



PARVIZ JABEH DAR- MARALANI

School of Electrical and Computer Engineering,
University of Tehran

Email: pjabedar@ut.ac.ir

EDUCATION:

- 1966-1969 Ph.D. in Electrical and Computer Engineering from University of California, Berkeley, USA
- 1965-1966 MS. in Electrical and Computer Engineering from University of California, Berkeley, USA
- 1959-1963 Combined BS. and MS. in Electrical Engineering from University of Tehran

ADMINISTRATIVE POSITIONS:

- 2005 - 2009 Dean of the School of Electrical and Computer Engineering, University of Tehran
- 2002-2005 Chairman of the Department of Electrical and Computer Engineering, University of Tehran
- 2002- 2009 Head of the Electro-technique Institute, University of Tehran
- 2006-2008 Head of the Engineering Group of the Academy of Science of Iran
- 1975-1979 Director of the Center of Informatics of the University of Tehran
- 1972-1975 Director of the Office of Statistics and Reports of the University of Tehran
- 1979-1980 Chairman of Department of Electrical Engineering, University of Tehran

- 1990-2011 Head of the Electrical Engineering Educational Planning Committee of the Ministry of Science of Iran
- 1984-2011 Head of the Electrical and Computer Engineering group in the Iranian Organization for Educational Evaluation and National Examinations
- 1986-2012 Member of Publication Council of the University of Tehran
- 2008-2015 President of Iranian Society of Engineering Education
- 2011-2016 President of Iran Accreditation Institute for Engineering Education
- 2001-2013 Vice president of Iranian Association of Electrical and Electronic Engineers and Head of a committee for Professional Engineering Exam in Electrical Engineering (PE)
- 2007-2016 Head of the High Council of Alumni Association of the Faculty of Engineering University of Tehran
- 1988 Initiator of Ph.D. Program in the Electrical and Computer Engineering at the University of Tehran (1988)

FACULTY MEMBER POSITIONS:

- 1970-1974 Assistant Professor of Electrical Engineering, University of Tehran
- 1974-1985 Associate Professor of Electrical Engineering, University of Tehran
- 1985-2011 Full professor of Electrical Engineering, University of Tehran
- 2001-2002 Visiting Professor at Department of Electrical and Computer Engineering of the University of Waterloo, Canada

AWARDS AND MAJOR ACHIEVEMENTS:

1. Ranked first in nationwide mathematics Olympiad in IRAN in 1958.
2. Ranked first in the entrance examination of the Faculty of Engineering in 1959.
3. First Rank Graduate of the Faculty of Engineering, University of Tehran in 1963 and the winner of the award of Ph.D. Scholarship in US for 5 years
4. Distinguished professor of the University of Tehran for the Excellence of Teaching, Research and Administration work in 1992.
5. Distinguished professor of the Faculty of Engineering for the Excellence of Teaching and Research in 1994.
6. Award of the outstanding alumni of the University of Tehran in its 70th anniversary, December 2004.
7. Elected as an “EVER LASTING PEOPLE” in Electrical Engineering in Iran in October 2002, by the Academy of Science of Iran.
8. Distinguished Achievement Award of the 6th World Automation Congress in recognition of outstanding contributions to Control Systems, Motivational Mentorship of Young Engineers and Scientists and Publication of Important Textbooks, Signed by Professor L.A. Zadeh, June 9, 2004, Seville Spain.
9. Winner of the golden certificate and the Award of the Iranian Association of Electrical and Electronic Engineers (IAEEE) for a distinct and continued work of excellent teaching and research, May 2003.
10. Winner of the award of the best published textbook in Iran in 2001 for the best translation of the book:” Signals and Systems”.
11. Winner of the award of the best published Textbook in the Country in 1990 for the best translation of the book: “Computer Methods for Circuit Analysis and Design”.
12. Winner of the award for publishing the best Textbook in the University of Tehran Press during the decade 1979-1989, i.e. Signals and Systems.
13. Winner of the award of the best published Textbook in the Country in 1987 for the best Translation of the book: “Modern Control Engineering”.
14. Member of the founding team of “Iranian Universities Scientific Olympiad” and responsible for Examinations in the Electrical Engineering Olympiad (1994)

15. Member of founding team for “Science and Defence Technology University” (Malek-Ashtar) in Shahinshahr, Iran, and responsible for planning and Development of the Department of Electrical Engineering at this university (1981)
16. Member of founding team for “ Marine Science University” in Nowshahr, Iran, and responsible for planning and development of the Department of Electrical Engineering at this university (1979)
17. Appointed as an associate member of the Academy of Science of Iran in 1994
18. Promoted to a” Fellow Position” of the Academy of Science of Iran in 2006.
19. Winner of the “Allameh Tabatabaiee” prize for the excellent scientific and research activities and achievements in 2014.
20. Selected as a distinguished professor of Electrical and Computer Engineering of the College of Engineering, University of Tehran on the 80th year of establishment of the College of Engineering in 2014.
21. Selected as a distinguished national retired professor by the Minister of Labour and Social Welfare in 2013.

