Dr. Sadjaad Ozgoli

Associate Professor
Control Group, School of ECE
Tarbiat Modares University

Research Interests

Major: Modeling and Simulation of Dynamic Systems, Robotics, Nonlinear Control, Robust Control.
Minor: Mechanics, Electronic Circuits.
Applications: Mechatronics, Biological Systems, Complex Networks, Social Networks.

Education

11/2006 - 03/2007 : **PostDoc**, Control Systems, Control and Instrumentation Group, Department of engineering, University of Leicester, Leicester, UK.
09/1999 - 07/2005 : **PhD**, Control Systems, EE Dept, K.N.Toosi Univ. of Tech., Tehran, Iran.
GPA: 19.2/20, (The best student).
09/1997 - 06/1999 : **MS**, Control Systems, EE Dept, Sharif Univ. of Tech., Tehran, Iran.
GPA: 18.5/20, (2nd best student)
09/1992 - 06/1997 : **BS**, Electronics, EE Dept, Sharif Univ. of Tech., Tehran, Iran.
GPA: 18.3/20, (2nd best student)
09/1985 - 06/1992 : **High School**, Allame Helli School (under supervision of NODET, National Organization for Developing Exceptional Talents), Tehran, Iran.

Theses

Date Degree	Title	Supervisor	Comments
07/2005 PhD	Design and Implementation of Position Control for Flexible Joint Robot Subject to Actuator Saturation	Dr Hamid D. Taghirad	- Implemented on a 2 DOF Flexible Joint Manipulator which has been designed and made by us in our Lab
06/1999 MS	Simulation and Trajectory Analysis of a Moving Satellite with Impulsive Control	Dr. M.A. Masum-nia	
06/1997 BS	Design and Implementation of a Sampling Compuscope (Using a PC as an oscilloscope)	Dr. M.H. Alavi	- Awarded the $500 *Fallah* Prize for the Best Thesis of The Faculty at Year 1997 - Total mark: 20.375 out of 20!

Honors

2007: Selected for the Visiting Research Associate position in the University of Newcastle, Australia.

2006: Awarded the Visiting Research Associate in the University of Leicester, UK.

2005: Selected for the Visiting Fellowship in Canadian Government Laboratories by NSERC (Canadian Natural Science and Engineering Research Council).

2003: Winner of the Best Prize, Student Paper Contest, for the paper "Optimal Distance to the Front Car, Solved by a fuzzy model", written by S. Ozgoli, A.Marandi, University of Tehran.

2002: Winner of the Special Prize of the Jury for superior ideas in construction of the *Ghoghnous* (phoenix) object-gathering robot, National Robotics Contest, University of Tehran.

2001: Patent registered (No. 1378/7/5/27477): *Remotely Controlled Switch* (controlled by TV/VCR remote control)

1999: Winner of the Fallah Prize for the Best BS Thesis Contest.

1997: Honored BS Student, selected by Ministry of Science, Research and Technology.

1992: Honored Competitor, 23rd International Physics Olympiad, Helsinki, Finland. (Ranked 1st among Iranian IPhO Team)

1992: Winner of the gold medal in the 4th Iranian National Physics Olympiad.

Posts and Affiliations

09/2007 - Pres. : Member of the Control Group, School of Electrical and Computer Engineering, Tarbiat Modares University (Control Systems).

10/2014 - 12/2016 : Head of control group, School of Electrical and Computer Engineering, Tarbiat Modares University (Control Systems).

06/2010 - Pres. : Head and founder, SyLiCon (Systems, Life Science and Control engineering) Research group, Tarbiat Modares University (Systems Biology).

10/2011 - 12/2014 : Director of the MD Committee, IEEE Iran Section.

02/2011 - 07/2013 : Manager of the IT Center, Tarbiat Modares University.

09/2010 - 09/2013 : Counselor of the IEEE Student branch, Tarbiat Modares University.

