdanpanah, M.J.**, Momeni, H.R., "Robust Regulation of Synchronous Generator Parameters Using Singular Perturbation Approach", Proceeding of III Int'l Conf. on System Identification and Control Problems, Jan 2004, Moscow-Russia, pp 1288-1294.
- [134]**Yazdanpanah, M.J.**, and Karimiankhosrowshahi, G. "Robust Control of Mobile Robots Using Computed Torque Plus H-Infinity Compensation Method", In the Proceedings of the 42nd IEEE Conference on Decision and Control (CDC), Hawaii, USA, December 9-12, 2003.
- [135]**Yazdanpanah, M.J.**, and Jalili-Kharaajoo, M. "Optimal Nonlinear Transient Control with Neuro-AVR of Single-Machine Infinite-Bus Power Systems", In the Proceedings of the 42nd IEEE Conference on Decision and Control (CDC), Hawaii, USA, December 9-12, 2003.
- [136]Afkhami, S., Jabehdar Maralani, P. and **Yazdanpanah, M.J.**, "Generalization of CLF-based nonlinear control systems", in the proceedings of The 4th IFAC workshop on time delay sytems, September 8-10, 2003, INRIA, Rocquencourt, France.
- [137]Gholipour, A., and **Yazdanpanah, M.J.** "Dynamic Tracking Control Of Nonholonomic Mobile Robot With Model Reference Adaptation For Uncertain

Parameters”, In the proceedings of TheEuropean Control Conference (ECC 03), September 1-4, 2003, University of Cambridge, UK.

- [138]Jalili Kharaajoo, M., and **Yazdanpanah, M.J.**, “Transient Control And Voltage Regulation Of Power Systems Using Approximate Solution Of Hjb Equation ”, In the proceedings of TheEuropean Control Conference (ECC 03), September 1-4, 2003, University of Cambridge, UK .
- [139]Vasegh, N. and **Yazdanpanah, M.J.** “Fault Detection and Isolation on Flexible-Joint Manipulators”, In the proceedings of TheEuropean Control Conference (ECC 03), September 1-4, 2003, University of Cambridge, UK .
- [140]**Yazdanpanah, M.J.**, Semsar, E., and Lucas, C. “Minimization Of Actuator Repositioning Using Neural Networks With Application In Nonlinear HVAC Systems”, In the proceedings of TheEuropean Control Conference (ECC 03), September 1-4, 2003, University of Cambridge, UK .
- [141]**Yazdanpanah, M.J.**, and Ghafari, A. “Modification of Sliding Mode Controller by Neural Network with Application to a Flexible-link”, In the proceedings of TheEuropean Control Conference (ECC 03), September 1-4, 2003, University of Cambridge, UK .
- [142]Amjadifard, R., **Yazdanpanah, M.J.**, and Beheshti, M.T.H., “Robust Regulation Of A Class Of Nonlinear Systems Using Singular Perturbation Approach ”, In the proceedings of TheEuropean Control Conference (ECC 03), September 1-4, 2003, University of Cambridge, UK .
- [143]Ghaemi, R. Nili Ahmadabadi, M. and **Yazdanpanah, M.J.**, “Adaptive robust force tracking impedance control of redundant manipulators based on sliding mode control”, in the Proceedings of ICAR 2003, The 11th International Conference on Advanced Robotics, Portugal, June 30-July 3, 2003
- [144]**Yazdanpanah, M.J.**, Semsar, E., and Lucas, C., “Minimization of Actuator Repositioning in Delayed Processes Using Flexible Neural Networks”, In the proceedings of the 2003 IEEE International Conference on Control Applications, Turkey, June 23-25, 2003.
- [145]**Yazdanpanah, M.J.**, and Kalhor, A., “Air/Fuel Ratio Control in SI1 Engines Using a Combined Neural Network & Estimator”, In the proceedings of the 2003 IEEE International Conference on Control Applications, Turkey, June 23-25, 2003.
- [146]Amani, A.M., **Yazdanpanah, M.J.**, and Sedigh, A.K. “Performance Improvement of Active SuspensionSystem using Mixed  $H_2/H_\infty$  Technique”, In the proceedings of the 2003 IEEE International Conference on Control Applications, Turkey, June 23-25, 2003.
- [147]Semsar, E., **Yazdanpanah, M.J.**, and Lucas, C., “Nonlinear Control and Disturbance Decoupling of an HVAC System via Feedback Linearization and Back-Stepping”, In the proceedings of the 2003 IEEE International Conference on Control Applications, Turkey, June 23-25, 2003.
- [148]Afkhami, S., **Yazdanpanah, M.J.**, and Jabedar Maralani, P. “Stabilization of Inertia Wheel Pendulum using Output Feedback Back-stepping”, In the proceedings of the 2003 IEEE International Conference on Control Applications, Turkey, June 23-25, 2003.
- [149]Kharaajoo, M.J., Ebrahimrad, H., **Yazdanpanah, M.J.**, and Labibi, B., “Discrete-time sliding mode position control of an induction motor ”, 4th IFAC Symposium on Robust Control Design (ROCOND 2003), Italy, June 25-27, 2003