RESEARCH ACTIVITIES AND INTERESTS:

- Circuit Analysis and Design (Linear, Non-linear)
- Computer Aided Analysis of Circuits and Systems
- Control Systems Analysis and Design (Linear, Non-linear)
- Discrete Time Control Systems
- Modelling and Simulation
- Network Planning
- Curriculum development and Educational planning in Electrical and Computer Engineering

COURSES TAUGHT (Graduate and Undergraduate):

- Electric Circuits I & II
- Signals and Systems
- Linear Control Systems
- Digital Control Systems
- Non-Linear Control Systems
- Introduction to Computers and Programming
- Fortran Programming
- Numerical Analysis
- Engineering Mathematics
- Probability theory and its application in Engineering
- Introduction to Operations Research

BOOKS PUBLISHED: (in Persian)

1. Translation of the “Basic Circuit Theory”, by Desoer and Kuh, Published by Tehran University Publication Institute, 1973
2. Basic Circuit Theory (totally revised) Published by Tehran University Publication Institute, 1999
3. Translation of “Circuit Synthesis and Design”, by G.C. Temes and J.W. Lapatra, Published by the University Publication Center, 1985
4. Electric Circuits, Classified Multiple Choice Questions, Published by Nasir Publisher, 2012
5. Translation of “Computer Methods for Circuit Analysis and Design” by J. Vlach, Published by Tehran University Publication Institute, 1990.
6. Translation of “Modern Control Systems” by RC Dorf, Published by the University Publication Center, 1987.
7. Translation of “Modern Control Engineering” by K. Ogata, Published by Javedan Kherad Publisher, 2011.
8. Translation of “Discrete Time Control Systems” by K. Ogata, Published by Tehran University Publication Institute, 1994
9. Translation of “Signals and Systems” by Zimmer, Published by Tehran University Publication Institute, 1987
10. Translation of” Signals and Systems” by Oppenheim, Published by Tehran University Publication Institute, 1999.
11. Translation of” Field and Wave Electromagnetics” by D. Cheng, Published by Tehran University Publication Institute, 1992.
12. Fortran Programming, Published by Marefat Center, 1974
13. Fortran 77 Programming, Published by Saffar Publisher , 1995

14. Probability Theory and its application in Engineering, Published by University Publication Institute, 1976
15. Translation of “Computer Methods and Numerical Analysis”, by R.H. Pennington, Published by Tehran University Publication Institute, 1981
16. Complete solutions of Multiple Choice Questions in National Graduate Entrance Examinations in Electrical Engineering from 1988-2016, in 4 volumes, Published by Tehran University Publication Institute.

PUBLISHED JOURNALS (E = English P = Persian)

1. S. Aghli Moghadam, S. Mohammadi, P. Jabehdar-Maralani, **”Demystifying SWCNT-bundle interconnects inductive behavior through novel modeling”**, Journal of Computational Electronics, Vol. 12(1), pp1-13, 2013, Springer, (E)
2. S. Aghli Moghadam, S. Mohammadi, P. Jabehdar-Maralani, **”Modified bundled data as a new protocol for NoC asynchronous links”**, Microelectronics Journal, Vol. 42 No. 5 pp.638-647, 2011, (E)
3. T. Abbasian Najafabadi, F. R. Salmasi, P. Jabehdar-Maralani, **”Detection and Isolation of Speed-DC-Link Voltage- and Current Sensor Faults Based on an Adaptive Observer in Induction-Motor Drives”**, IEEE transactions on Industrial Electronics, Vol. 58, No. 58, pp 1662-1672, 2011, (E)
4. F.R. Salmasi, T. Abbasian, P. Jabehdar-Maralani, **”An adaptive flux observer with online estimation of DC-Link voltage and rotor resistance for VSI-based induction motors”**, IEEE Transaction on Power Electronics Vol. 25(5), pp 1310,1319, 2010, (E)
5. B.Tavassoli, P. Jabehdar-Maralani, N. Rezaee, **” Controller Design over Communication Networks with a Fast Retransmission Strategy Based on Exact Analysis”**, International Journal of Control, Automation, and Systems, Vol.8(4), pp 882-890, 2010, (E)
6. M. Emadi Andani, F. Bahrami, P. Jabehdar-Maralani, A.J. Ijspeert, **”MODEM: a multi-agent hierarchical structure to model human motor control system”**, Biological Cybernetics, Vol. 101, No. 5-6, pp 361-377, 2009, (E)

7. M. Emadi Andani, F. Bahrami, P. Jabejdar-Maralani, "**AMA-MOSAICI: An automatic module assigning hierarchical structure to control human motion based on movement decomposition**", Elsevier, June 2009. (E)
8. B. Tavassoli, P. Jabejdar-Maralani, N. Rezaee, "**Tuning of Control Systems Over CSMA Networks**", IEEE Transactions on Industrial Electronics, Vol. 56, No. 4, pp 1282-1291, April 2009. (E)
9. A. Mousavi, P. Jabejdar-Maralani, "**Rough Set Approach to Data Analysis: The Case of Multiple Information Sources**", International Journal of Computer, Mathematical Sciences and Applications, Vol. 1, Number 2, June 2008, 437-449. (E)
10. P. Jabejdar-Maralani, B. Najar Arabi, "**Revision of Electrical Engineering Education in Iran**" Journal of Engineering Education of the Academy of Science of Iran, Vol.38, pp 29-40,2009, (P)
11. B. Tavassoli, P. Jabejdar-Maralani, "**A Study of the Scientific and Research System in Iran**" Journal of Engineering Education of the Academy of Science of Iran, Vol.38, pp 73-88, 2009, (P)
12. A. Karami, H.R. Karimi, B. Moshiri, P. Jabejdar-Maralani, "**Intelligent Optimal Control of Robotic Manipulators Using Wavelets**", International Journal of Wavelets, Multiresolution and Information Processing, April 8, 2008. (E)
13. A. Karami, H.R. Karimi, B. Moshiri, P. Jabejdar-Maralani, "**Investigation of Interpolating Wavelets Theory for the Resolution of PDEs**", International Journal of Contemp. Math. Sci., Vol. 3, Number 21, 2008, 1017-1029. (E)
814. Y. Koolivand, O. Shoaee, A. Fotovat Ahmadi, A. Zahabi, P. Jabejdar-Maralani, "**Design of robust sub-optimal nonlinear H controllers with some application**", Elsevier, Number 2, December 2007, 1053-1067. (E)
15. A. Karami, H.R. Karimi, B. Moshiri, P. Jabejdar-Maralani, "**Wavelet-Based Adaptive Collocation Method for the Resolution of Nonlinear PDEs**", International Journal of Wavelets, Multiresolution and Information Processing, Vol. 5, Number 6, November 2007, 957-973. (E)
16. J. Askari, J. Lunze, P. Jabejdar-Maralani, "**On Qualitative Behavior Of A Closed-Loop Quantized System**", Asian Journal of Control, Vol. 9, No. 3, September 2007, pp. 257-267. (E)
17. M. Jalili, B. Moshiri, P. Jabejdar-Maralani, "**Design of robust sub-optimal nonlinear H^∞ controllers with some applications**", Communications in Nonlinear Science and Numerical Simulation 12, 2007, 1053-1067. (E)

