

Biography

Hamidreza Momeni was born in Khomein, Iran in 1954. He received his B. Sc., M. Sc. And Ph. D. degrees in electrical engineering from Sharif university of technology, in 1977, university of Wisconsin at Madison, USA, in 1979 and Imperial college of London, England , in 1987, respectively. His research interests included Adaptive control, robust control, Teleoperation systems, Industrial control, Instrumentation, Automation and Navigation & Guidance. He is associate professor and Dean of Faculty of Electrical and Computer Engineering , university of Tarbiat Modarres, Tehran, Iran.

RESUME

1- Personal Information

Date of Birth : 1954
Place of Birth : Khomein/IRAN
Nationality : Iranian
Status : Married
(With three children)
Competence in Languages : Persian, English
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2- Education

- 1-BSc, Electrical Eng., Sharif University of Technology, Tehran IRAN, 1977,
- 2-MSc, Electrical Eng. (control), University of Wisconsin at Madison, USA 1979.
- 3- Ph.D., Electrical Eng. (control), Imperial College of London, UK, 1987.

Ph.D. Thesis: Adaptive Control of time-varying Systems via Vector Variable Forgetting-Factor.

4- Experience

- 1- 09/2014 – 09/2018: Dean of Faculty of Electrical and Computer Engineering at Tarbiat Modares University (TMU), Tehran, Iran.
- 2- 11/2013 – 09/2014: Head of Control Group, Faculty of Electrical and Computer Engineering, TMU, Tehran, Iran.
- 3- 03/2003 – 04/2006: Dean of Faculty of Electrical and Computer Engineering at TMU, Tehran, Iran.
- 4- 05/2001 – 01/2003: Head of Control Group, Faculty of Electrical and Computer Engineering, TMU, Tehran, Iran.
- 5- 10/1998 – 04/2001: Deputy of Teaching Affairs of Engineering Faculty, TMU, Tehran, Iran.
- 6- 07/1997 – 10/1998: Head of Engineering Library, TMU, Tehran, Iran.
- 7- 12/1991 – 10/1994: Head of Control Group, Faculty of Electrical and Computer Engineering, TMU, Tehran, Iran.
- 8- 04/1990 – 12/1991: Deputy of Teaching Affairs of Engineering Faculty, TMU, Tehran, Iran.

5- National Award

1. The 2015 IEEE Iran Section Award, Educational and Teaching Award (Prof. Jabehtar award)
2. Outstanding Professor Award TMU 2008.

6- Conference Responsibility

Chairman of Iranian Conference on Control, Instrumentation and Automation (ICCIA), 2010

Member of Steering Committees for Iranian Conference on Electrical Engineering (1992-2010).

Member of Steering Committees for Iranian Conference on Control, Instrumentation and Automation (ICCIA), 2008-2016.

7- Education and Research Interests

- 1- Adaptive Control
 - 2- Estimation and Systems Identification
 - 3- Fractional order Systems Control
 - 4- Industrial Automation
 - 5- Instrumentation
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8- Courses Taught

Undergraduate level

- 1- Linear Control Systems
- 2- Modern Control
- 3- Industrial Control
- 4- Instrumentation
- 5- Electrical Measurements
- 6- Signals and Systems

Postgraduate level

- 1- Digital Control
 - 2- Optimal Control
 - 3- Multivariable Control
 - 4- Adaptive Control
 - 5- Systems Identification
 - 6- Industrial Automation
 - 7-Advanced Instrumentation
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9- Societies

- 1- IEEE Member,
 - 2- Member of Iran Society of Instrumentation and Control Engineers.
 - 3- Member of directing board of Iran Society of Instrumentation and Control Engineers 2002-2014
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10- Research and Industrial Projects

- 1- Design a Building Automation system.
- 2- A smart Calibration System Design for Weather Radar in Ahvaz, Iran.
- 3- Design a Computer Control System for a three degrees of freedom Educational Robot.

- 4- Design and Manufacture of Monitoring System and information management for Induction Furnace in Tabriz Forging Company.
- 5- Design of Electronic Security Systems Installations in National Iranian Oil Company.

