CURRICULUM VITAE

GANG (Gary) FENG

Personal Details:

Employment

- Associate Provost (Academic Planning and Undergraduate Education), University of Hong Kong, 2009-
- Chair Professor of Mechatronic Engineering, Department of Mechanical and Biomedical Engineering, City University of Hong Kong, 2009-
- Associate Professor/Professor, Department of Manufacturing Engineering and Engineering Management, City University of Hong Kong, 2000-2009
- Senior Lecturer, School of Electrical Engineering and Telecommunication, University of New South Wales, 1995-2002
- Lecturer, School of Electrical Engineering and Telecommunication, University of New South Wales, 1992-1994
- Lecturer, Department of Electrical Engineering, Royal Melbourne Institute of Technology, 1991

Visiting Positions (Sabbatical leave)

- Humboldt Fellow, Aachen Technological University, Germany, 9/1997-2/1998
- Visiting Senior Fellow, National University of Singapore, 12/1996-8/1997

Education

- Ph.D. - Deptartment of Electrical & Electronic Engeering, University of Melbourne, Dec. 1988 - Jan. 1991
- M.Eng. - Deptartment of Automatic Control, Nanjing Aeronautical Institute, Feb. 1982 - Oct. 1984
- B.Eng. - Deptartment of Automatic Control, Nanjing Aeronautical Institute, Feb. 1978 - Jan. 1982

Teaching:

- **20** Ph.D. students graduated, and currently **4** Ph.D. students in progress
- **40** Post-Doctor/Research Associates supervised

- Taught Courses
  - Systems engineering and management
  - Topics in digital control, Neural networks, Adaptive control
  - Modern engineering equipment basics I
  - Modern engineering equipment basics II
  - Modern engineering equipment
  - Electrical and Electronic Principles I
  - Systems and Control II
  - Digital Control
  - Control Systems
  - Introduction to Motion Control Systems
  - Circuits

Research:

Research Grants (Please see Appendix I for details)

- **12** General Research Fund (GRF) grants as PI of a total amount HK$7,000,000, Research Grants Council of Hong Kong
- **4** Innovation and Technology Fund (ITF) grants as Co-I, Innovation and Technology Commission of Hong Kong
- **1** CRF grant as co-I of HK5, 937,000, Research Grants Council of Hong Kong
- **1** UGC central allocated equipment grant as Co-I of HK$3,250,000, University Grants Council of Hong Kong
- **4** Large and Small grants as PI, Australian Research Council

Publication Summary (Please see Appendix II for details)

- **1** research monograph, **1** edited book
- **8** invited book chapters, **12** invited journal papers
- **235** international journal papers including **99** in *IEEE Transactions*

Awards

- **Changjiang Chair Professor,** awarded by Ministry of Education, China, 2009
- **IEEE Fellow** since January 2009
- The Chapter of the Year Award, *IEEE Robotics and Automation Society*, 2008
- **The 2007 IEEE Transaction on Fuzzy Systems Outstanding Paper Award** (for a 2005 paper)
- Outstanding Reviewer, *Automatica*, 2005
- Finalist Certificate of the Best Paper Award, *the 8th International Conference on Control, Automation, Robotics and Vision*, 2004
- Best Paper Award, *IEEE International Conference on Neural Networks and Signal Processing*, 2003
- Alexander von Humboldt Fellowship, 1997
- Best Theoretical Paper Award, *the 2nd World Congress on Intelligent Automation and Intelligent Control*, 1997

Research Interests

- Intelligent systems and control
- Hybrid systems and control
- Multi-agent systems and control
- Networked systems and control
- Nonlinear systems and control