18. H.R. Karimi, P. Jabehdar-Maralani, B. Moshiri, "**Stochastic dynamic output feedback stabilization of uncertain stochastic state-delayed systems**", ISA Transactions, Vol. 45, Number 2, April 2006, 201-213. (E)
19. H.R. Karimi, B. Lohmann, B. Moshiri, P. Jabehdar-Maralani "**Wavelet-based identification and control design for a class of nonlinear systems**", International Journal of Wavelets, Multi-resolution and Information Processing, Vol.4, No.1, 2006, 213-226. (E)
20. H.R. Karimi, P. Jabehdar-Maralani, B. Lohmann, B. Moshiri " **H_{∞} control of parameter-dependent state-delayed systems using polynomial parameter-dependent quadratic functions**", International Journal of Control, Vol.78, No.4, 10 March 2005, 254-263. (E)
21. A. Zahabi, O. Shoaie, Y. Koolivand, P. Jabehdar-Maralani "**A 2/5 mW CMOS $\Delta\Sigma$ modulator employed in an improved GSM/UMTS receiver structure**", IEICE Electronics Express, Vol.2, No.8, 1-7. (E)
22. P. Jabehdar-Maralani, J. Faiz, "**Teaching Mechatronics Engineering in Canadian Universities**", Journal of Engineering Education of the Academy of Science of Iran, Vol.38, pp 23-46,2007, (P)
23. H.R. Karimi, B. Lohmann, B. Moshiri, P. Jabehdar-Maralani"**Nonlinear system identification and control design using adaptive wavelet network**", to appear in Proceeding Volume published by Elsevier (book chapter)
24. S. Afkhami, P.Jabehdar-Maralani, M. Yazdanpanah, "**Stabilization and improvement of performance by extension of universal formula in the presence of disturbance**", IEE Proc. Control Theory Application, Volume 152, No. 2, pp 229-237, March 2005, (E)
25. H.R. Karimi, B. Moshiri, B. Lohmann, P. Jabehdar-Maralani "**Harr wavelet based approach for optimal control of second order linear systems in time domain**", Journal of Dynamical and Control Systems, Vol.,11, No. 2, pp 237-252, April 2005, (E)
26. H.R. Karimi, P. Jabehdar-Maralani, B. Lohmann, B. Moshiri " **H_{∞} control of parameter-dependent state-delayed systems using polynomial parameter-dependant quadratic functions**", International Journal of Control, Vol.78, No.4, pp 254-263, March, 2005 ,(E)
27. H.R. Karimi, P. Jabehdar-Maralani, B. Moshiri, B. Lohmann, "**Numerically efficient approximation to the optimal control of singularly perturbed systems based on Haar wavelets**" International Journal of Computer Mathematics Vol. 82, No. 4, pp 495-507 April 2005,(E)
28. Y. Koolivand, O Shoaie, A Zahabi, P. Jabehdar-Maralani," **A complete analysis of noise in inductively source degenerated CMOS LAN's**", IEICE Electronics Express, Vol.2 No. 1 pp 1-7, January 2005,(E)

29. H.R. Karimi, A. Babazadeh, P. Jabehdar-Maralani, B. Moshiri, N. Parspour “**Sensorless Adaptive Output Tracking of Transverse Flux Permanent Magnet Machines**”, The Bulletin of the Istanbul Technical University, Vol. 54, No. 3, pp 17-23, January 2005, (E)
30. H.R. Karimi, B. Lohmann, P. Jabehdar-Maralani, B. Moshiri, “**A computational method for solving optimal control and parameter estimation of linear systems using Haar wavelets**”, International Journal of Computer Mathematics, Vol. 81, No.9, pp 1121-1132, 2004, (E)
31. M. H. Ferdowsi, P. Jabehdar-Maralani, A.K. Sedigh, “**Design of bearing only vision based tracking filters**”, Optical Engineering, Feb. 2004, (E)
32. B. Labibi, B. Lohmann, A. K. Sedigh and P. Jabehdar-Maralani, “**Decentralized Stabilization of Large-Scale Systems via State feedback using descriptor Systems**”, IEEE Transaction on System, Man, and Cybernetics Vol. 33, no. 6, pp 771-776, Nov. 2003, (E)
33. B. Labibi, B. Lohmann, A. K. Sedigh and P. Jabehdar-Maralani, “**Robust Decentralised Control of Large-Scale Systems Via H-infinity Theory and using Descriptor System Representation**” International Journal System Sciences, Vol. 34 no. 12-13 October 2003, pp 705-715, (E)
34. B. Labibi, B. Lohmann, A. K. Sedigh and P. Jabehdar-Maralani, “**Robust Decentralized Stabilization of Large-Scale Systems via Eigenstructure assignment**”, International Journal of Systems Sciences, Vol. 34, No. 6, May 2003, (E)
359. A. Mousavi, P. Jabehdar-Maralani, “**Communication among agents: a set theoretic approach**”, Special Issue of Artificial and Computational Intelligence, International Journal TASK QUARTERLY, January 2003, (E)
36. A. Mousavi, P. Jabehdar-Maralani, “**Double-Faced rough sets and rough communication**”, Journal of Information Science Vol. 148/1-4 pp 57-69, Dec. 2002,
37. B. Labibi, B. Lohmann, A. K. Sedigh and P. Jabehdar-Maralani, “**Output feedback decentralized control of large-scale systems using weighted sensitivity functions minimization**”, Systems and Control Letters 47 (2002) 191-198, (E)
38. J. Askari, P. Jabehdar-Maralani, Lunze J, “**A Design method for stabilizing qualitative controllers**”, International Journal of Intelligent Automation and Soft Computing. pp 193-215, 2002, (E)
39. B. Labibi, B. Lohmann, A. K. Sedigh and P. Jabehdar-Maralani, “**Design of decentralized high-gain error-actuated controllers for Large-scale systems**”, Int. Journal of Modelling and Simulation, Vol.21, no. 4, pp 282-287, 2002 (E)
40. A. R. Rezazadeh, P. Jabehdar-Maralani, H. Mohseni, and J. Holtz, “**Modulation Error Observation and Regulation for use of Off-line Optimal PWM Feed High Power Synchronous Motors**”, Journal of Faculty of Engineering, University of Tehran. Vol. 35, No.2, pp 99-110, September 2001 (P)