11- Thesis Supervision

11.1- PhD Level:

a- Finished

- 1- Impulsive approach for Filtering and Control of Stochastic Systems with application in Gene Regulatory Networks (Supervisor).
- 2- Design of Controller and Fault Detector using Robust Filter for Linear Systems (Supervisor).
- 3- Designing Non-Fragile Fractional order Robust to disturbance Observer for a class of Nonlinear Fractional order Systems (Supervisor).
- 4- Application of Fractional Calculus in Control and Stabilization of the Systems with Uncertainties (Supervisor).
- Systems (Supervisor).
- 6- Modern two point Guidance Law Design in Flight Systems (Supervisor).
- 7- Estimation and Control in Open Quantum Systems (Supervisor).
- 8- Robust Controller Design and Uncertainty Set Shaping for Identified Systems (Supervisor).
- 9- Design of Adaptive Controller for Teleoperation Systems (Supervisor).
- 10- Design Multipurpose Sliding mode Observer for Large Scale Systems (Supervisor).
- 11- Design of Invers Adaptive Robust Controller for a Teleoperation System via Internet (Supervisor).
- 12- Design of Self-tuning PI Controller for a Nonlinear System using Fuzzy Gain-scheduling (Supervisor).
- 13- Design of Robust Controller for Teleoperation Systems (Supervisor). System
- 14- Direct Adaptive Control of the Cardiovascular System (Supervisor).

15- Analysis, Error Analysis and Optimization Control and a Guidance System (Supervisor).

16- An on-off Controller Design for Uncertain Systems using Variable Structure Method (Supervisor).

17- Path planning for multiple Robot with Multiple Targets (Advisor).

18- Design Intelligent Operating agent Controller for Navigating a Robot (Advisor).

b- under Supervisions

7 PhD students are currently under supervised.

11-2- MSc Level:

Supervised: 81

Advised: 37

12-Selected Journal Papers

1- A Sadeghzadeh, H **Momeni**, "Robust output feedback control for discrete-time systems with ellipsoidal uncertainty", IMA Journal of Mathematical Control and Information 33 (4), 911-932, 2016

2- M Mohammadian, HR **Momeni**, HS Karimi, I Shafikhani, M Tahmasebi, "An LPV based robust peak-to-peak state estimation for genetic regulatory networks with time varying delay" Neurocomputing 160, 261-273, 2015

3- EA Boroujeni, HR **Momeni**, "An iterative method to design optimal non-fragile $\{\varvec{H}\} _ \{\infty\}$ observer for Lipschitz nonlinear fractional-order systems", Nonlinear Dynamics 80 (4), 1801-1810, 2015

4- F Motallebzadeh, S Ozgoli, HR **Momeni**, "Multilevel adaptive control of nonlinear interconnected systems", ISA transactions 54, 83-91, 2015

5- MR Davoodi, K Khorasani, HA Talebi, HR **Momeni**, " Distributed fault detection and isolation filter design for a network of heterogeneous multiagent systems", IEEE Transactions on Control Systems Technology 22 (3), 1061-1069, 2014.

6- S Dadras, HR **Momeni**, "Fractional-Order Dynamic Output Feedback Sliding Mode Control Design for Robust Stabilization of Uncertain Fractional-Order Nonlinear Systems", Asian Journal of Control 16 (2), 489-497, 2014.