06/2007 - 06/2009 : Invited Lecturer, Control Group, EE Department, Faculty of Engineering, Tarbiat Modares University (Control Systems).

11/2006 - 03/2007 : Postdoctoral Research Associate, Control and Instrumentation Group, Faculty of Engineering, University of Leicester, (Constrained Actuator Control Systems).

08/2005 -11/2006 : Postdoctoral Research Associate, *ARAS* (Advanced Robotics and Automated Systems) Research Group, K.N.Toosi UT., (Robotic Control Systems).

01/2002 - 08/2005 : *ARAS* (Advanced Robotics and Automated Systems) Research Group, K.N.Toosi UT. (Robotic Control Systems).

08/2002 - 08/2003 : Design Engineer, *Iran Telecommunication Co.*, (Satellite Attitude Control Systems).

10/2001 - 09/2002 : Design Engineer, *Javan RoboClub*, (Control & Electronics of Mobile Robots).

05/2001 - 05/2002 : Design Engineer, *Dina Taban* Co., (Consumer Electronics).

03/2001 - 08/2001 : Design Engineer, *Asad San'at* Co., (Industrial Automation).

07/1997 - 01/1998 : Design Engineer, *EMAD* Micro Electronics Co., (Micro Controller Based Circuits).

01/1997 -11/1997 : Design Engineer, *Rasekh-Afzar* Computer Interfaces Co., (PC Interfacing Circuits).

06/1994 - 05/1996 : Design Engineer, *Etrat* Education-Research & Production Foundation, (Electronics Circuits).

Contacts

URL: http://modares.ac.ir/~ozgoli
Email: ozgoli@modares.ac.ir
Tel: +98-21-82883309
Fax: +98-21-82884325
Office: Room 6-812, ECE Building, Tarbiat Modares University, Nasr Bridge, Tehran, Iran.

Publications

Journal Papers

	Date	*Author(s)*	*Title*	*Journal*
1	Oct. 2016	S.Z, Paylakhi, S. Ozgoli, S. Paylakhi	Identification of Alzheimer disease-relevant genes using a novel hybrid method	Progress In Biological Sciences, Vol. 6, No. 1, pp. 37-46.
2	Jun. 2016	A. Bagheri. S. Ozgoli	Exponentially impulsive projective and lag synchronization between uncertain complex networks	Nonlinear Dynamics, Vol. 84, No. 4, pp. 2043-2055.
3	Jan. 2016	S. Sanjari, S. Ozgoli	Sliding mode control design: a sum of squares approach	arXiv preprint arXiv:1503.08642
4	Jun. 2015	S. Sanjari, S. Ozgoli	Finite time analysis based on sum of squares technique: applied to the super twisting second order sliding mode control	arXiv preprint arXiv:1503.08642
5	Mar. 2015	S. Sanjari, S. Ozgoli	Generalized integral sliding mode manifold design: a sum of squares approach.	arXiv preprint arXiv:1503.08642
6	Jan. 2015	F. Motallebzadeh S. Ozgoli, H.R. Momeni	Multilevel adaptive control of nonlinear interconnected systems.	ISA Transactions, Vol.54, pp. 83-91.
7	Dec. 2014	A. Mirzaei, S. Ozgoli, A.E. Jajarm	Chaotic analysis of the human brain cortical model and robust control of epileptic seizures using sliding mode control	Systems Science & Control Engineering: An Open Access Journal Vol.2, No 1, pp. 216-227
8	Oct. 2014	امیرامینی، مهدی سجودی، سجاد ازگلی	طراحی کنترلگر بازخورد خروجی پویای غیرمتمرکز جهت تحقق توافق جمعی در سامانه‌ی چندعاملی شامل منیپولیتورهای تک بازو با مفصل انعطاف پذیر	مجله مهندسی مکانیک مدرس، جلد ۱۴، صفحه‌ی ۷۵-۸۴.
9	Sep. 2014	M. Azadegan, S. Ozgoli, H.D. Taghirad	Bilateral Teleoperation Control for Improving Transparency in Stiff Environment with Time Delay	Iranian Journal of Electrical & Electronic Engineering Vol.10, No.3, pp.203
10	Apr. 2014	H. Zakeri, S. Ozgoli	A sum of squares approach to robust PI controller synthesis for a class of polynomial multi-input multi-output nonlinear systems	Nonlinear Dynamics, Vol.76, No.2, pp.1485-1495
11	Sep. 2014	M. Rezaei, S. Ozgoli	Lucid Workspace for Stereo Vision	Journal of Intelligent & Robotic Systems, pp.1-15
12	Jan. 2012	H. Zakeri, S. Ozgoli	PI controller design for polynomial uncertain nonlinear systems using Sum of Squares decomposition	Journal of Control Vol. 6, No. 3.
13	Dec. 2011	H. Mahdianfar, S. Ozgoli,	Robust multiple model adaptive control: Modified using ν gap metric	Int. J. Robust and Nonlinear Control Vol. 2, No 18.