41. A. Mousavi, P. Jabehdar-Maralani, "**Relative sets and rough sets**", Int. Journal of Applied Mathematics and Computer Science, Vol. 11, No. 3, 2001, pp 637- 654, (E)
42. B. Labibi, B. Lohmann, A. K. Sedigh and P. Jabehdar-Maralani, "**Sufficient condition for stability of decentralized control**", Electronics Letter, Vol. 36, No.6, 2000. pp 94-96 (E)
43. P. Jabehdar-Maralani, M. Ghassemi-Naraghi, "**Designing PI linear-fuzzy controller in higher order systems**". Journal of Faculty of Engineering, University of Tehran. Vol. 34, No.1, pp 1- 8, May 2000 (P)
44. F. Bahrami, P. Jabehdar-Maralani, G.Schmidt, "**Biomechanical analysis of sit-to stand transfer in healthy and paraplegic subjects**", Journal of Clinical Biomechanics. 15,2000, pp 123-133 (E)
45. P. Jabehdar-Maralani, S. Bakhtiari, "**Introduction to qualitative control and modeling**". Journal of Faculty of Engineering, University of Tehran, Vol. 34, No. 2, September 2000 (P)
46. P. Jabehdar-Maralani, F. Bahrami, M. Erfani, "**Simulation of the voluntary movements of paraplegic patients standing up**", Journal of Faculty of Engineering , University of Tehran, Vol. 33, No. 2 September 1999 (P)
47. P. Jabehdar-Maralani, "**Digital communication networks and n-port resistive circuits**", Journal of Faculty of Engineering, University of Tehran, Vol. 46,pp. 1925,1985 (P)
48. P. Jabehdar-Maralani, "**A generalization of mesh-delta transformation in resistive networks**", Journal of Faculty of Engineering, University of Tehran, vol. 46, pp 10-19, 1985 (P)
49. P. Jabehdar-Maralani, "**Application of graph theory in modeling of physical systems**", Journal of Faculty of Engineering , University of Tehran, vol. 22, pp 191-199,1972 (P)
50. P. Jabehdar-Maralani, "**Optimal size studies of domestic Communication networks**" MM-70-3411-3, Bell Labs Technical Memo, 1970 (E)
51. P. Jabehdar-Maralani "**A study of optimal structures for domestic communication networks**", MM-70-3411-2, Bell Labs, Technical Memo,1970 (E)
52. P. Jabehdar-Maralani, "**Network sensitivity with regard to estimated link length**", MM70-3212-1, Bell Labs. Technical Memo, 1970 (E)
53. P. Jabehdar-Maralani, "**Installation deferral in Communication networks**", MM69-3212-5, Bell Labs. Technical Memo, 1969 (E)
54. H. Frank, P. Jabehdar-Maralani, "**A note on minimal transformerless realization of RLC networks**", IEEE Trans. on Circuit Theory,1969 CT-16, pp 94-96 (E)

REFERRED CONFERENCE PAPERS (E = English P = Persian):

1. B. Tavassoli, P. Jabehdar-Maralani, "**A Probabilistic Approach to Lyapunov Method with Application to Networked Control Systems**", 20th Iranian Conference on Electrical Engineering, (ICEE) 2012, Tehran, (P).
2. M.H. Rezaei, P. Jabehdar-Maralani, "**Two-level hierarchical optimal control based on interaction principle for large scale system**" 20th Iranian Conference on Electrical Engineering , (ICEE) 2012, pp 828-833, (P)
3. S.Aghli Moghaddam, S. Mohammadi, P. Jabehdar-Maralani, "**Fast and Accurate SWCNT bundle magnetic inductance models**", IEEE 4th International Conference on Nanoelectronics (INEC), 2011, (E)
4. M.H. Rezaie, P. Jabehdar-Maralani, "**Application of hierarchical control in generalized predictive control**", International conference on Intelligent and Advanced Systems, ICIAS, 2010, (E)
5. J. Hejazi, P. Jabehdar-Maralani, "**Role and Changes of Iranian Engineering Schools**", Conference on Changes on Iranian Universities and an Overview into Entrepreneurship", Feb. 18, 2009.Tehran, (P)
6. S. Aghli Moghaddam, S. Mohammadi, P. Jabehdar-Maralani, "**Comparison of dual rail and an enhanced bundled data asynchronous protocols noise robustness in the GALS NoC link application**", 14th International Computer Conference,2009, CSICC 2009, pp 236-241,(E)
7. M. Emadi Andani, F. Bahrani, P. Jabehdar-Maralani, A. Jan Ijspeert, "**A Modularized Hierarchical Structure to Model Human Motor Control System** ", Proceedings of the Third International Conference on Modeling, Simulation and Applied Optimization, Sharjah, U.A.E January 20-22, 2009, pp. 0-000. (E)
8. M. Razeghi Jahromi, P. Jabehdar-Maralani, "**Output Tracking Control of a Class of Nonlinear Non-minimum phase or Critically Minimum phase Systems via Backstepping Procedure**", 17th IEEE International Conference on Control Applications Part of 2008 IEEE Multi-conference on Systems and Control, San Antonio, Texas, USA, September 3-5, 2008. (E)
9. B. Tavassoli, P. Jabehdar-Maralani, N. Rezaei, "**Analysis of a Control System over Shared Access CSMA Network with Variable Traffic**", 16th Iranian Conference on Electrical Engineering, Tarbiat Modares University, May 13-15, 2008. (E)
10. A. Karami, H.R. Karimi, B. Moshiri, P. Jabehdar-Maralani, "**Wavelet-based Intelligent Optimal Control of Robotic Manipulators**", Proceedings of the European Control Conference 2007, July 2-5, 2007, Kos, Greece, pp. 3777-3782. (E)