- [150]Ebrahimrad, H., Kharaajoo, M.J., **Yazdanpanah, M.J.**, and Labibi, B., "Feedback linearization with sliding mode control of current arc length in GMAW systems ", 4th IFAC Symposium on Robust Control Design (ROCOND 2003), Italy, June 25-27, 2003
- [151]Hatami, S.; **Yazdanpanah, M.J.**; Forozandeh, B.; Fatemi, O.; "A modified method for codebook design with neural network in VQ sed image compression", 2003. ISCAS '03. Proceedings of the 2003 International Symposium on Circuits and Systems, Volume 2, 25-28 May 2003 Page(s):II-612 - II-615 vol.2
- [152]Farahmand, M., Lucas, C. and **Yazdanpanah, M.J.**, "Application of Fuzzy Logic and Optimal Control Design to an Automotive Active Suspension System", ICONS 2003 (IFAC International Conf. on Intelligent Control Systems), April 08-11, 2003, Portugal.
- [153]**Yazdanpanah, M.J.**, Semsar, E., and Siahkollah, B., "An H-infinity Robust Controller for Single-Phase PWM Inverters", In the proceedings of the 15th IFAC World Congress, July 21-26, 2002, Barcelona, Spain.
- [154]Orafa, S. and **Yazdanpanah, M.J.**, "Feedback Linearization using a Minimized Structure Neural Network", In the proceedings of the 15th IFAC World Congress, July 21-26, 2002, Barcelona, Spain.
- [155]Karimi, H. R., **Yazdanpanah, M. J.**, "Robust Control For A Class Of Uncertain State-Delayed Singularly Perturbed Systems", In the proceedings of the 15th IFAC World Congress, July 21-26, 2002, Barcelona, Spain.
- [156]Mohammadpour, J. and **Yazdanpanah, M.J.**, "Mixed H<sub>2</sub>/H<sub>∞</sub> Criterion For Optimal Adaptive Filtering" In the proceedings of the 10th Mediterranean Conference on Control and Automation - (MED2002), Lisbon, Portugal, July 9-12, 2002.
- [157]Mohammadpour, J., **Yazdanpanah, M.J.** and Gholami, M. R., "Mixed H<sub>2</sub>/H<sub>∞</sub> Estimation: Posteriori and Priori Adaptive Filtering." In the proceedings of the International Conference Of Communications, Circuits And Systems & West Sino-exposition 2002 (Iccas & Wesino Expo'02) Chengdu, China, June 29-July 1, 2002.
- [158]Zarifi, K. and **Yazdanpanah, M.J.**, "Two Approximate Solutions to HJI Equation via State Dependent Riccati Equation", In the proceedings of the 6th European Control Conference (ECC 01), September 4-7, 2001, Porto, Portugal.
- [159]Tavassoli, B. and **Yazdanpanah, M.J.**, "Low-cost Rotating-engine Speed Control using Event-detection, in Presence of Uncertainties or Disturbances", In the proceedings of The 6th European Control Conference (ECC 01), September 4-7, 2001, Porto, Portugal.
- [160]Karimi, H.R. and **Yazdanpanah, M.J.**, "Robust Stability and Disturbance Attenuation for a Class of Uncertain Singularly Perturbed Systems", In the proceedings of The 6th European Control Conference (ECC 01), September 4-7, 2001, Porto, Portugal.
- [161]Karimi, H.R. and **Yazdanpanah, M.J.**, "Robust Stability Analysis of Singularly Perturbed Systems using The Structured Singular Values Approach", in the proceedings of The 9th Mediterranean Conference on Control and Automation (MED'01), Dubrovnik, Croatia, June 27-29, 2001
- [162]Afsahi, A. and **Yazdanpanah, M.J.**, "Nonlinear H<sub>∞</sub> Control using Neural Networks", in the proceedings of the IASTED Int. Conf. on Artificial Intelligence & Applications, September 4-7, 2001, Marbella, Spain.