		H. R. Momeni		
14	Sep. 2009	S. Ozgoli, H.D.Taghirad	An Implemented Robust Supervisory Control to Remedy Actuator Saturation for Flexible Joint Robots	Mechatronics (Elsevier-IFAC) Vol. 19, Issue 6, pp 993–1002
15	Dec. 2006	S. Ozgoli, H.D.Taghirad	A Survey on the Control of Flexible Joint Robots	Asian Journal of Control Vol. 8, No 4.

Conference Papers (in English)

1	May. 2015	S.Z. Paylakhi, S. Ozgoli, S.H. Paylakhi	A novel gene selection method using GA/SVM and fisher criteria in Alzheimer's disease	23rd Iranian Conference on Electrical Engineering (ICEE 2015), pp. 956-959.
2	Oct. 2014	Z. Zeinaly, A. Ramezani, S. Ozgoli	Robust stability for bilateral teleoperation systems under time-varying delay by communication disturbance observer	Second RSI/ISM International Conference on Robotics and Mechatronics (ICRoM 2014), pp. 143-148.
3	Jun. 2013	S. Varzandian, H. Zakeri, S. Ozgoli	Locating WiFi access points in indoor environments using non-monotonic signal propagation model	9th Asian Control Conference (ASCC 2013), pp. 1-5.
4	Jun. 2013	M.M. Delbari, M.T.H. Beheshti, A. Ramezani, S. Ozgoli	Time delay sensitivity analysis in a wireless network control system using LMI approach	9th Asian Control Conference (ASCC 2013), pp. 1-4.
5	May. 2013	N.S. Hosseini, S. Ozgoli	Delay-dependent filtering for stochastic nonlinear genetic regulatory networks with time-varying delays and extrinsic noises	21st Iranian Conference on Electrical Engineering (ICEE 2013), pp. 1-6.
6	Feb. 2013	K. Moradi, S. Ozgoli, F. Pirvali	Control of nonlinear bilateral teleoperation system using sum of squares analysis	First RSI/ISM International Conference on Robotics and Mechatronics (ICRoM 2013), pp. 535- 539.
7	Jun. 2012	A.E. Jajarm, S. Ozgoli, H.R. Momeni	Blood glucose regulation using fuzzy recursive fast terminal sliding mode control	4th International Conference on Intelligent and Advanced Systems (ICIAS 2012), vol.1, pp. 393-397.
8	Jun. 2012	H. Zakeri, S. Ozgoli	A Polynomial modeling and state feedback control of blood glucose regulatory in diabetic patients	4th International Conference on Intelligent and Advanced Systems (ICIAS 2012), vol.1, pp. 388-392.
9	May. 2012	L. Khoshnevisan, S. Ozgoli, M.H. Shojaei	An LMI Approach to robust fault detection filter for a drum boiler system through a time-domain H-index norm method	20th Iranian Conference on Electrical Engineering (ICEE 2011), pp. 922- 927.
10	Dec. 2011	H. Zakeri, S. Ozgoli	Robust PI design for chaos control using sum of squares approach	2nd International Conference on Control, Instrumentation and Automation (ICCIA) 2011, pp. 721-724.
11	Dec. 2011	A. mirzaei, S. Ozgoli	A new impedance control structure for leg rehabilitation robot	2nd International Conference on Control, Instrumentation and Automation (ICCIA) 2011, pp. 952-956.
12	Dec. 2011	N.S. Hosseini, S. Ozgoli	Delay-dependent filter design for nonlinear delayed genetic regulatory networks with intrinsic and extrinsic noises	2nd International Conference on Control, Instrumentation and Automation (ICCIA) 2011, pp. 524-529.