11. M. Emadi Andani, F. Bahrami, P. Jabehdar-Maralani, "**A Biologically Inspired Modular Structure to Control the Sit-to-Stand Transfer of a Biped Robot**", Proceedings of the 29th Annual International Conference of the IEEE EMBS, August 23-26, 2007, Lyon, France, pp. 3016-3019. (E)
12. B. Tavasoli, P. Jabehdar-Maralani, "**Optimal Tuning of Control Systems over Ethernet**", Proceedings of the 46th IEEE Conference on Decision and Control, December 12-14, 2007, New Orleans, LA, USA., pp. 671-676. (E)
13. Y. Koolivand, O. Shoaee, A. Fotowat-Ahmadi, A. Zahabi, P. Jabehdar-Maralani, "**Nonlinearity Analysis in ISD CMOS LNA's Using Volterra Series**", GLSVLSI'06, April 30-May 2, 2006, Philadelphia, Pennsylvania, USA., pp. ??-??. (E)
14. H. R. Karimi, P. Jabehdar-Maralani, B. Lohmann, B. Moshiri, "**Haar Wavelet-Based Optimal Control of Time-Varying State-Delayed Systems: A Computational Method**", Proceedings of the 2006 IEEE Conference on Computer Aided Control Systems Design, Munich, Germany, October 4-6, 2006, pp. ??-??. (E)
15. S. Aghli Moghaddam, N. Masoumi, P. Jabehdar-Maralani, A. A. Shishegar, "**Analysis and Simulation of a Novel Gradually Low-K Dielectric Structure for Crosstalk Reduction in VLSI**", Proceeding of the 17th ICM 2005, pp. 110-114. (E)
16. B. Tavassoli, P. Jabehdar-Maralani, "**Robust Design of Networked Control Systems with Randomly Varying delays and Packet Losses**", Proceedings of the 44th IEEE Conference on Decision and Control, and the European Control Conference 2005, Seville, Spain, December 12-15, 2005, pp. 1601-??. (E)
17. H. R. Karimi, B. Moshiri, P. Jabehdar-Maralani, B. Lohmann, "**Adaptive H_{∞} -Control Design for a Class of LPV Systems**", Proceedings of the 44th IEEE Conference on Decision and Control, and the European Control Conference 2005, Seville, Spain, December 12-15, 2005, pp. 7918-??. (E)
18. M. Emadi Andani, F. Bahrami, P. Jabehdar-Maralani, C. Lucas, "**Prediction of the movement of getting up from a chair using enforced learning**" 12th Iranian Conference on Biomedical Engineering Conference, Sahand Technological University, Tabriz, Nov. 2005, (P)
19. H. R. Karimi, B. Moshiri, P. Jabehdar-Maralani, B. Lohmann, " **H_{∞} Control of Linear Parameter-Dependent State-Delayed Systems**", IEEE CCA'05, pp. ??-??. (E)
20. Y. Koolivand, O. Shoaee, A. Zahabi, H. Shams, P. Jabehdar-Maralani, "**A New Technique for Design of CMOS LNA for Multi-Standard Receivers**", ISCAS Conference International Symposium on Circuits and Systems, May 2005, pp. ??-??. (E)
21. H. R. Karimi, P. Jabehdar-Maralani, B. Moshiri, B. Lohmann, "**Haar Wavelet-Based Optimal Control of Time-Varying State-Delayed Systems: A Computational Method**", CIMA'0, (E)