Invited Plenary Talks and Tutorial Workshops

- Distinguished Lecture, *the 24th Chinese Control and Decision Conference*, Taiyuan, May 2012
- Plenary talk, the 10th *Brazilian Symposium on Intelligent Automation*, São João Del Rei, Brazil, Sept. 2011
- Plenary talk, *IEEE Symposium on Computational Intelligence in Control and Automation*, 2011
- Keynote talk, *International Conference on Electrical Engineering and Automatic Control*, 2010
- Keynote talk, *the 1st International Conference on Computing, Control and Industrial Engineering*, 2010
- Keynote talk, the *2nd International Conference on Computer Engineering and Applications*, 2010
- Panel member, Plenary Panel Session: Visions from Leading Experts in Control and Automation, *the 8th IEEE International Conference on Control and Automation*, 2010
- Keynote talk, *International Conference on Intelligent Human-Machine Systems and Cybernetics*, 2009
- Keynote talk, *the 2nd IEEE International Conference on Computer Science and Information Technology*, 2009
- Keynote talk, *International Symposium on Intelligent Information Technology Application*, 2008
- Plenary talk, *International Symposium on Computational Intelligence and Design*, 2008
- Plenary talk, *the 26th Annunal Conference on Automation, Central and Southern China Automation Society*, 2008
- Panel member, Panel Discussion: Integration of Information Technology and Automation, *IEEE International Conference on Information and Automation*, 2008
- Tutorial Workshop, the 16th *IEEE International Conference on Fuzzy Systems,* 2007
- Panel member, Panel Discussion: Fuzzy Logic Control Future, Challenges and New Directions, the 16th *IEEE International Conference on Fuzzy Systems,* 2007
- Tutorial Workshop, *the 6th World Congress on Intelligent Control and Automation,* 2006
- Plenary talk, the 20th *Chinese Youth Automation Conference*, 2004
- Plenary talk*, Workshop of Hong Kong – Mainland Experts in Control Science and Technology*, 2003
- Semi-plenary talk on fuzzy control, the 11th *IEEE International Conference on Fuzzy Systems*, 2002

Professional Services:

- Associate Editor, *IEEE Trans. Automatic Control*, 2007-2009
- Associate Editor, *IEEE Trans. Fuzzy Systems*, 1999-
- Associate Editor, *IEEE Trans. Systems, Man, & Cybernetics, Part C*, 2004-2006
- Associate Editor, *Mechatronics*, 2009-2010
- Associate Editor, *Journal of Systems Science and Complexity*, 2014-
- Associate Editor, *Journal of Control Theory and Applications*, 2003-2009