- [163] Mohammadpur, J., Irannejad A., and **Yazdanpanah, M.J.**, “Genetic Algorithm Approach for Designing of Mixed  $H_2/H_\infty$  Controllers”, in the proceedings of 7th IEEE International Conference on Methods and Models in Automation and Robotics (MMAR 2001), Miedzyzdroje, Poland, 28-31 August 2001
- [164] **Yazdanpanah, M.J.** and Karimi, H., “Potentials of Pseudo Time Approach in Analysis of Time Varying and Uncertain Systems”, Sixth International Conference on Control, Automation, Robotics and Vision (ICARCV2000), 5-8 December 2000, Singapore.
- [165] Karimi, H., and **Yazdanpanah, M.J.**, “Robust Control of Singularly Perturbed Systems Based On A New Modeling Approach”, Sixth International Conference on Control, Automation, Robotics and Vision (ICARCV2000), 5-8 December 2000, Singapore.
- [166] Omid, M.R. and **Yazdanpanah, M.J.**, “Minimization of Actuator Repositioning Using Internal Model Control”, 4th Portuguese Conference on Automatic Control (CONTROLO,2000), 4-6 October 2000, Portugal.
- [167] Farahani, Sh, and **Yazdanpanah, M.J.**, “Stability Analysis of a Class of Nonlinear Uncertain Systems via Pseudo Time Approach”, 3rd IFAC RCOND Symposium, 21-23 June 2000, Prague, Czech Republic.
- [168] **Yazdanpanah, M.J.**, Khorasani, K. and Patel, R.V., “Comparison of Linear and Nonlinear  $H_\infty$  Control for a Flexible-Link Manipulator”, In the Proceedings of the 1998 American Control Conference (ACC’98), Philadelphia, USA, June 1998.
- [169] **Yazdanpanah, M.J.**, Khorasani, K. and Patel, R.V., “On the Domain of Validity of Nonlinear  $H_\infty$  Control”, In the Proceedings of the 36th IEEE Conference on Decision and Control (CDC), San Diego, California, 1997.
- [170] **Yazdanpanah, M.J.** Patel, R.V. and Khorasani, K., “Robust Regulation of a Flexible-Link Manipulator based on a new Modeling Approach”, In the Proceedings of the 36th IEEE Conference on Decision and Control (CDC), San Diego, California, 1997.