22. H. R. Karimi, P. Jabehtar-Maralani, B. Moshiri, B. Lohmann, "**Robust H_∞ control of uncertain parameter-dependant systems**", 13th ICEE2005, Vol. 3, pp 331-336, May 2005, (E)
23. H. R. Karimi, B. Moshiri, P. Jabehtar-Maralani, B. Lohmann, "**Haar wavelet application in optimal control of singularly perturbed systems**", 13th ICEE2005, Vol. 3, pp 243-248, May 2005, (E)
24. A. Zahabi, O. Shoaee, Y. Koolivand, P. Jabehtar-Maralani, "**A Low Power Delta-Sigma Modulator with low capacitor spread for multi-standard receiver applications**", ISCAS May 2005 Japan. (E)
25. Y. Koolivand, O. Shoaee, A. Zahabi, H. Shamsi, P. Jabehtar-Maralani " **A New technique for design of CMOS LNA for multiple standard receivers**", ISCAS May 2005, Japan. (E)
26. H. R. Karimi, P. Jabehtar-Maralani, B. Moshiri, B. Lohmann," **Successive Leveraged wavelet-Galerkin Algorithm for Sub-optimal Control of Nonlinear Systems**", 8th Siam Conference on Optimization, 2005, (E)
27. H.R. Karimi, P. Jabehtar-Maralani, B. Moshiri ,B. Lohmann " **Approximated optimal control of singularly perturbed systems via haar wavelets**" 16 IFAC World Congress Prague, July 4-8, 2005, (E)
28. H.R. Karimi, B. Moshiri, P. Jabehtar-Maralani, B. Lohmann, "**Stochastic control design for stochastic uncertain time-delay systems**" 16 IFAC World Congress Prague, July 4-8, 2005, (E)
29. A. Zahabi, O. Shoaee, Y. Koolivand, P. Jabehtar-Maralani, "**A Two-stage Genetic Algorithm Method for Optimization the $\Sigma\Delta$ Modulators**" ASP-DAC 2005, January, 18-21, 2005, Shanghai, China, 1212-1215, (E)
30. H.R. Karimi,B. Lohmann,B. Moshiri, P. Jabehtar-Maralani, "**A wavelet-based approach for optimal control of linear systems in time domain**" Siam Annual meeting Portland Oregon, 2004. (E)
31. H.R. Karimi, B. Lohmann, P. Jabehtar-Maralani, B. Moshiri, "**A wavelet based approach for optimal control of second order linear systems**", 12th Mediterranean Conference on Control and Automation, MED04 Kusadasi, Turkey., June 2004. (E)
32. R. Mohammadi-Milasi, P. Jabehtar-Maralani "**Power System Transient Stabilization and Voltage Regulation Based on Simple Neuron Structure**" IEEE International Conference on Mechatronics, June 3-5, 2004, Istanbul/Turkey, (E)
33. H.R. Karimi, B. Lohmann, B. Moshiri, P. Jabehtar-Maralani," **Nonlinear system identification and control design using adaptive wavelet network**", 6th IFAC Conference on Nonlinear Control Systems, pp 651-656, Stuttgart, Germany, September 2004. (E)

34. S.Afkhami, P. Jabehdar-Maralani, M.J. Yazdanpanah, "**Stabilization of Double Inverted Pendulum on a Cart by using Integral-Input-to-State-Stability Concept**", 23 IASTED International Conference on Modelling, Identification and Control, MIC 2004, Feb. 23-25, 2004 Switzerland, (E)
35. S. Afkhami, P. Jabehdar-Maralani, M.J. Yazdanpanah, "**Generalization of CLF-Based Nonlinear Control Systems**", 4th IFAC Workshop on Time Delay Systems September 8-10, 2003, Paris, France. (E)
36. R. Miri, S. K. Setarehdan, P. Jabehdar-Maralani, "**Wavelet Transform Based Ultrasound Scan Line Compression for a Tele-Ultrasound System**", 7th World Multi Conference on Systemics, Cybernetics and Informatics, 2003, (SCI2003), Orlando, USA (E)
37. R. Miri, S. K. Setarehdan, P. Jabehdar-Maralani, "**Ultrasound Data Compression in a Tele-Ultrasound System**", International Association of Science and Technology for Development (IASTED BIOMED 2003), Salzburg, Austria. (E)
38. R. Miri, S. K. Setarehdan, P. Jabehdar-Maralani, "**Ultrasound Image Compression Using the 1-D EZW algorithm Applied to the Ultrasound RF Signals**", International Association of Science and Technology for Development (IASTEDBIOMED 2003), Salzburg, Austria. (E)
39. R. Miri, S. K. Setarehdan, P. Jabehdar-Maralani, "**Medical ultrasound Image Compression and Coding**" International Conference of Ultrasonics 2003 Granada, Spain, (E)
40. R. Miri, S. K. Setarehdan, P. Jabehdar-Maralani, "**Design a Data Compression Method in a Tele-Ultrasound System**", International Symposium on Tele-Communication (IST 2003), Isfahan, Iran. (E)
41. R. Miri, S. K. Setarehdan, P. Jabehdar-Maralani, "**A Comparison between Ultrasound Scan Line Compression Methods**", World Congress on Medical physics and Biomedical Engineering (WC2003), Sydney, Australia. (E)
42. B. Labibi, A. Khaki-Sedigh, P. Jabehdar-Maralani, "**Solving Weighted Mixed Sensitivity H-infinity Problem by Decentralised Control Feedback via Modifying Weighting Functions and Using Descriptor System Representation**", 4th IFAC Symposium on Robust Control Design, 25-27 June 2003, Milan. (E)
43. S. Afkhami, M.J. Yazdanpanah, P. Jabehdar-Maralani, "**Stabilization of Inertia Wheel Pendulum Using Output Feedback Back-Stepping**", 2003 IEEE Conference on Control Applications (CCA 2003) June 23-25, 2003, Istanbul, Turkey. (E)
44. M. Tavanai, P. Jabehdar-Maralani, and S. Tavanai, "**Robot Localization in a Closed and Unknown Environment and Identification of Its Location by the Robot Itself**", 9th Iranian Conference on Electrical Engineering, May 2001, pp 15.1-15.8, Tehran (P)