- Associate Editor, *Conference Editorial Board of Control System Society of IEEE*, 1994-1999
- Invited member, Grant Panel of *National Natural Science Foundation of China*, 2003, 2005
- Member, *Technical Committee on Intelligent Control*, IEEE Control Systems Society, 2005-2010
- Member, *Technical Committee on Fuzzy Systems*, IEEE Computational Intelligence Society, 2006-2010
- Member, *Technical Committee on Intelligent Systems Appl.*, IEEE Computational Intelligence Society, 2007-2010
- Member, *Technical Committee on Soft Computing*, IEEE Systems, Man & Cybernetics Society, 2007-2010
- Member, *Technical Committee on Cognition and Control*, Internatinal Fedration of Automatic Control, 2007-2009
- Member, *Technical Committee on Control Theory*, Chinese Automation Society, 2005-2018
- Member, *Guan Zhao-zhi Award Evaluation Committee*, Chinese Automation Society, 2003-2018
- Chairman/Vice Chairman/Secretary/Treasurer, IEEE Robotics/Control Systems Chapter, Hong Kong, 2004-2010
- General Chair, *the 3rd IEEE International Conference on Cyber Technology on Automation, Control and Intelligent Systems*, 2013
- Publicity Co-Chair, *IEEE International Conference on Information and Automation*, 2013
- Regional Chair, *the 10th IEEE International Conference on Control and Automation*, 2013
- Award Committee Chair, the *12th International Conference on Control, Automation, Robotics and Vision*, 2012
- Publicity Chair, *IEEE International Conference on Fuzzy Systems*, 2011
- Chair of International Advisory Board, *the 1st International Conference on computing, control and Industrial Engineering*, 2010
- Honorary Chair, *2011 International Symposium on Computational Intelligence and Design*, 2011
- Honorary Chair, *the 3rd IEEE International Conference on Advanced Computer Control*, 2011, 2010
- Honorary Chair, *International Conference on Information Systems and Computational Intelligence*, 2011
- Honorary Chair, *the 3rd IEEE International Conference on Computer Science and Information Technology*, 2010
- Program Chair, the 7th *Asian Control Conference*, 2009
- Program Chair, the 17th *IEEE International Conference on Fuzzy Systems*, 2008
- Program Chair, *the 6th International Conference on Control and Automation*, 2007
- Co-Program Chair, *IEEE International Conference on Mechatronics and Machine Vision in Practice,* 2001
- Co-Chair, Panel Sessions, *the 9th World Congress on Intelligent Control and Automation*, 2012
- Co-Chair, Tutorial/Workshop, *the 8th World Congress on Intelligent Control and Automation*, 2010
- Co-Chair, Tutorial Sessions, *the 48th IEEE Conference on Decision and Control* (*CDC*), 2009
- Co-Chair, Award Committee, *the 7th World Congress on Intelligent Control and Automation*, 2008
- Co-Chair, Award Committee, *IEEE International Conference on Information and Automation*, 2008
- Vice Program Chair, Invited Session, *IEEE International Symposium on Intelligent Control*, 2007
- Chair, Organising Committee/Invited Sessions/Award Committee/Finance/Local Arrangment, **10** international conferences
- Member of Program Committee of **50** international conferences
- Organiser and chair of **30** invited sessions in international conferences
- Chair of **2** plenary sessions and **25** regular sessions in international conferences
- Invited to present lecture/seminar at **30** universities worldwide
- Reviewer of **16** top international journals including **8** *IEEE Transactions* and *Mathematical Reviews*
- Assessor of grants applications for Australia Research Council, Singapore National Technology Board, and Hong Kong Research Grants Council, National Natural Science Foundation of China
- Examiner of numerous Ph.D. and Master theses from Australia, Singapore, and Hong Kong

Appendix I: Details of Grants

External Grants:

No.	Title of project	Source	PI /Co-I	Duration	Amount of funding
1	Cooperative control of heterogeneous networked dynamic systems with application in coordination of networked mobile robots	GRF[@] RGC HK	PI	2015-2017	HK$875,000
2	Intelligent control of general nonlinear systems via T-S fuzzy models	GRF RGC HK	PI	2013-2015	HK$700,000
3	Analysis and synthesis of networked control systems with various network-induced constraints	GRF RGC HK	PI	2012-2014	HK$922,500
4	Analysis and synthesis of networked multi-agent systems	GRF RGC HK	PI	2010-2012	HK$519,840
5	Analysis and synthesis of switched nonlinear Hamiltonian control systems	GRF RGC HK	PI	2009-2011	HK$709,328
6	Analysis and control of switched systems	GRF RGC HK	PI	2008-2010	HK$884,520
7	Control of a class of complex nonlinear systems via a model based fuzzy approach	GRF RGC HK	PI	2007-2009	HK$634,000
8	Analysis and control design of a class of nonlinear systems with time delay	GRF RGC HK	PI	2006-2008	HK$538,836
9	Output regulation of piecewise linear systems	GRF RGC HK	PI	2005-2007	HK$506,447
10	Learning and limitations in approximation-based adaptive control	GRF RGC HK	PI	2004-2006	HK$506,447
11	Development of filtering design approaches to piecewise linear systems with application to fault diagnosis	GRF RGC HK	PI	2003-2005	HK$377,149
12	Development of controller design and analysis approaches to piecewise linear systems using piecewise Lyapunov functions	GRF RGC HK	PI	2002-2004	HK$413,404
13	Development of cell manipulation tools for probing functional mechanism of hematopoietic cells: robotics, optical tweezers, and hematopoiesis	CRF RGC	Co-I	2014-2016	HK$5,937,000
14	Advanced micro robotics in robot network and bio-manipulation (equipment grant)	UGC Central-Allocated	Co-I	2008-2011	HK$3,250,000
15	Development of automatic biological cell manipulation system	ITF[#] ITC HK	Co-I	2008-2009	HK1,000,000
16	Multi-axis FPGA based motion control IC chip design	ITF ITC HK	Co-I	2006-2007	HK$974,822
17	Toward high-precision Equipment: Development of a high-performance 5-axis CNC machine	ITF ITC HK	Co-I	2005-2007	HK$4,800,000
18	Application study and new development of DynaCity series motor control and driving products	ITF (SERAP) ITC HK	Co-I	2003-2005	HK$2,425,000
19	Systematic analysis and design of fuzzy control systems	Large Grant[*] ARC Australia	PI	1999-2001	A$151,223
20	Control of complex nonlinear systems	Small Grant ARC Australia	PI	1997	A$15,000
21	Global adaptive control of nonlinear systems	Small Grant ARC Australia	PI	1996	A$14,000
22	Robust adaptive control systems	Small Grant ARC Australia	PI	1994-1995	A$29,000