13	Oct. 2011	H. Sadjadian, S. Ozgoli, M. Jalilfar	Design and implementation of automatic transmission electronic control system for mining trucks	International Conference on System Science, Engineering Design and Manufacturing Informatization (ICSEM) 2011, vol. 2, pp. 1-4.
14	May. 2011	M. Azadegan, S. Ozgoli, H.R. Taghirad	Delay-independent robust stability analysis of teleoperation	Chinese Control and Decision Conference (CCDC) 2011, pp. 4129-4133.
15	Feb. 2011	M. Azadegan, S. Ozgoli, H.R. Taghirad	Delay-independent stability analysis of internet-based teleoperation	Computer Networks and Distributed Systems (CNDS), 2011 International Symposium on, pp. 96-99.
16	Feb. 2011	H.K. Pamsari, M.A. Bidgoli, M. Rajabzadeh, S.M.T. Bathaee, S. Ozgoli	Application of a new multivariable sliding mode controller for the single machine infinite bus systems	2nd Power Electronics, Drive Systems and Technologies Conference (PEDSTC), pp. 211-216.
17	Jan. 2010	F. Motallebzadeh S. Ozgoli, H.R. Momeni	Multilevel adaptive control of interconnected nonlinear systems: application to double coupled inverted Pendulums	IFAC Proceedings Volumes, Vol. 43, No. 8, pp. 418-423.
18	Dec. 2009	S. Dadras, F. Motallebzadeh S. Ozgoli, H.R. Momeni	Control of chaotic uncertain brushless DC motors	Control and Automation, 2009. ICCA 2009. IEEE International Conference on, pp. 2143-2148.
19	Jun. 2009	F. Motallebzadeh S. Ozgoli	Controlling chaos in Arneodo system	Control and Automation, 2009. MED'09. 17th Mediterranean Conference on, pp. 314-319.
20	Oct. 2007	S. Ozgoli, M.C.Turner	An improved fuzzy error governor for MIMO systems with input saturation: development and comparison	SSSC07, IFAC Symp. on Systems, Structures and Control, Brazil
21	May. 2006	S. Ozgoli, H.D.Taghirad	Designing and Implementation of Mixed H_2/H_∞ Controller for Flexible Joint Robot to Encounter Actuator Saturation	ICEE06, 14th Iranian Conf. on Electrical Engineering, Amirkabir University, Tehran, Iran
22	Dec. 2005	S. Ozgoli, H.D.Taghirad	Stability Analysis of a Robust Composite Controller for FJR With a Supervisory Loop [accepted, withdrawn]	CDC+ECC05, IEEE Int. Conf on Decision and Control + European Control Conf, Seville, Spain
23	Jul. 2005	H.D.Taghirad, S. Ozgoli	Robust Controller with a Supervisor Implemented on a Flexible Joint Robot	CCA05, IEEE Int. Conf on Control Applications, Toronto, Canada
24	Jul. 2005	S. Ozgoli, H.D.Taghirad	Robust Stability Analysis of Flexible Joint Robots Composite Control with Supervisory Loop	IROS05, IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, Edmonton, Canada
25	May. 2005	S. Ozgoli, H.D.Taghirad	Designing H_2/H_∞ Controller for FJR to Remove Instability due to Saturation	ISME05, 13th Int. Mechanical Engineering Conf., Isfahan UT, Iran
26	May. 2005	S. Ozgoli, H.D.Taghirad	Robust Control for Flexible Joint Robots with A Supervisory Control to Remedy Actuator Saturation	ICEE05, 13th Iranian Conf. on Electrical Engineering, Zanjaan University, Iran
27	Sep. 2004	S. Ozgoli, H.D.Taghirad	Design of Composite Controller for Flexible Joint Robots with Saturating Actuator	MechRob04, IEEE/APS Mechatronics and Robotics Conf., Aachen University, Germany
28	Sep. 2004	S. Ozgoli, H.D.Taghirad	Using Fuzzy Logic to Remedy Actuator Saturation in a Composite Controller for Flexible Joint Robot	5th Iranian Conf. On Fuzzy Systems, Imam Hussein University, Tehran, Iran
29	Sep. 2003	S. Ozgoli, H.D.Taghirad	Fuzzy Logic Supervisory Loop to Remedy Actuator Saturation Drawbacks	ICSE2003, 16th Int. Conf. on System Eng., Coventry University, England