---

**National  
Conference Papers**

- [171] Deldar, P., Ardestani, P., Yousofi, M.A., and **Yazdanpanah, M.J.**, “Simulation of toxic gas dispersion in rescue simulator environment”, The Second National Conference on Crisis Management, 19-20 June, 2012, Hall of Ministry of Interior, Tehran, Iran
- [172] Tabatabaei, S.S., **Yazdanpanah, M.J.**, Tavazoei, M.S., Karimian, A., “On Dynamic Models of Human Emotion”, In the Proceedings of the 20<sup>th</sup> Iranian Conference on Electrical Eng. (ICEE 12), 15-17 May 2012, University of Tehran, Tehran, Iran.
- [173] Alizadeh, S., Adhami, A., and **Yazdanpanah, M.J.**, “Optimal Control of Drug Administration in Cancer Treatment via State-Dependent Riccati Equation (SDRE) Method”, In the Proceedings of the 20<sup>th</sup> Iranian Conference on Electrical Eng. (ICEE 12), 15-17 May 2012, University of Tehran, Tehran, Iran.
- [174] Pashazadeh, V., Adhami, A., and **Yazdanpanah, M.J.**, “Switching control in DC to DC converters based on Pontriagin principle and Bang-Bang technique”, In the Proceedings of the 20<sup>th</sup> Iranian Conference on Electrical Eng. (ICEE 12), 15-17 May 2012, University of Tehran, Tehran, Iran.

- [175]Kargar, S.M., Salahshour, K., and **Yazdanpanah, M.J.**, “Fault tolerant control of nonlinear systems with input constraints”, In the Proceedings of the 20<sup>th</sup> Iranian Conference on Electrical Eng. (ICEE 12), 15-17 May 2012, University of Tehran, Tehran, Iran.
- [176]Peimani, M., and **Yazdanpanah, M.J.** “Health monitoring of hysteretic base isolation systems” (In Farsi), In the Proceedings of CESC conference, 18-19 October 2011, The Academic Center for Education, Culture and Research (ACECR), Kerman Branch, Kerman, Iran.
- [177]Farrokh Payam, A., Fathipour, M., Abdel-Rahman, E.M., and **Yazdanpanah, M.J.** “Estimation of Sample-Tip Height in Non-Contact Mode Atomic Force Microscopy Using an Adaptive Nonlinear Observer”, In the Proceedings of the 17<sup>th</sup> Iranian Conference on Electrical Eng. (ICEE 09), 12-14 May 2009, University of Science and Technology, Tehran, Iran.
- [178]Farrokh Payam, A., Fathipour, M., and **Yazdanpanah, M.J.** “Atomic Force Microscope: Real Time Modeling, Control and Simulation”, In the Proceedings of the 16<sup>th</sup> Iranian Conference on Electrical Eng. (ICEE 08), 13-15 May 2008, Tarbiat Modares University, Tehran, Iran.
- [179]Afkhani, S., Tahersima, F., and **Yazdanpanah, M.J.** “Supervisory Control of Hybrid Systems Subject to Disturbances”, In the Proceedings of the 16<sup>th</sup> Iranian Conference on Electrical Eng. (ICEE 08), 13-15 May 2008, Tarbiat Modares University, Tehran, Iran.
- [180]Malekmohamadi, I., R. Ghiassi, R., and **Yazdanpanah, M.J.**, “Hindcasting of storm waves using neural networks”, in the proceedings of the second Disaster Management Conference, Center of Excellence in Geometric Engineering and Disaster Management, University of Tehran, Tehran, Iran, Dec., 25-26, 2007.
- [181]Shirani, F., Nadjar Araabi, B., and **Yazdanpanah, M.J.**, “Fuzzy Modeling of Nonlinear Systems for Stability Analysis and Estimation of Domain of Attraction” in the proceedings of First Joint Congress on Intelligent and Fuzzy Systems (ISFS2007), Ferdowsi University of Mashhad, Mashhad, Iran, August 29-31, 2007.
- [182]Kabgani, M., **Yazdanpanah, M.J.**, and Keighobadi, J., “Design of an inertial navigation systems for vehicles”, in the proceedings of 15th Annual-International Conference on Mechanical Engineering, ISME2007, Amirkabir University of Technology, Tehran, Iran, 15-17 May 2007.
- [183]Keighobadi, J., Menhaj, M. B., Kabgani, M. and **Yazdanpanah, M.J.**, “Nonlinear control of mobile robots via fuzzy technique”, In the proceedings of The 14th Annual (International) Conference of Mechanical Engineering, ISME2006, Isfahan University of Technology, Isfahan, Iran, May 16-18, 2006.
- [184]Kabgani, M., **Yazdanpanah, M.J.**, and Keighobadi, J., “Implementation of inertial navigation toolbox in Simulink environment with real time processing ability”, In the proceedings of The 14th Annual (International) Conference of Mechanical Engineering, ISME2006, Isfahan University of Technology, Isfahan, Iran, May 16-18, 2006.
- [185]Yaghoubi V., M.; **Yazdanpanah, M.J.**, and Yazdani, N., “Parameter adjustment of a PI neural controller for regulation of the queue length in computer networks”, In the proceedings of the 10th Annual CSI Computer Conference (CSICC’2005), Iran Telecommunication Research Center, Tehran, Iran, Feb. 15-17, 2005.