[@]: General Research Fund (GRF), Research Grants Council (RGC), Hong Kong
[#]: Innovation and Technology Fund (ITF), Innovation and Technology Commission (ITC), Hong Kong
[&]: National Natural Science Foundation (NSF), China
[*]: Large Grant (small grant), Australian Research Council (ARC), Australia

Internal Grants:

No.	Title of project	Source	PI /Co-I	Duration	Amount of funding
1	Preliminary Study on Modeling and Control of Micro-DMFC Power Systems	SRG[%] CityU	PI	2010-2012	HK$180,000
2	Stability Analysis and Controller Design for Impulsive Switching Systems with Time Delay	SRG CityU	PI	2009-2011	HK$166,148
3	Model predictive controller design of fuzzy dynamic systems	SRG CityU	PI	2006-2008	HK$180,000
4	Piecewise filtering design of fuzzy dynamic systems	SRG CityU	PI	2005-2007	HK$180,000
5	Stabilization of a class of nonlinear systems via fuzzy control approach	SRG CityU	PI	2003-2005	HK$153,430
6	Development of controller design approaches of fuzzy systems based on piecewise Lyapunov functions	SRG CityU	PI	2002-2004	HK$237,500
7	Intelligent control systems with application to robot control	SRG CityU	PI	2001-2003	HK$250,000
8	Development of adaptive control approaches to a class of nonlinear systems	SRG CityU	PI	2001-2003	HK$250,000
9	Adaptive control of nonlinear systems - preliminary study	DAG CityU	PI	2000-2001	HK$100,000
10	Micro manipulation of biological cells with automatic robot systems	CityU	Co-I	2008-2010	HK$3,000,000
11	Development of modular motion control/drive systems for permanent magnet AC motors in SMT applications	ARG CityU	Co-I	2003-2005	HK$500,000
12	Intelligent systems for signal processing and control	FSE CityU	PI	2002-2004	HK$700,000
	Grand Total				HK$**5,550,930**

[%]: Strategic Research Grants (SRG), City University of Hong Kong

Appendix II: Publication List

Research Monograph:

G. Feng, *Analysis and Synthesis of Fuzzy Control Systems: A Model Based Approach*, CRC Press and Taylor & Francis, March 2010.

Edited Book:

G. Feng and R. Lozano, *Adaptive Control Systems*, Butterworth-Heinemann, Oxford, UK, 1999.

Book Chapters:

[1] Jianbin Qiu, Gang Feng, and Jie Yang (**invited**), "Approaches to robust *H1* controller synthesis of nonlinear discrete-time-delay systems via T-S fuzzy models", *Recent Advances in Intelligent Control Systems*, pp.21-49, edited by W. Yu, Springer, 2009.

[2] H. Huang and G. Feng (**invited**), "Robust synchronization of chaotic systems based on time-delayed feedback control", *Chaos control for circuits and systems: A practical approach*, pp.3-34, edited by W.K. Ling, World Scientific, Singapore, 2008.