45. S. Orafa, P. Jabehtar-Maralani, "**Control Engineering and the Trends of Its Educational Development**", 9th Iranian Conference on Electrical Engineering May 2001, pp 13.1-13.6, Tehran (P)
46. M. R. Omid, M. J. Yazdanpanah, and P. Jabehtar-Maralani, "**Minimization of the Oscillation of Control Signals in HVAC Systems by Reinforced Learning**", 9th Iranian Conference on Electrical Engineering, May 2001, pp 25.1-25.8, Tehran (P)
47. S. Afkhami, P. Jabehtar-Maralani, and M.J. Yazdanpanah, "**New Results on Input-to-State Stability**", 9th Iranian Conference on Electrical Engineering, May 2001, Tehran (E)
48. B Labibi, B. Lohmann, A.K. Sedigh and P. Jabehtar-Maralani, "**A New Sufficient Condition for Stability of Decentralized Control**", 8th Iranian Conference on Electrical Engineering, May 2000, pp 75-78, Isfahan (E)
49. B. Labibi, B. Lohmann, A. K. Sedigh, and P. Jabehtar-Maralani, "**A New Method For Decentralized Control of Large Scale Systems**", in Proc. IASTED, Conf. Modelling, Identification, and Control,(MIC), pp.105-108, 2000 (E)
50. A.Khaki-Sedigh, P. Jabehtar-Maralani, B. Lohmann, and B. Labibi, "**Output Feedback Decentralized Control of Large-Scale Systems**", 8th Iranian Conference on Electrical Engineering, May 2000, pp 79-83, Isfahan (E)
51. B. Labibi, B. Lohmann, A. K. Sedigh and P. Jabehtar-Maralani, "**Decentralized Robust Control of Large Scale Systems via Sensitivity Reduction to the Interactions**", in Proc. American Control Conference Vol. 2, pp 818-823, 2000 (E)
52. B. Labibi, B. Lohmann, A. K. Sedigh, and P. Jabehtar-Maralani, "**High Gain Decentralized Control**", in Proc. IASTED, Conference, Modelling, Identification, and, Control, (MIC), pp 109-111, 2000 (E)
53. B. Lohmann, B. Labibi, A. K. Sedigh, and P. Jabehtar-Maralani, "**Decentralised Control via Eigenstructure Assignment**", Proc. Of the IEEE International Conference on Systems, Man and Cybernetics, Vol. 3, pp 2247-2251, 2000, (E)
54. B. Lohmann, B. Labibi, A. K. Sedigh, and P. Jabehtar-Maralani, "**Decentralised Stabilization using Descriptor Systems**", Proc. Of the IEEE International Conference on Systems, Man and Cybernetics, Vol. 3, pp 2252-2256, 2000, (E)
55. A. Mossavi, P. Jabehtar-Maralani, "**Composition of Rough Sets and Relative Sets, a Method for Composing Information Tables**", 8th Iranian Conference on Electrical Engineering, May 2000, pp 237-234 Tehran (P)
56. M Razeghi-Jahromi, P. Jabehtar-Maralani, "**Output Asymptotic Tracking of a Certain Class of Non-minimum Phase Systems Using Backstepping Method**", 8th Iranian Conference on Electrical Engineering, May 2000, pp 213-220 Tehran (P)

57. M. Emadi, F. Bahrami, P. Jabehdar-Maralani, "**Prediction of Movement Pattern due to Constraint Isometric Forces in Lower Limbs**", 9th Iranian Conference of Biomedical Engineering, March 2000, pp, 419-423, Tehran (P)
58. F. Bahrami, S. Siahkollah, P. Jabehdar-Maralani, "**Improving the Computation of Inverse Dynamics Using two Optimization Methods**", 8th Iranian Conference on Biomedical Engineering, March 2000, pp 424-428 , Tehran (P)
59. B. Labibi, A Khaki-Sedigh, P. Jabehdar-Maralani, "**Output Feedback diagonal dominance via H.inf. Theory (State- Space)**", 7th Iranian Conference on Electrical Engineering, May 1999, pp 17-25 Tehran (E)
60. A. Moussavi, P. Jabehdar-Maralani, "**New considerations on Four-valued logic, relative sets**", 7th Iranian Conference on Electrical Engineering, May 1999 pp 25-32Tehran (P)
61. H. Motalebpour, C. Lucas, P. Jabehdar-Maralani, "**Scheduling of data-flow graphs using genetic algorithms**", 7th Iranian Conference on Electrical Engineering, May, 1999, pp 125-132Tehran (P)
62. M. Emadi, F Bahrami, P. Jabehdar-Maralani, "**Estimation of sit-to-stand movement using two methods of parameterizing the search space**", 7th Iranian Conference on Electrical Engineering, May 1999, pp 9-16Tehran (P)
63. A. Akbari-Alvanag, P. Jabehdar-Maralani, B.Moshiri, "**Design Mu sample-data and robust control of load-frequency in Power Systems**", 7th Iranian Conference on Electrical Engineering, May 1999, Tehran (P)
64. H. Mahmoodvandi, P. Jabehdar-Maralani, "**Optimum selection of wavelet functions and its generalization to multi- dimensional space**", 7th Iranian Conference on Electrical Engineering, May 1999, pp 179-186 Tehran (P)
65. N. Mahmoodvandi, P. Jabehdar-Maralani, "**Modeling of hybrid Signals and nonlinear systems by Wavelet-Fourier Functions**", 7th Iranian conference on Electrical Engineering, May 1999, pp 229-236 Tehran (P)
66. P. Jabehdar-Maralani, H. Mahmoodvandi "**Identification of Linear time varying systems by wavelet functions**", 7th Iranian Conference on Electrical Engineering, May 1999, pp 245 252 Tehran (P)
67. S. Afkhami, P. Jabehdar-Maralani, "**Modeling of internal Combustion engines**", 7th Iranian Conference on Electrical Engineering, May 1999, pp 221-228Tehran (P)
68. M. Erfani, F. Bahrami, P. Jabehdar-Maralani, "**Designing Fuzzy FES controllers in view of voluntary movements of Paraplegic patients**", 7th Iranian Conference on Electrical Engineering, May 1999, pp 25-32Tehran (P)
69. S. Bakhtiari, P. Jabehdar-Maralani, "**Prototyping Qualitative Controllers for fuzzy-logic controller design**", 7th Iranian Conference on Electrical Engineering May 1999, pp 53-59 Tehran (E)