- [186]Adhami Mirhoseini, A., and **Yazdanpanah, M.J.** “Nested Continuous Sliding Mode Control for Matched and Unmatched Uncertainty Rejection in Nonlinear Systems”, In the Proceedings of the 13th Iranian Conference on Electrical Eng. (ICEE 05), 10-12 May 2005, University of Zanjan, Zanjan, Iran.
- [187]Esna Ashari, A., Khaki Sedigh, A., and **Yazdanpanah, M.J.**, “A New Strategy for reconfigurable control system design using eigenstructure assignment” (In Farsi), In the Proceedings of the 13th Iranian Conference on Electrical Eng. (ICEE 05), 10-12 May 2005, University of Zanjan, Zanjan, Iran.
- [188]Hadian, J., and **Yazdanpanah, M.J.**, “Performance Preserving Frequency-Weighted Controller Reduction with Exact Solution for Low-Order Weights”, In the Proceedings of the 12th Iranian Conference on Electrical Eng. (ICEE 04), May 2004, Ferdowsi University of Mashhad, Mashhad, Iran.
- [189]Esna Ashari, A., and **Yazdanpanah, M.J.**, “Robust Optimal Control Using Sliding-Mode Design: Unit Vector Approach”, In the Proceedings of the 12th Iranian Conference on Electrical Eng. (ICEE 04), May 2004, Ferdowsi University of Mashhad, Mashhad, Iran.
- [190]Tabesh, M., Gousheh, S., and **Yazdanpanah, M.J.**, “Forecasting Daily Urban Water Demand Using Nueral Networks”, In the Proceedings of the First National Congress on Civil Engineering, May 2004, Sharif University of Technology, Tehran, Iran.
- [191]**Yazdanpanah, M.J.**, Lucas, A. and Jalali, A., “A New Technique For Nuerofuzzy Clustering using HSOM (Harmonic Self-Organizing Map) ”, In the proceedings of The 4th Seminar on Fuzzy Sets and its Applications, University of Mazandaran, May 28-29, 2003, Babolsar, Iran.
- [192]Abdi, J., **Yazdanpanah, M.J.**, and Hadian, M. “Semi-global disturbance attenuation for nonlinear systems”, In the Proceedings of the 11th Iranian Conference on Electrical Eng. (ICEE 03), May 2003, Shiraz University, Shiraz, Iran.
- [193]Karimi, H. R., and **Yazdanpanah, M.J.** “Multi-objective  $H_{\infty}$  control of singular systems”, In the Proceedings of the 11th Iranian Conference on Electrical Eng. (ICEE 03), May 2003, Shiraz University, Shiraz, Iran.
- [194]Farahmand, M., **Yazdanpanah, M.J.**, and Kazemi, R. “Design of Mixed  $H_2/H_{\infty}$  Controller to a Half-Car Automative Active Suspension System”, In the Proceedings of the 11th Iranian Conference on Electrical Eng. (ICEE 03), May 2003, Shiraz University, Shiraz, Iran.
- [195]**Yazdanpanah, M.J.**, Abdollahi, R., Orafa, S., Eslami, A. and Moaber, K., “Simulation of Intelligent Conveyors”, In the proceedings of The 11th Annual Conference (International) of Mechanical Engineering, Ferdowsi University of Mashhad, May 13-15, 2003, Mashhad, Iran.
- [196]Hatami, S., **Yazdanpanah, M.J.**, Fatemi, O. and Frouzandeh, B. “Shifted Frequency Sensitive Hierarchical SOM(SFS-HSOM), A Modified VQ with Neural Network”, In the proceedings of The Second Iranian Conference on Machine Vision, Image Processing & Applications, K. N. Toosi University of Technology, February 13-15, 2003, Tehran, Iran.
- [197]**Yazdanpanah, M.J.** and Mohammadpour, J., “Mixed  $H_2/H_{\infty}$  Estimation: Linear Filter Design Procedure And A Numerical Solution”, In the Proceedings of the 10th Iranian Conference on Electrical Eng. (ICEE 02), May 2002, University of Tabriz, Tabriz, Iran.