[3] G. Feng and T.J. Zhang (**invited**), "Non-synchronized output feedback controller design of piecewise linear systems", *Nonlinear Control Systems with Discontinuity: Theory and Practice*, pp.49-64, edited by T.L. Shen, Y.Z. Sun, Y. Yao, and Y. Mutou, Springer, 2007.

[4] G. Feng, D. Sun and Louis Wang (**invited**), "Constructive Design of Discrete Time Fuzzy Controller Based on Piecewise Lyapunov Functions", in *Computational Intelligence: The Experts Speak*, pp.165-178, edited by D. Fogel and C.J. Robinson, IEEE and John Wiley & Sons, 2003.

[5] G. Feng (**invited**), "Robust Adaptive Control of Input Rate Constrained Discrete Time Systems", in *Adaptive Control of Nonsmooth Dynamic Systems*, pp.333-348, edited by G. Tao and F. Lewis, Springer-Verlag, London, 2001.

[6] G. Feng, Y.A. Jiang, and R. Zmood (**invited**), "An Algorithm for Robust Adaptive Control with Less Prior Knowledge", in *Adaptive Control Systems*, pp.22-40, edited by G. Feng and R. Lozano, Oxford, Butterworth-Heinemann, 1999.

[7] C.K. Chak, G. Feng, and M. Palaniswami (**invited**), "Implementation of Fuzzy Systems within the Framework of Neural Networks", in *Neural Network Systems Techniques and Applications*, pp.57-122, edited by C.T. Leondes, Academic Press, San Diego, CA, 1998.

[8] S.G. Cao, N.W. Rees, and G. Feng (**invited**), "Quadratic Stability of Continuous-Time Fuzzy Control Systems", in *Advances in Fuzzy Control*, pp.33-66, edited by D. Driankov and R. Palm, Physica-Verlag, Heidelberg, 1998.

International Journal Papers:

IEEE Transactions:

[1] H. Zhang, G. Feng, H.C. Yan, and Q.J. Chen, "Observer-based Output Feedback Event-triggered Control for Consensus of Multi-agent Systems", *IEEE Trans. Industrial Elecetronics*, vol.61, no.9, pp. 4885-4894, Sept. 2014.

[2] J.H. Zhang, G. Feng, and Y.Q. Xia, "Design of Estimator-Based Sliding Mode Output Feedback Controllers for Discrete-Time Systems", *IEEE Trans. Industrial Elecetronics*, vol.61, no.5, pp.2432-2440, May 2014.

[3] Q. Gao, L. Liu, G. Feng, Y. Wang, and J.B. Qiu, "Universal Fuzzy Integral Sliding-Mode Controllers Based on T-S Fuzzy Models", *IEEE Trans. Fuzzy Systems*, vol.22, no.2, pp.350-362, April 2014.

[4] Q. Gao, G. Feng, Z.Y. Xi, Y. Wang, and J.B. Qiu, "Robust H-infinity Control of T-S Fuzzy Time-Delay Systems via A New Sliding Mode Control Scheme", *IEEE Trans. Fuzzy Systems*, vol.22, no.2, pp.459-465, April 2014.

[5] Q. Ma, G. Feng, and S.Y. Xu, "Delay-Dependent Stability Criteria for Reaction-Diffusion Neural Networks With Time-Varying Delays", *IEEE Trans. Cybernetics,* vol.43, no.6, pp.1913-1920, Dec. 2013.

[6] C.Z. Zhang, G. Feng, J.B. Qiu, and Y.Y. Shen, "Control Synthesis for a Class of Linear Network-based Systems With Communication Constraints", *IEEE Trans. Industrial Elecetronics*, vol.60, no.8, pp. 3339-3348, Aug. 2013.

[7] Q. Gao, G. Feng, Y. Wang, and J.B. Qiu, "Universal Fuzzy Models and Universal Fuzzy Controllers for Stochastic Non-affine Nonlinear Systems", *IEEE Trans. Fuzzy Systems*, vol.21, no.2, pp.328-341, April 2013.