- 7- M Fattahi, N Vasegh, HR **Momeni**, "Stabilization of a class of nonlinear discrete time systems with time varying delay", *Journal of Central South University* 21 (10), 3769-3776, 2014.
- 8- MR Davoodi, A Golabi, HA Talebi, HR **Momeni**, "Simultaneous fault detection and control design for switched linear systems based on dynamic observer", *Optimal Control Applications and Methods* 34 (1), 35-52, 2013.
- 9- S Dadras, HR **Momeni**, "Passivity-based fractional-order integral sliding-mode control design for uncertain fractional-order nonlinear systems", *Mechatronics* 23 (7), 880-887, 2013.
- 10- MR Davoodi, K Khorasani, HA Talebi, HR **Momeni**, "A robust semi-decentralized fault detection strategy for multi-agent systems: An application to a network of micro-air vehicles", *International Journal of Intelligent Unmanned Systems* 1 (1), 21-35, 2013.
- 11- N Zohrabi, HR **Momeni**, AH Abolmasoumi, "Comments on "Delayed-state-feedback exponential stabilization for uncertain Markovian jump systems with mode-dependent time-varying state delays", *Nonlinear Dynamics* 73 (3), 1493-1494, 2013.
- 12- S Dadras, HR **Momeni**, "Fractional terminal sliding mode control design for a class of dynamical systems with uncertainty", *Communications in Nonlinear Science and Numerical Simulation* 17 (1), 367-377, 2012.
- 13- S Dadras, HR **Momeni**, G Qi, Z Wang, "Four-wing hyperchaotic attractor generated from a new 4D system with one equilibrium and its fractional-order form", *Nonlinear Dynamics* 67 (2), 1161-117, 2012.
- 14- EA Boroujeni, HR **Momeni**, "Non-fragile nonlinear fractional order observer design for a class of nonlinear fractional order systems", *Signal Processing* 92 (10), 2365-2370, 2012.
- 15- M Mohammadian, AH Abolmasoumi, HR **Momeni**, " H_∞ mode-independent filter design for Markovian jump genetic regulatory networks with time-varying delays", *Neurocomputing* 87, 10-18, 2012.
- 16- EA Boroujeni, HR **Momeni**, "Observer based control of a class of nonlinear fractional-order systems using LMI", *International Journal of Science and Engineering Investigations* 1 (1), 48-52, 2012.
- 17- MR Davoodi, A Golabi, HA Talebi, HR **Momeni**, "Simultaneous fault detection and control design for switched linear systems: A linear matrix inequality approach", *Journal of Dynamic Systems, Measurement, and Control* 134 (6), 061010, 2012.
- 18- MR Davoodi, HA Talebi, HR **Momeni**, "A novel simultaneous fault detection and control approach based on dynamic observer", *International Journal of Innovative Computing Information and Control* 8 (7 A ...), 2012.

- 19- H Kasiri, MS Abadeh, HR **Momeni**, "Optimal estimation and control of WECS via a genetic neuro fuzzy approach", *Energy* 40 (1), 438-444, 2012.
- 20- L Khoshnevisan, HR **Momeni**, A Ashraf-Modarres, "Introduction of a Robust Fault Detection Filter Model Based on Continuous Kalman Filter for a Real Drum Boiler System", *International Journal of Modeling and Optimization* 2 (4), 539, 2012.
- 21- S Dadras, HR **Momeni**, MP Aghababa, "Corrigendum to "Fractional terminal sliding mode control design for a class of dynamical systems with uncertainty"[Commun Nonlinear Sci Numer Simulat 17 (2012) 367–377]", *Communications in Nonlinear Science and Numerical Simulation* 17 (6), 2711, 2012.
- 22- E Amini Boroujeni, HR **Momeni**, M Sojoodi, "An LMI Approach to Resilient Fractional Order Observer Design for Lipschitz Fractional Order Nonlinear Systems Using Continuous Frequency Distribution", *The Modares Journal of Electrical Engineering* 12 (1), 1-55, 2012.
- 23- N Zohrabi, HR **Momeni**, AH Abolmasoumi, "Sliding Mode Control of Time-Delay Markovian Jump Systems with Partly Known Transition Probabilities", *Journal of Control* 6 (3), 2012.
- 24- S Ganjefar, S Najibi, HR **Momeni**, "A novel structure for the optimal control of bilateral teleoperation systems with variable time delay", *Journal of the Franklin Institute* 348 (7), 1537-1555, 2011.
- 25- A Sadeghzadeh, H **Momeni**, "Fixed-order robust H_∞ control and control-oriented uncertainty set shaping for systems with ellipsoidal parametric uncertainty", *International journal of robust and nonlinear control* 21 (6), 648-665, 2011.
- 26- AH Abolmasoumi, HR **Momeni**, "Robust observer-based H_∞ control of a Markovian jump system with different delay and system modes", *International Journal of Control, Automation and Systems* 9 (4), 768-776, 2011.
- 27- A Sadeghzadeh, H **Momeni**, A Karimi, "Fixed-order H_∞ controller design for systems with ellipsoidal parametric uncertainty", *International Journal of Control* 84 (1), 57-65, 2011.
- 28- MR Davoodi, HA Talebi, HR **Momeni**, "A novel simultaneous fault detection and control approach based on dynamic observer", *IFAC Proceedings Volumes* 44 (1), 12036-12041, 2011.
- 29- H Mahdianfar, S Ozgoli, HR **Momeni**, "Robust multiple model adaptive control: Modified using v-gap metric", *International Journal of Robust and Nonlinear Control* 21 (18), 2027-2063, 2011.
- 30- AH Abolmasoumi, HR **Momeni**, "TCP congestion control for the networks with markovian jump parameters", *Advances in Electrical and Computer Engineering* 11 (2), 67-72, 2011.