Conference Papers (in Persian)

#	*Title*	*Conference*	*Author*	*Date*
1	طراحی کنترلگر پویای خروجی مقاوم مرتبه ثابت برای سامانه تعلیق خودرو با عدم قطعیت چند وجهی	1st National Industrial Mathematics Conference, University of Tabriz, Tabriz, Iran	P. Badri, M. Sojoodi, S. Ozgoli	May. 2014
2	کنترل بیماری دیابت با مدل بهبود یافته دالامن با استفاده از روش کنترل	21st Iranian Conference on Electrical Engineering, Ferdowsi University, Mashhad, Iran	M. A. Sardari, S. A. Sardari, S. Ozgoli	May. 2013
3	مدل‌سازی احتمال رخداد لختگی عمقی خون سیاهرگی با استفاده از منطق فازی	12th Iranian Conference on Fuzzy Systems, University of Mazandaran, Babolsar, Iran	S. Kalateh, S. Ozgoli, M.T.H. Beheshti	Nov. 2012
4	ارتقا مدلسازی رشد تومور سرطانی با ترکیب روش درمانی ضدرگ زایی و شیمی درمانی	15th Iranian Student Conference on Electrical Engineering, University of Kashan, Kashan, Iran	A .Feizi Zadeh, S. Ozgoli, M. Ghanei	Sep. 2012
5	ارتقا مدل ناحیه کاردینگ در ماشین کارد الیاف کوتاه	8th Iranian National Conference on Textile Engineering, University of Yazd, Yazd, Iran	S. Saberi, E. Ekhtiari, S. Ozgoli	May. 2012
6	مدل سازی و طراحی سیستم کنترل دیجیتال برای ماشین کارد در فاز دوم خط پیچش الیاف کوتاه	14th Iranian Student Conference on Electrical Engineering, Kermanshah University of Technology, Kermanshah, Iran	S. Saberi, E. Ekhtiari, S. Ozgoli	Sep. 2011
7	تخمین حالت شبکه‌های تنظیم ژن در حضور تأخیر متغیر با زمان و نویز تصادفی درمعادلات حالت و اندازه‌گیری	19th Iranian Conference on Electrical Engineering, Amir Kabir University of Technology, Tehran, Iran	N.S. Hosseini, S. Ozgoli	May. 2011
8	کنترل مرتبه کسری سیستم کارکرد از دور در حضور تأخیر متغیر با زمان در محیط سخت	19th Iranian Conference on Electrical Engineering, Amir Kabir University of Technology, Tehran, Iran	M. Azadegan, E. Amini, S. Ozgoli, H.R. Momeni	May. 2011
9	کنترل سیستم کارکرد از دور در حضور تاخیر متغیر با زمان در محیط سخت	13th Iranian Student Conference on Electrical Engineering, Tarbiat Modares University, Tehran, Iran	M. Azadegan, S. Ozgoli, H.R. Taghirad	Sep. 2010
10	معرفی سامانه‌های رباتی کارکرد از دور و مروری بر انواع روش‌های کنترل آن‌ها	13th Iranian Student Conference on Electrical Engineering, Tarbiat Modares University, Tehran, Iran	M. Azadegan, S. Ozgoli	Sep. 2010
11	کنترل بهینه با وجود نامعینی با استفاده از روش نامساوی های ماتریسی خطی	10th Iranian Student Conference on Electrical Engineering, Isfahan University of Technology, Isfahan, Iran	S. M. Heydarieh S. Ozgoli, H.R. Momeni	Mar. 2007
12	طراحی و پیاده‌سازی کنترل برای رباتهای کشسان‌مفصل با استفاده از حلقۀ ناظر فازی برای برخورد با مشکل اشباع عملگر	14th Annual Conference on Mechanical Engineering, Isfahan University of Technology, Isfahan, Iran	S. Ozgoli, A. M. Lotfi, H.R. Taghirad	May. 2006
13	مقالۀ آموزشی: استفاده از روش انحراف تکین برای مدلسازی سیستم‌های دارای قطبهای دور از هم	7th Iranian Student Conference on Electrical Engineering, K.N Toosi University of Technology, Tehran, Iran	S. Ozgoli	Oct. 2004