[8] J.B. Qiu, G. Feng, and H.J. Gao, "Static output feedback H-infinity control of continuous-time T-S fuzzy affine systems via piecewise Lyapunov functions", *IEEE Trans. Fuzzy Systems*, vol.21, no.2, pp.245-261, April 2013.

[9] Z.H. Guan, C.Y. Chen, G. Feng, and T. Li, "Optimal Tracking Performance Limitation of Networked Control Systems with Limited Bandwidth and Additive Colored White Gaussian Noise", *IEEE Trans. Circuits and Systems, I,* vol.60, no.1, pp.189-198, Jan. 2013.

[10] J.B. Qiu, G. Feng, and H.J. Gao, "Observer based piecewise affine output feedback controller synthesis of continuous-time T-S fuzzy affine dynamic systems using quantized measurements", *IEEE Trans. Fuzzy Systems*, vol.20, pp.1046-1062, Dec. 2012.

[11] Z.W. Liu, Z.H. Guan, S. Shen, and G. Feng, "Consensus of multi-agent systems with aperiodic sampled communication via impulsive algorithms using position-only measurements", *IEEE Trans. Automatic Control*, vol.57, no.10, pp.2639-2643, Oct. 2012.

[12] S.Y. Xu, G. Feng, Y. Zou, and J. Huang, "Robust Controller Design of Uncertain Discrete Time-Delay Systems with Input Saturation and Disturbances", *IEEE Trans. Automatic Control*, vol.57, no.10, pp.2604-2609, Oct. 2012.

[13] H. Huang, G. Feng, and X.P. Chen, "Stability and Stabilization of Markovian Jump Systems with Time Delay via New Lyapunov Functionals", *IEEE Trans. Circuits and Systems, I,* vol.59, no.10, pp.2413-2421, Oct. 2012.

[14] Q. Gao, X.J. Zeng, G. Feng, Y. Wang, and J.B. Qiu, "T-S Fuzzy Model Based Approximation and Controller Design for General Nonlinear Systems", *IEEE Trans. Systems, Man, and Cybernetics, B*, vol.42, no.4, pp.1143-1154, Aug. 2012.

[15] Y.Y. Shen, G. Feng, B. Yang, and X.P. Guan, "Fair Resource Allocation and Admission Control in Wireless Multi-User Relay Networks", *IEEE Trans. Vehicular Technology*, vol.61, no.3, pp.1383-1397, March 2012.

[16] Z.H. Guan, Y.H. Wu, and G. Feng, "Consensus analysis based on impulsive systems in multi-agent networks", *IEEE Trans. Circuits and Systems, I*, vol.59, no.1, pp.170-178, Jan. 2012.

[17] J.B. Qiu, G. Feng, and H.J. Gao, "Asynchronous Output Feedback Control of Networked Nonlinear Systems with Multiple Packet Dropouts: T-S Fuzzy Affine Model Based Approach", *IEEE Trans. Fuzzy Systems*, vol.19, no.6, pp.1014-1030, Dec. 2011.

[18] Z.Y. Xi, G. Feng, and T. Hesketh, "Piecewise Sliding Mode Control for T-S Fuzzy Models", *IEEE Trans. Fuzzy Systems*, vol.19, no.4, pp.707-716, Aug. 2011.

[19] S.C. Tong, Y. Li, G. Feng, and T.S. Li, "Observer-Based Adaptive Fuzzy Backstepping Dynamic Surface Control for a Class of MIMO Nonlinear Systems", *IEEE Trans. Systems, Man, and Cybernetics, Part B*, vol.41, no.4, pp1124-1135, Aug. 2011.

[20] C.Z. Zhang, G. Feng, H.J. Gao, and J.B. Qiu, "H_∞ Filtering For Nonlinear Discrete-Time Systems Subject to Quantization and Packet Dropouts", *IEEE Trans. Fuzzy Systems*, vol.19, no.2, pp.353-365, April 2011.