- 31- J Sharifi, H **Momeni**, "Lyapunov control of squeezed noise quantum trajectory", *Physics Letters A* 375 (3), 522-528, 2011.
- 32- EA Boroujeni, HR **Momeni**, "Comments on "The feedback control of fractional order unified chaotic system", *Chinese Physics B* 20 (9), 090508, 2011.
- 33- I Mohammadzaman, H **Momeni**, "Nonlinear Guidance Law with Finite-Time Convergence Considering Control Loop Dynamics.", *Journal of Aerospace Science & Technology* 8 (2), 2011.
- 34- I Mohammadzaman, HR **Momeni**, "PI Guidance Law Design with Finite Time Convergence", *Aerospace Mech. J* 7 (1), 69-79, 2011.
- 35- S Dadras, HR **Momeni**, "Single Backstepping Control Input of a Novel 3d Autonomous Chaotic System", *International Journal of Modern Physics B* 25 (32), 4395-4409, 2011.
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- 36- AA Modarres, H **Momeni**, "Unknown input sliding-mode observer using for a Drum-type Boiler .", *Journal of Theoretical & Applied Information Technology* 24 (1), 2011.
- 37- J Sharifi, H **Momeni**, "Quantum stochastic differential equation for squeezed light", *Optik-International Journal for Light and Electron Optics* 122 (17), 1527-1529, 2011.
- 38- V Aeinfar, A Sadeghzadeh, H **Momeni**, "Control-Oriented Input Design for Open-Loop System Identification", *IFAC Proceedings Volumes* 44 (1), 13167-13172, 2011.
- 39- M Ali Ashraf, H **Momeni**, "A new sliding mode observer design for linear system with unknown input and time-varying delay ", *Journal of Control* 4 (4), 24-31,2011.
- 40- V Aeinfar, H **Momeni**, "Robust control and uncertainty set shaping observer by system identification ", *Journal of Control* 5 (2), 60-68, 2011.
- 41- S Dadras, HR **Momeni**, " Control of a fractional-order economical system via sliding mode", *Physica A: Statistical Mechanics and its Applications* 389 (12), 2434-2442, 2010.
- 42- K Hosseini-Suny, H **Momeni**, F Janabi-Sharifi, "Model reference adaptive control design for a teleoperation system with output prediction", *Journal of Intelligent & Robotic Systems* 59 (3), 319-339, 2010.
- 43- S Dadras, HR **Momeni**, G Qi, "Analysis of a new 3D smooth autonomous system with different wing chaotic attractors and transient chaos", *Nonlinear Dynamics* 62 (1), 391-405, 2010.
- 44- S Dadras, HR **Momeni**, "Adaptive sliding mode control of chaotic dynamical systems with application to synchronization", *Mathematics and Computers in Simulation* 80 (12), 2245-2257, 2010.