14	نقش مهندسان مسلمان در تاریخ مهندسی کنترل	7th Iranian Student Conference on Electrical Engineering, K.N Toosi University of Technology, Tehran, Iran	S. Ozgoli, A. K. Seddigh	Oct. 2004
15	استفاده از حلقه ناظر با منطق فازی برای جلوگیری از اشباع عملگر	5th Universal Conference on Intelligent Systems, Ferdowsi University, Mashhad, Iran	S. Ozgoli, H.R. Taghirad	Jan. 2004
16	حل مسئلۀ فاصلۀ بهینه با خودروی جلویی توسط مدل فازی خودرو	5th Iranian Student Conference on Electrical Engineering, University of Shiraz, Shiraz, Iran	S. Ozgoli, A. Marandi	Sep. 2002
17	آشنایی با روباتهای کشسان مفصل و هارمونیک درایو	5th Iranian Student Conference on Electrical Engineering, University of Shiraz, Shiraz, Iran	S. Ozgoli, H.R. Taghirad	Sep. 2002

Book

Date	Author(s)	Title
2010-10	S. Ozgoli, M.R.Arvan	Modeling and Simulation of Moving Systems (in Persian)

Book Parts

Date	Author(s)	Title	Publisher	Part(s) by me
1/2004	G. Maral, M. Bousquet	Satellite Communications Systems (translated to Persian)	Iranian Company of Telecommunications	Chapter 10: "*Platform (Attitude Determination and Control Subsystem)*" Translated to Persian by me
12/2005	A.K. Sedigh	History of Control Engineering (in Persian)	K.N.Toosi University of Technology Press	Chapter 2: "*The role of Muslim engineers in history of control*" written by me

Patents

Date	Title	Reg. No. (Iran Copyright Org)
2016	*Wearable Exoskeleton Robot Special for Rehabilitation and Personal Usage by Lower Body Paralysis Disables*	1395/8/22/90390
2014	*Design and Production of A Device To Find The Position of A Source Propagation In WiFi Networks*	1393/2/2/82698
2011	*Designing and Implementation of PH Controller in Fed-batch Process for Yeast Production*	…
2001	*Remotely Controlled Switch* (controlled by TV/VCR remote control)	1378/7/5/27477

Research

Granted Projects

Date	Title	Supported by
2011	Modeling of deep Thrombophelebitis	Tarbiat Modares University and Shariati Hospital
2010	Control of teleoperation robotic system	Tarbiat Modares University