[21] J.B. Qiu, G. Feng, and H.J. Gao, "Non-synchronized State Estimation of Multi-channel Networked Nonlinear Systems with Multiple Packet Dropouts via T-S Fuzzy Affine Dynamic Models", *IEEE Trans. Fuzzy Systems*, vol.19, no.1, pp.75-90, Feb. 2011.

[22] Z.Y. Xi, G. Feng, and T. Hesketh, "Piecewise Integral Sliding Mode Control for T-S Fuzzy Systems", *IEEE Trans. Fuzzy Systems*, vol.19, no.1, pp.65-74, Feb. 2011.

[23] C.D. Li, S.C. Wu, X.F. Liao, and G. Feng, "Stabilizing effects of impulses in discrete-time delayed neural networks", *IEEE Trans. Neural networks*, vol.22, no.2, pp.323-329, Feb. 2011.

[24] Y.H. Sun. G. Feng, and J.D. Cao, "A new approach to dynamic fuzzy modeling of genetic regulatory networks", *IEEE Trans. NanoBioScience*, vol.9, no.4, pp. 263-272, Dec. 2010.

[25] J.B. Qiu, G. Feng, and H.J. Gao, "Fuzzy-Model-Based Piecewise H-infinity Static Output Feedback Controller Design for Networked Nonlinear Systems", ", *IEEE Trans. Fuzzy Systems*, vol. 18, no.5, pp.919-934, Oct. 2010.

[26] Z.H. Guan, Z.W. Liu, G. Feng, and Y.W. Wang, "Synchronization of complex dynamical networks with time varying delays via impulsive distributed control", *IEEE Trans. Circuits and Systems I*, vol.57, no.8, pp.2182-2195, Aug. 2010.

[27] T.S. Li, D. Wang, G. Feng, and S.C. Tong, "A DSC approach to robust adaptive NN tracking control for strict-feedback nonlinear systems", *IEEE Trans. Systems, Man and Cybernetics, B*, vol.40, no.3, pp.915-927, June 2010.

[28] T.S. Li, S.C. Tong, and G. Feng, "A novel robust adaptive fuzzy tracking control for a class of nonlinear MIMO systems", *IEEE Trans. Fuzzy Systems*, vol.18, no.1, pp.150-160, Feb. 2010.

[29] H. Huang and G. Feng, "A scaling parameter approach to delay-dependent state estimation of delayed neural networks", *IEEE Trans. Circuits and Systems, II*, vol.57, no.1, pp.36-40, 2010.

[30] D. Sun, C. Wang, W. Shang, and G. Feng, "A Synchronization Approach to Trajectory Tracking of Multiple Mobile Robots While Maintaining Time-Varying Formations", *IEEE Trans. Robotics*, vol.25, no.5, pp.1074-1086, Oct. 2009.

[31] J.B. Qiu, G. Feng, and J.Yang, "A New Design of Delay-Dependent Robust H_infinity Filtering for Discrete-Time T-S Fuzzy Systems with Time-Varying Delay", *IEEE Trans. Fuzzy Systems*, vol.17, no.5, pp.1044-1058, Oct. 2009.

[32] B. Yang, G. Feng, Y.Y. Shen, C.N. Long, and X.P. Guan, "Channel Aware Access for Cognitive Radio Networks," *IEEE Transactions on Vehicular Technology*, vol.58, no.7, pp.3726-3737, Sept. 2009.

[33] M. Chen, G. Feng, H.Ma, and G. Chen, "Delay-Dependent H-infinity Filter Design for Discrete-Time Fuzzy Systems with Time-Varying Delays", *IEEE Trans. Fuzzy Systems*, vol.17, no.3, pp.604-616, June 2009.

[34] H. Huang and G. Feng, "Delay-Dependent H_infinity and Generalized H_2 Filtering for Delayed Neural Networks", *IEEE Trans. Circuits and Systems, I*, vol.56, no.4, pp.846-857, April 2009.