- 45- S Dadras, HR **Momeni**, "Four-scroll hyperchaos and four-scroll chaos evolved from a novel 4D nonlinear smooth autonomous system", *Physics Letters A* 374 (11), 1368-1373, 2010.
- 46- K Hosseini-Suny, H **Momeni**, F Janabi-Sharifi, "A modified adaptive controller design for teleoperation systems", *Robotics and Autonomous Systems* 58 (5), 676-683, 2010.
- 47- S Dadras, HR **Momeni**, "Generating one-, two-, three-and four-scroll attractors from a novel four-dimensional smooth autonomous chaotic system", *Chinese Physics B* 19 (6), 060506, 2010.
- 48- I Mohammadzaman, H **Momeni**, "PI guidance law design using circle criterion", *Journal of Control* 4 (2), 11-19, 2010.
- 49- E Mohammadzaman, HR **Momeni**, "Short Time Stability Approach to Guidance Law Design", *Journal of space science and technology(JSST)* 3 (12), 37-44, 2010.
- 50- F Motallebzadeh, S Ozgoli, HR **Momeni**, "Multilevel Adaptive Control of Interconnected Nonlinear Systems: Application to Double Coupled Inverted Pendulums", *IFAC Proceedings Volumes* 43 (8), 418-423, 2010.
- 51- A Sadeghzadeh, H **Momeni**, "Shaping the uncertainty set resulted from system identification for robust control design", *Journal of Control* 4 (1), 12-21, 2010.
- 52- S Dadras, HR **Momeni**, "A novel three-dimensional autonomous chaotic system generating two, three and four-scroll attractors", *Physics Letters A* 373 (40), 3637-3642, 2009.
- 53- S Dadras, HR **Momeni**, VJ Majd, "Sliding mode control for uncertain new chaotic dynamical system", *Chaos, Solitons & Fractals* 41 (4), 1857-1862, 2009.
- 54- S Dadras, HR **Momeni**, "Control uncertain Genesio–Tesi chaotic system: adaptive sliding mode approach", *Chaos, Solitons & Fractals* 42 (5), 3140-3146, 2009.
- 55- M Sha Sadeghi, HR **Momeni**, "A new impedance and robust adaptive inverse control approach for a teleoperation system with varying time delay", *Science in China Series E: Technological Sciences* 52 (9), 2629-2643, 2009.
- 56- A Sadeghzadeh, H **Momeni**, "Input design admitting non-fragile robust control by convex optimization", *IFAC Proceedings Volumes* 42 (10), 952-957, 2009.
- 57- A Sadeghzadeh, H **Momeni**, "Virtual Closed Loop Identification: A New Method for Low-Order H_∞ Controller Design", *System Identification* 15 (1), 314-319, 2009.
- 58- A Sadeghzadeh, H **Momeni**, "Virtual Closed Loop Identification: A New Method for Low-Order H_∞ Controller Design", *IFAC Proceedings Volumes* 42 (10), 314-319, 2009.

59- MS Sadeghi, HR **Momeni**, R Amirifar, "h ∞ and l 1 Control of a Teleoperation System via LMIs", Applied Mathematics and Computation 206 (2), 669-677, 2008.

60- A Moussavi Khalkhali, B Moshiri, HR **Momeni**, "Designing a Home security system using sensor data fusion with DST and DSMT methods", International Journal of Engineering-Transactions A: Basics 22 (1), 13, 2008.

61- M Jafarboland, N Sadati, HR **Momeni**, "Robust Tracking Control of Satellite Attitude Using New EKF for Large Rotational Maneuvers", ESTEGHLAL 25 (1), 1-15, 2006.

62- M Jafarboland, HR **Momeni** AN, N Sadati, "Dynamic modeling for earth-pointing satellites to control the three-axis attitude without the attitude information of one axis", Esteghlal 21 (2), 1-14, 2003.

63- S Azadi, HR **Momeni**, AR Sharafat, "Utilizing a direct model reference adaptive controller for a cardiovascular system", Iranian Journal of Science and Technology 26 (B4), 673-678, 2002.

13- Selected Conference Papers

1- N Zohrabi, AH Abolmasoumi, HR **Momeni**, S Abdelwahed, "Robust integral sliding mode control for Markovian jump systems: A singular system approach", American Control Conference (ACC), 2016, 7213-7218.