- [198]**Yazdanpanah, M.J.** and Moradi Amani, A., “Performance Improvement of A Robust Controller In Active Suspension Systems” (In Farsi), In the Proceedings of the 10th Iranian Conference on Electrical Eng. (ICEE 02), May 2002, University of Tabriz, Tabriz, Iran.
- [199]**Yazdanpanah, M.J.** and Hadian, J., “A New Model Reduction Approach For Robust Regulation Of The Pitch Angel Of An Airplane” (In Farsi), In the Proceedings of the 10th Iranian Conference on Electrical Eng. (ICEE 02), May 2002, University of Tabriz, Tabriz, Iran.
- [200]Karimi, H. R. and **Yazdanpanah, M.J.**, “Robust Control of Uncertain Delayed Singularly Perturbed Systems”, (In Farsi), In the Proceedings of the 10th Iranian Conference on Electrical Eng. (ICEE 02), May 2002, University of Tabriz, Tabriz, Iran.
- [201]Kalhor, A. and **Yazdanpanah, M.J.**, “A New Method for Determination of the Basin in Nonlinear Autonomous Systems”, (In Farsi), In the Proceedings of the 10th Iranian Conference on Electrical Eng. (ICEE 02), May 2002, University of Tabriz, Tabriz, Iran.
- [202]Semsar, E. and **Yazdanpanah, M.J.**, “Performance Improvement of Sliding Mode Controllers using Energy Reduction of Control Signal”, (In Farsi), In the Proceedings of the 10th Iranian Conference on Electrical Eng. (ICEE 02), May 2002, University of Tabriz, Tabriz, Iran.
- [203]Fakharian, A., **Yazdanpanah, M.J.** and Kazemi, R. “Active Suspension Design using Nonlinear Optimal Control”, (In Farsi), In the Proceedings of the 10th Iranian Conference on Electrical Eng. (ICEE 02), May 2002, University of Tabriz, Tabriz, Iran.
- [204]Farahmand, M., Lucas, C. and **Yazdanpanah, M.J.**, “Application Of Fuzzy Logic Control To An Automotive Active Suspension System”, In the Proceedings of the 10th Iranian Conference on Electrical Eng. (ICEE 02), May 2002, University of Tabriz, Tabriz, Iran.
- [205]Madanian, E. and **Yazdanpanah, M.J.**, “Channel Assignment in Cellular Communications Using a New Modification on Hopfield Neural Networks”, In the proceedings of The 9th Iranian Conference on Electrical Eng. (ICEE 01), May 2001, Tehran, Iran.
- [206]Omidi, M.R. and **Yazdanpanah, M.J.**, “Minimization of Control Signal Oscillations in HVAC systems Using Reinforcement Learning” (In Farsi), in the proceedings of The 9th Iranian Conference on Electrical Eng. (ICEE 01), May 2001, Tehran, Iran.
- [207]Ghaemi, R., **Yazdanpanah, M.J.** and Nili, M., “Impedance Control of Redundant Manipulators Using Sliding Mode Control” (In Farsi), in the proceedings of The 9th Iranian Conference on Electrical Eng. (ICEE 01), May 2001, Tehran, Iran.
- [208]Afsahi, A., **Yazdanpanah, M.J.** and Zarifi, K., “Improvement of LS and Suboptimal Methods in Solving HJI Equation of Nonlinear  $H_\infty$  Control” (In Farsi), in the proceedings of The 9th Iranian Conference on Electrical Eng. (ICEE 01), May 2001, Tehran, Iran.
- [209]Fakharian, A., Farshad, M. and **Yazdanpanah, M.J.**, “Robust Identification of Nonlinear Systems Using Neural Networks” (In Farsi), in the proceedings of The 9th Iranian Conference on Electrical Eng. (ICEE 01), May 2001, Tehran, Iran