[35] T.J. Zhang and G. Feng, "Rapid Load Following of A SOFC Power System via Stable Fuzzy Predictive Tracking Controller", *IEEE Trans. Fuzzy Systems*, vol.17, no.2, pp.357-371, April 2009.

[36] T.J. Zhang, G. Feng, H.P. Liu, and J.H. Lu, "Piecewise Fuzzy Anti-Windup Dynamic Output Feedback Control of Nonlinear Processes with Amplitude and Rate Actuator Saturation", *IEEE Trans. Fuzzy Systems*, vol.17, no.2, pp.253-264, April 2009.

[37] Y. Zhang, J.T. Sun, and G. Feng, "Impulsive Control of Discrete Systems with Time Delay", *IEEE Trans. Automatic Control*, vol.54, no.4, pp830-834, April 2009.

[38] F.W. Yang, Z.D Wang, G. Feng, and X.H. Liu, "Robust Filtering with Randomly Varying Sensor Delay: The Finite-Horizon Case", *IEEE Trans. Circuits and Systems, I*, vol.56, no.3, pp.664-672, March 2009.

[39] G.L. Wei, G. Feng, and Z.D. Wang, "Robust H_infinity Control for Discrete-Time Fuzzy Systems with Infinite Distributed Delays", *IEEE Trans. Fuzzy Systems*, vol.17, no.1, pp.224-232, Feb. 2009.

[40] C.D. Li, Y.Y. Shen, and G. Feng, "Stabilizing effects of impulses in delayed BAM neural networks", *IEEE Trans. Circuits and Systems, II*, vol.55, no.12, pp.1284-1288, Dec. 2008.

[41] C.D. Li, G. Feng, and T.W. Huang, "On hybrid impulsive and switching neural networks", *IEEE Trans. Systems, Man and Cybernetics, Part B*, vol.38, no.6, pp.1549-1560, Dec. 2008.

[42] H.B. Zhang and G. Feng, "Stability analysis and H-infinity controller design of of discrete time fuzzy large scale systems based on piecewise Lyapunov functions", *IEEE Trans. Systems, Man and Cybernetics, Part B*, vol.38, no.5, pp.1390-1401, Oct. 2008.

[43] T.J. Zhang, G. Feng, J.H. Lu, and W.G. Xiang, "Robust Constrained Fuzzy Affine Model Predictive Control with Application to a Simulated Fluidized Bed Combustion Plant", *IEEE Trans. Control Systems Technology*, vol.16, no.5, pp.1047-1056, Sept. 2008.

[44] M. Chen and G. Feng, "Delay-Dependent H-infinity Filtering of Piecewise Linear Systems with Constant or Time-Varying Delays", *IEEE Trans. Circuits and Systems, I*, vol.55, no.7, pp.2087-2096, Aug. 2008.

[45] Y.S. Xia, G. Feng, and J. Wang, "A Novel Recurrent Neural Network for Solving Nonlinear Optimization Problems with Inequality Constraints", *IEEE Trans. Neural Networks*, vol.19, no.8, pp.1340-1353, Aug. 2008.

[46] H. Huang, G. Feng, and J.D. Cao, "Robust State Estimation for Uncertain Neural Networks With Time-Varying Delay", *IEEE Trans. Neural Networks*, vol.19, no.8, pp.1329-1339, Aug. 2008.

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[48] G. Feng, M. Chen, D. Sun, and T.J. Zhang, "Approaches to Robust Filtering Design of Discrete Time Fuzzy Dynamic Systems", *IEEE Trans. Fuzzy Systems*, vol.16, no.2, pp.331-340, April, 2008.

[49] J.B. Qiu, G. Feng, and J. Yang, "Improved Delay-Dependent H_infinity Filtering Design for Discrete-Time Polytopic Linear Delay Systems", *IEEE Trans. Circuits and Systems, II*, vol.55, no.2, pp.178-182, Feb. 2008.

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