2- HS Karimi, I Shafikhani, HR **Momeni**, A Ramezani, "Robust extended Kalman filter for positioning control of ships in presence of parameter uncertainties", Control, Instrumentation, and Automation (ICCIA), 2016 4th International Conference.

3- S Rajabi, M Samanazari, HR **Momeni**, A Ramezani, "Automated fault diagnosis of rolling element bearings based on morphological operators and M-ANFIS", Electrical Engineering (ICEE), 2016 24th Iranian Conference on, 1757-1762, 2016.

4- EA Boroujeni, M Pourgholi, HR **Momeni**, "Reduced order linear fractional order observer", Control Communication and , Computing (ICCC), 2013 International Conference on ..., 2013.

5- N Zohrabi, HR **Momeni**, AH Abolmasoumi, "Sliding mode control of Markovian jump systems with partly unknown transition Probabilities", IFAC Proceedings Volumes 46 (2), 947-952, 2013.

6- EA Boroujeni, HR **Momeni**, "Lyapunov based design of a nonlinear resilient fractional order observer", Proceedings of the 21st Iranian Conference on Electrical Engineering ..., 2013.

- 4- MR Davoodi, K Khorasani, HA Talebi, HR **Momeni**, "A novel distributed robust fault detection and isolation filter design for a network of nonhomogeneous multi-agent systems", Decision and Control (CDC), 2012 IEEE 51st Annual Conference on, 592-599, 2012.
- 5- A Ashraf-Modarres, H **Momeni**, A Yazdizadeh, "A new decentralized sliding mode observer design for interconnected power systems with unknown and time-varying delay", Thermal Power Plants (CTPP), 2012 4th Conference on, 1-6, 2012.
- 6- N Zohrabi, HR **Momeni**, H Zakeri, "Markov jump modelling and control of stress effects on the blood glucose regulation system, " Electrical Engineering (ICEE), 2012 20th Iranian Conference on, 985-989, 2012.
- 7- EA Boroujeni, MJ Yazdanpanah, HR **Momeni**, "Controller design for fractional order chaotic Lu system", American Control Conference (ACC), 2012, 997-1002.
- 8- L Fatemi, H **Momeni**, G Alizadeh, M Baradaran-nia, "Adaptive sliding mode control of a single degree-of-freedom structure with parameter uncertainty", Intelligent Systems, Modelling and Simulation (ISMS), 2012 Third ..., 2012.
- 9- AE Jajarm, S Ozgoli, HR **Momeni**, "Blood glucose regulation using fuzzy recursive fast terminal sliding mode control", Intelligent and Advanced Systems (ICIAS), 2012 4th International Conference ..., 2012.
- 10- S Dadras, HR **Momeni**, "Fractional sliding mode observer design for a class of uncertain fractional order nonlinear systems", Decision and control and european control conference (CDC-ECC), 2011 50th ..., 2011.
- 11- S Dadras, HR **Momeni**, "A new fractional order observer design for fractional order nonlinear systems", ASME 2011 International Design Engineering Technical Conferences and ..., 2011.
- 12- H Kasiri, MS Abadeh, H **Momeni**, AR Motavalian, "Fuzzy rule extraction from a trained artificial neural network using genetic algorithm for WECS control and parameter estimation, " Fuzzy Systems and Knowledge Discovery (FSKD), 2011 Eighth International ..., 2011.
- 13- NE Sadr, HR **Momeni**, : Fuzzy Sliding mode Control for missile autopilot design", GCC Conference and Exhibition (GCC), 2011 IEEE, 453-456, 2011.
- 14- L Khoshnevisan, HR **Momeni**, A Ashraf-Modarres, " H_{∞} robust fault detection filter in drum boiler systems", GCC Conference and Exhibition (GCC), 2011 IEEE, 577-580, 2011.
- 15- L Khoshnevisan, HR **Momeni**, A Ashraf-Modarres, "Implementation of an Innovative Simplified Sliding Mode Observer-Based Robust Fault Detection in a Drum Boiler System", Proc. 2011 WASET Conference, Dubai, UAE, 340-344, 2011.