70. A. Akbari-Alvanag, P. Jabehdar-Maralani, B. Moshiri, "**Power System load-frequency control using sample-data H.inf. Technique**", 13th International Power System Conference, Oct. 1998, Tehran (P)
71. F. Bahrami, M. Erfani, P. Jabehdar-Maralani "**A fuzzy Rule-based simulation of the sit-to-stand task performed by a paraplegic patient**" 6th Iranian Conference on Electrical Engineering, May 1998, pp I141-I146, Tehran (E72)
72. S. Bakhtiari, P. Jabehdar-Maralani, "**A new method for Qualitative stabilization of nonlinear systems**", Nonlinear Control System Design Symposium, July 1998, pp 842-847, The Netherlands (E)
73. S. Bakhtiari, P. Jabehdar-Maralani, "**Qualitative stabilization on absorbing Markov chains**", 6th Iranian Conference on Electrical Engineering, May 1998, pp I77-I82, Tehran (E)
74. S. Bakhtiari, P. Jabehdar-Maralani, "**A robustness measure for Qualitative controls**", 6th Iranian Conference on Electrical Engineering, May 1998, pp I47-I51, Tehran (E)
75. P. Hossein-Nejad, P. Jabehdar-Maralani, "**A hybrid neural Classical scheme for output tracking control of nonlinear Unknown dynamics**", 5th Iranian Conference on Electrical Engineering, May 1997, vol 4, pp 100-107, Tehran (E)
76. R. Hossein-Nejad, P. Jabehdar-Maralani, "**A method for on-line neural set point regulation of nonlinear systems**", 5th Iranian Conference on Electrical Engineering, May 1997, Vol. 4, pp 92-99, Tehran (E)
77. J. Askari, P. Jabehdar-Maralani, C. Lucas, "**Feasible Modeling of a system and reduction of knowledge-based Rules**", International Conference of Intelligent and Cognitive Systems, Sept. 1996, pp 82-87, Tehran (P)
78. A. Abbasfar, P. Jabehdar-Maralani, "**Estimation of wave Direction of coloured noise parametric model**", 4th Iranian Conference on Electrical Engineering May 1996, pp 378-385, Tehran (P)
79. A. Rezazadeh, P. Jabehdar-Maralani, "**Qualitative development of rule-based fuzzy controllers and comparison of fuzzy Controllers and qualitative controllers in a practical example of DC motor**", 4th Iranian Conference on Electrical Engineering, May 1996, pp 865-871, Tehran (P)
80. A. Rezazadeh, P. Jabehdar-Maralani, "**Robustness of qualitative Control and its application in controlling F-4 airplane**", 4th Iranian Conference on Electrical Engineering, May 1996, pp 678-688, Tehran (P)
81. S. Moaddab, P. Jabehdar-Maralani, "**A mobile robot control avoiding uncertain high energy disturbance**", Second World Automation Congress, May 1996, pp 27-30 Montpellier, France (E)

82. P. Jabehdar-Maralani, P. Zafar-Moghadam, "**Modeling non-linear Circuits by stepwise equivalent conductance**", 3rd Iranian Conference on Electrical Engineering, May 1995, pp 85-91, Tehran (P)
83. P. Jabehdar-Maralani, P. Zafar-Moghadam, "**Computation of Operating point in digital CMOS Circuits**", 3rd Iranian Conference on Electrical Engineering, May 1995, pp 150-157, Tehran (P)
84. Khanmohammadi, P. Jabehdar-Maralani, S. Moaddab, "**Neuro-fuzzy Controller of robot path planning**", International conference on fuzzy systems, ICAFS-94, Tabriz (E)
85. P. Jabehdar-Maralani, M. Momeni, "**Non-linear circuit simulation, Latency and increasing speed of convergence**", First Iranian Conference on Electrical Engineering, May 1993, pp 216-227, Tehran (P)
86. P. Jabehdar-Maralani, M. Momeni, "**Generalization of direct Method circuit simulator using object oriented programming and dynamic link technique**", The First conference on Computer Education, Research and Application in Iran, Feb.1993, Tehran (P)
87. P. Jabehdar-Maralani, M. Momeni, "**An object oriented Engine based approach to non-linear circuit simulation in time domain**", International Congress on Computational Methods in Engineering, May 1993, Shiraz (E)
88. G. Gharapetian, P. Jabehdar-Maralani, "**Non-typical load Modeling in load flow calculation**", 7th International Power System Conference, Nov. 1992, pp 163-171, Tehran (P)
89. R. Vatan, P. Jabehdar-Maralani, "**Selection of the initial Step size in integration of circuit equations using BDF Formula**", International Conference on Control and Modeling, July 1990, pp 1068-1072, Tehran (E)
90. S. M. Fakhraie, P. Jabehdar-Maralani, "**Solving non-linear Programming problems by hardware and neural computers**", International Conference on Control and Modeling , July 1990, pp 1026-1033, Tehran (E)
91. P. Jabehdar-Maralani, M. Zargari, "**A general method of Formulating switched capacitor networks nodal equations with application to large change sensitivity calculation**", International Conference on Control and Modeling, July 1990, pp 412-416, Tehran (E)
92. P. Jabehdar-Maralani, A. Abaye, "**Improving the convergence of the DC analysis of non-linear electronic circuits**", International Conference on Control and Modeling, July 1990, pp 381-391, Tehran (E)
93. H. Ahmadi, P. Jabehdar-Maralani, "**A Pragmatic and Graph Theoretical Approach to Decentralized Control of Large Scale Systems**", International Conference on Control, 1989 (E)
94. P. Jabehdar-Maralani, "**Steady state excitation in undirected distance biased random graphs**", Proc. of 13th Midwest Symposium on Circuit Theory, 1970 (E)