2010	Modeling and error analysis in 3D vision system of a humanoid robot	Tarbiat Modares University
2005	Implementation and control of a flexible joint robot arm	K.N.Toosi UT
11/2001 – 5/2002	An Academic Research on the Role of Moslem Engineers in the History of Control	K.N.Toosi UT
10/2001 – 6/2002	*Ghoghnous* (phoenix) Object Gathering Robot	*Javan* Roboclub
3/2001 – 8/2001	Automation of a PVC painting station for car body (Implemented on Siemens S7 PLC)	*Asad San'at* Co.
9/1997 – 1/1999	3-tariff kWh-Meter, (Designed & Implemented on 8951' Microcontroller)	*Emad Micro Electronics* Co.
10/1995 – 12/1997	Design and Implementation of a Sampling Compuscope	*Rasekh-Afzar Hardware Interfaces* Co.
3/1997 – 11/1997	Design and Implementation of a D/A PC Interface Card to Control a Robot Manipulator	*Rasekh-Afzar Hardware Interfaces* Co.

Theses Supervised

Date, Grade	Title	Supervisor, Student	Dept. / University
Fall 2013, MS	Tumor growth model improvement with respect to the kind of effective cell and design anti-tumor controller	Dr. S. Ozgoli, F. Mohammad Hasani	EE. / Tarbiat Modares University
Summer 2013, MS	Nonlinear observer design using Sum of Squares Decomposition	Dr. S. Ozgoli, F. Laeli	EE. / Tarbiat Modares University
Winter 2013, MS	Nonlinear controller design using Sum of Squares Decomposition	Dr. S. Ozgoli, H. Zakeri	EE. / Tarbiat Modares University
Winter 2013, MS	Chaotic modeling of Epilepsy and proposing a control algorithm	Dr. S. Ozgoli, A. Mirzaei	EE. / Tarbiat Modares University
Winter 2013, MS	Robust control of teleoperation robots with nonlinear dynamics	Dr. S. Ozgoli, K. Moradi	EE. / Tarbiat Modares University
Winter 2012, MS	Fixed-order robust H2 controller design for systerms with ellipsoidal parametric uncertainty	Dr. S. Ozgoli, M. Zadi	EE. / Tarbiat Modares University
Fall 2011, MS	Evaluation of surgical robots	Dr. S. Ozgoli, A. Lotfi	EE. / Tarbiat Modares University
Summer 2011, MS	Control methods for the analysis of biological systems	Dr. S. Ozgoli, N. Hosseini	EE. / Tarbiat Modares University
Summer 2011, MS	Designing and Implementation of PH Controller in Fed-bech Process for Yeast Production	Dr. S. Ozgoli, M. H. Kheradmandi	EE. / Tarbiat Modares University
Spring 2011, MS	Design of model based error detection system for power plant systems with the practical approach	Dr. S. Ozgoli, M. H. Shojaei	EE. / Tarbiat Modares University
Summer 2010, MS	Teleoperation systems control in presence of transparence criteria using sliding mode control	Dr. S. Ozgoli, Dr. H.D. Taghirad, M. Azadegan	EE. / Tarbiat Modares University

Theses Advised

Date, Grade	Title	Supervisor, Student	Dept. / University
Winter 2013, MS	Motion pattern recognition using fuzzy inference system and sliding mode controller design for lower external skeleton robot	Dr. M. T. Hamidi Beheshti, Dr. S. ozgoli, F. Pirvali	EE. / Tarbiat Modares University
Winter 2013, MS	Rehabiliation robot Control with approach of momentary hardness setting	Dr. M. T. Hamidi Beheshti, Dr. S. ozgoli, M. R. Ebrahimpour	EE. / Tarbiat Modares University
Fall 2011, MS	Modeling of deep Thrombophelebitis using intelligent system methods	Dr. M. T. Hamidi Beheshti, Dr. S. ozgoli, S. Kalateh	EE. / Tarbiat Modares University
Fall 2011, MS	An optimal tracker design with maintaining dynamic stability for a quadruped robot	Dr. V. Johari Majd, Dr. S. Ozgoli,	EE. / Tarbiat Modares University