16- H Kasiri, HR **Momeni**, M Azimi, AR Motavalian, "A New hybrid optimal control for WECS using MLP neural network and genetic neuro fuzzy", Control, Instrumentation and Automation (ICCIA), 2011 2nd International ..., 2011.

17- M Fattahi, H **Momeni**, "Novel stabilization and robust stabilization conditions for linear discrete time-delayed systems", Control, Instrumentation and Automation (ICCIA), 2011 2nd International ..., 2011.

18- AH Abolmasoumi, M Azadegan, HR **Momeni**, "Congestion control for the communication networks with random parameter jumps", Control and Decision Conference (CCDC), 2011 Chinese, 3692-3696, 2011.

19- M Mohamadian, HR **Momeni**, "Stochastic asymptotic boundedness of genetic regulatory networks", Control and Communications (SIBCON), 2011 International Siberian Conference ..., 2011.

20- M Mohamadian, AH Abolmasoumi, HR **Momeni**, "Disturbance attenuation analysis for Markovian jump genetic regulatory networks with mode dependent delays", Control and Decision Conference (CCDC), 2011 Chinese, 3131-3136, 2011.

21- A Abolmasoumi, SS Delshad, HR **Momeni**, " H_∞ analysis for a class of Markov jump nonlinear systems", GCC Conference and Exhibition (GCC), 2011 IEEE, 561-564, 2011.

22- M Fattahi, H **Momeni**, "Novel global exponential stability condition for discrete-time recurrent neural networks with random time-varying delays", Biomedical Engineering (ICBME), 2010 17th Iranian Conference of, 1-4, 2010.

23- J Sharifi, H **Momeni**, "Optimal control equation for quantum stochastic differential equations", Decision and Control (CDC), 2010 49th IEEE Conference on, 4839-4844, 2010.

24- FE Sarabi, HR **Momeni**, "Less conservative delay-dependent robust stability criteria for linear time-delay systems", Electrical Engineering/Electronics Computer Telecommunications and ..., 2010.

25- FE Sarabi, H Khatibi, HR **Momeni**, "Robust stability analysis and synthesis of linear time-delay systems via LMIs", Decision and Control (CDC), 2010 49th IEEE Conference on, 615-620, 2010.

26- S Dadras, F Motallebzadeh, F Motallebzadeh, S Ozgoli, HR **Momeni**, "Control of chaotic uncertain brushless DC motors", Control and Automation, 2009. ICCA 2009. IEEE International Conference on ..., 2009.

27- A Daryabor, AH Abolmasoumi, H **Momeni**, "Robust pole placement control of flexible manipulator arm via LMIs", System Theory, 2009. SSST 2009. 41st Southeastern Symposium on, 274-279, 2009.

- 28- AH Abolmaasoumi, HR **Momeni**, A Daryabor, "Robust μ -synthesis control of a flexible manipulator arm", System Theory, 2009. SSST 2009. 41st Southeastern Symposium on, 330-334, 2009.
- 29- S Dadras, HR **Momeni**, S Dadras, "Adaptive control for ship roll motion with fully unknown parameters", Control and Automation, 2009. ICCA 2009. IEEE International Conference on ..., 2009.
- 30- S Dadras, EA Boroujeni, HR **Momeni**, "An adaptive controller for a class of nonlinear systems An application to ship roll motion", System Theory, 2009. SSST 2009. 41st Southeastern Symposium on, 213-216, 2009.
- 31- EA Boroujeni, S Dadras, HR **Momeni**, "A nonlinear controller for marine vehicle Control roll motion of ship", System Theory, 2009. SSST 2009. 41st Southeastern Symposium on, 209-212, 2009.
- 32- M Heidarieh, HR **Momeni**, "Using rational Lyapunov function for estimating the domain of attraction of a nonlinear economic model: An LMI approach", System Theory, 2009. SSST 2009. 41st Southeastern Symposium on, 217-222, 2009.
- 33- M Jafarboland, N Sadati, H **Momeni**, "Robust Tracking Control of Attitude Satellite with Using New EKF for Large Rotational Maneuvers", AIAA Guidance, Navigation, and Control Conference and Exhibit, 5785, 2008.
- 34- A Daryabor, HR **Momeni**, "A sliding mode observer approach to chaos synchronization", Control, Automation and Systems, 2008. ICCAS 2008. International Conference ..., 2008.
- 35- S Dadras, HR **Momeni**, VJ Majd, "Fuzzy surface-based control for uncertain unified chaotic systems", Control, Automation and Systems, 2008. ICCAS 2008. International Conference ..., 2008.
- 36- S Dadras, HR **Momeni**, VJ Majd, "Control of uncertain butterfly-shaped chaotic system: Sliding-mode approach", Control, Automation and Systems, 2008. ICCAS 2008. International Conference ..., 2008.
- 37- EA Boroujeni, A Daryabor, HR **Momeni**, "Designing robust pole placement control for Roll Motions Of Ships via LMIs", Control, Automation and Systems, 2008. ICCAS 2008. International Conference ..., 2008.
- 38- EA Boroujeni, HR **Momeni**, "Adaptive sliding mode control for roll motions of ships", Control, Automation and Systems, 2008. ICCAS 2008. International Conference ..., 2008.
- 39- B Moshiri, AM Khalkhali, HR **Momeni**, "Designing a home security system using sensor data fusion with DST and DSMT methods", Information Fusion, 2007 10th International Conference on, 1-6, 2007.