- [210] Afkhami, S., Jabedar Maralani, P. and **Yazdanpanah, M.J.**, “New Result on Input-to-State Stability”, in the proceedings of The 9th Iranian Conference on Electrical Eng. (ICEE 01), May 2001, Tehran, Iran.
- [211] Karimi, H.R. and **Yazdanpanah, M.J.**, “Robust Stability Analysis of Singularly Perturbed Systems Using Structured Singular Values”, in the proceedings of The 9th Iranian Conference on Electrical Eng. (ICEE 01), May 2001, Tehran, Iran.
- [212] Karimi, H.R. and **Yazdanpanah, M.J.**, “Robust Stability and Disturbance Attenuation for a Class of Uncertain Singularly Perturbed Systems”, in the proceedings of The 9th Iranian Conference on Electrical Eng. (ICEE 01), May 2001, Tehran, Iran.
- [213] Tavassoli, B. and **Yazdanpanah, M.J.**, “Nonlinear Flight Control of Helicopters” (In Farsi), The First Scientific & Applied Conference of Aerospace Organization, 29 Aug.-1 Sep. 2000, Tehran, Iran.
- [214] **Yazdanpanah, M.J.** and Omidi, M.R., “Smoothing Control Signal in HVAC Systems Using Optimal Control Technique” (In Farsi), in the proceedings of The 8th Iranian Conference on Electrical Eng., May 2000, Isfahan, Iran.
- [215] **Yazdanpanah, M.J.** and Karimi, H., “Design of  $H_\infty$  Controller for Robust Regulation of Singularly Perturbed Systems”, in the proceedings of The 8th Iranian Conference on Electrical Eng., May 2000, Isfahan, Iran.
- [216] **Yazdanpanah, M.J.** and Tavanaee, M., “Minimization of Control Signal Oscillations in Delayed Systems using  $H_\infty$  techniques” (In Farsi), in the proceedings of The 8th Iranian Conference on Electrical Eng., May 2000, Isfahan, Iran.
- [217] Barikbin, K. and **Yazdanpanah, M.J.**, “Control of Non-minimum Phase Systems using Sliding Mode Technique” (In Farsi), in the proceedings of The 8th Iranian Conference on Electrical Eng., May 2000, Isfahan, Iran.
- [218] Maddah-Ali, M.A., Khaki-Seddigh, A. and **Yazdanpanah, M.J.**, “Prediction through Interacting Multiple Model” (In Farsi), In the proceedings of The 8th Iranian Conference on Electrical Eng., May 2000, Isfahan, Iran.

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***Technical Reports***

- [219] **Yazdanpanah, M.J.**, “Toward Minimization of Actuator Repositioning”, Technical Report, Dept. of ECE, Concordia University, December 1997.
- [220] **Yazdanpanah, M.J.**, Zaheerudin, M. and Patel, R. V. “Feasibility Study of Adaptive Control Algorithms”, Technical Report Submitted to Landis & Staefa (Buffalo Grove, IL, USA), Dept. of ECE, Concordia University, September 1997.
- [221] **Yazdanpanah, M.J.**, “Utilizing MAPLE and MATLAB for Modeling Flexible-Link Manipulators and Designing Nonlinear  $H_\infty$  Controllers”, Technical Report, Dept. of ECE, Concordia University, 1995.