Semester	Title	Supervisors	Dept. / University
		R. Yazdani	
Spring 2010, MS	Encounter with uncertainty problem in economic systems using robust control methods	Dr. H. D. Momeni, Dr. S. Ozgoli, M. Heidarieh	EE. / Tarbiat Modares University
		Motallebzadeh	EE. / Tarbiat Modares University
Spring 2009, MS	Robust multiple model adaptive control: Modified using ν-gap metric	Dr. H. R. Momeni, Dr. S. Ozgoli, H. Mahdianfar	EE. / Tarbiat Modares University
Spring 2005, BS	Design and Implementation of a PID controller for a 2DOF FJ Manipulator	Dr. H.D. Taghirad, Alireza Moradian	EE / K.N.Toosi UT
Spring 2005, BS	Design and Implementation of a 2DOF Flexible Joint Manipulator	Dr. H.D. Taghirad, Asghar Ata Ollahi	EE / K.N.Toosi UT
Fall 2004, MS	Robust QFT Control of Flexible Joint Robots	Dr. H.D. Taghirad, Habib Rahimi	EE / K.N.Toosi UT
Spring 2004, MS	Robust Nonlinear H∞ Control of Flexible Joint Robots	Dr. H.D. Taghirad, Mahdi Shaterian	EE / K.N.Toosi UT

Teaching Experiences

University Teaching

Semester	Course	Dept. / University
Fall 13	Robotics	EE. / Tarbiat Modares University
Fall 13	Advanced Engineering Mathematics	EE. / Tarbiat Modares University
Spring 13	Nonlinear Control	EE. / Tarbiat Modares University
Fall 12	Advanced Engineering Mathematics	EE. / Tarbiat Modares University
Spring 12	Nonlinear Control	EE. / Tarbiat Modares University
Fall 11	Advanced Engineering Mathematics	EE. / Tarbiat Modares University
Spring 11	Nonlinear Control	EE. / Tarbiat Modares University
Fall 10	Advanced Engineering Mathematics	EE. / Tarbiat Modares University
Fall 10	Robotics	EE. / Tarbiat Modares University
Spring 10	Research Methodology	EE. / Tarbiat Modares University
Spring 10	Nonlinear Control	EE. / Tarbiat Modares University
Spring 10	Robust Control	EE. / Tarbiat Modares University
Fall 09	Nonlinear Control	EE. / Tarbiat Modares University
Fall 09	Advanced Engineering Mathematics	EE. / Tarbiat Modares University
Spring 09	Robotics	EE. / Tarbiat Modares University
Fall 08	Nonlinear Control	EE. / Tarbiat Modares University
Fall 07	Robotics	EE. / Tarbiat Modares University
Fall 05	Modeling and Simulation	EE. / K.N.Toosi UT.

IT Skills

- CAD Tools: MATLAB, SIMULINK, PSPICE, Protel, OrCAD
- Programming Languages: Visual C, Pascal, Visual BASIC, Fortran
- General Packages: Professional Experience in MS-Word, Access, Excel, PowerPoint, VISIO and MS-Project.
- Ability of Hardware interfacing via programming languages and also via SIMULINK.

References

Dr H. D. Taghirad

K.N.Toosi University of Technology, EE Department
Associate Professor
Head of the Office for International Scientific Cooperation.
Taghirad@kntu.ac.ir
+98 21 8888 1003

Dr M. C. Turner

University of Leicester, Engineering Department
Lecturer.
mct6@le.ac.uk
+44 116 252 2548

Dr A. K. Sedigh

K.N.Toosi University of Technology, EE Department
Professor.
Sedigh@kntu.ac.ir
+98 21 8846 2174-7