- 40- R Rashed, H **Momeni**, "System modeling of MEMS Gyroscopes", Control & Automation, 2007. MED'07. Mediterranean Conference on, 1-6, 2007.
- 41- MS Sadeghi, HR **Momeni**, R Amirifar, S Ganjefar, "Robust adaptive inverse controller design for position tracking in teleoperation systems", Control Applications, 2007. CCA 2007. IEEE International Conference on, 563-568, 2007.
- 42- MS Sadeghi, HR **Momeni**, R Amirifar, S Ganjefar, "Robust H8 Controller Design for a Bilateral Teleoperation System via LMIs", Innovative Computing, Information and Control, 2007. ICICIC'07. Second ..., 2007.
- 43- M Jafarboland, H **Momeni**, "Disturbance and parameter estimation algorithms for attitude control model of the satellite maneuvers", Aerospace Conference, 2006 IEEE, 6 pp., 2006.
- 44- MS Sadeghi, HR **Momeni**, R Amirifar, S Ganjefar, "A new adaptive inverse control scheme for teleoperation system with varying time delay", Computer Aided Control System Design, 2006 IEEE International Conference on ..., 2006.
- 45- M Jafarboland, N Sadati, H **Momeni**, "Robust tracking control of attitude satellite with using new SMC and EKF for large maneuvers", Aerospace Conference, 2006 IEEE, 10 pp., 2006.
- 46- K Hosseini-Sunny, H **Momeni**, F Janabi-Sharifi, "Adaptive teleoperation systems design", Control Applications, 2005. CCA 2005. Proceedings of 2005 IEEE Conference on ..., 2005.
- 47- E Kamrani, HR **Momeni**, AR Sharafat, "Modeling Internet delay dynamics for teleoperation", Control Applications, 2005. CCA 2005. Proceedings of 2005 IEEE Conference on ..., 2005.
- 48- E Kamrani, HR **Momeni**, AR Sharafat, "Novel adaptive control system for stable teleoperation via internet", Control Applications, 2005. CCA 2005. Proceedings of 2005 IEEE Conference on ..., 2005.
- 49- E Kamrani, HR **Momeni**, AR Sharafat, "A multi-model adaptive control system for teleoperation via Internet", Control Applications, 2004. Proceedings of the 2004 IEEE International ..., 2004.
- 48- S Ganjefar, H **Momeni**, F Janabi-Sharifi, MTH Beheshti, "Prediction of delay time for teleoperation systems in augmented wave variables and Smith predictor", Proc. 11th International Conf. Advanced Robotics, ICAR, 520-524, 2003.
- 49- M Jafarboland, N Sadati, H **Momeni**, "Robust Tracking Control of Attitude Satellite with Using New EKF for Large Rotational Maneuvers", AIAA Guidance, Navigation, and Control Conference and Exhibit, 5785, 2003.

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