

Publications

Journal Papers in 2008

1. A Tay, TW Ng, YH Wang and S Zhao, "Direct Measurement of Beam Size in a Spectroscopic Ellipsometry Setup", *Review of Scientific Instruments*, Vol. 79, No. 6, pp. 063101 (1-4), June 2008.
2. KK Tan, A Tay, KC Ong, CY Leong, "Mobile Real-time Feedback system for Education", *International Journal of Engineering Education*, Vol. 24, No. 1, pp. 62-73, January 2008.
3. KK Tan, CS Teo and S Y Lim, "Dynamic geometric compensation for gantry stage using iterative learning control", *IEEE Transactions on Instrumentation and measurement*, Vol. 57, No. 2, pp. 413-419, February 2008.
4. S Huang, KK Tan and TH Lee, "Adaptive neural network algorithm for control design of rigid-link", *Neurocomputing*, Vol.71, No.1, pp. 885-894, January 2008.
5. S Huang and KK Tan, "Fault detection, isolation and accommodation control in robotic systems", *IEEE Transactions on Automation Science and Engineering*, Vol. 5, No. 3, pp. 480-489, July 2008.
6. AS Putra, S Huang, KK Tan, SK Panda and TH Lee, "Self-sensing actuation with adaptive control in applications with switching trajectory", *IEEE-ASME Transaction on Mechatronics*, Vol.13, No. 1, pp. 104-111, February 2008.
7. WK Ho, A Tay, J Fu, M Chen and Y Feng, "Critical Dimension and Real-time Temperature Control for Warped Wafers", *Journal of Process Control*, Vol. 18, No. 9, pp. 809-914, October 2008.
8. YZ Wang, and SS Ge, "Augmented Hamiltonian Formulation and Energy-based Control Design of Uncertain Mechanical Systems", *IEEE Transactions on Control System Technology*, Vol 16, No. 2, pp. 202-21, March 2008.
9. Zhang, Tian-Ping, and SS Ge, "Adaptive dynamic surface control of nonlinear systems with unknown dead zone in pure feedback form", *Automatica*, Vol. 44, No. 7, pp. 1895-1903, July 2008.
10. KP TEE, SS Ge and EH Tay, "Adaptive Neural Network Control for Helicopters in Vertical Flight", *IEEE Transactions on Control Systems Technology*, Vol. 16, No. 4, pp. 753-762, July 2008.
11. Z Li, SS Ge, M Adams and WS Wijesoma, "Robust Adaptive Control of Uncertain Force/Motion Constrained Nonholonomic Mobile Manipulators", *Automatica*, Vol. 44, No. 3, pp. 776-784, June 2008.
12. Y Kang, JF Zhang and SS Ge, "Robust Output Feedback H-infinity Control of Uncertain Markovian Jump Systems with Mode-dependent Time-

- delays", *International Journal of Control*, Vol. 81, No. 1, pp. 41-61, January 2008.
13. G Cai, BM Chen, K Peng, TH Lee and M Dong, "Comprehensive modeling and control of the yaw channel of a UAV helicopter", *IEEE Transactions on Industrial Electronics*, Vol. 55, No. 9, pp. 3426-3434, September 2008.
 14. G Cai, F Lin, BM Chen and TH Lee, Systematic design methodology and construction of UAV helicopters, *Mechatronics*, Vol. 18, No. 10, pp. 545-558, December 2008.
 15. CK Thum, C Du, J Zhang, KP Tan, BM Chen and EH Ong, "Servo control design for a high TPI servo track writer with microactuators", *IEEE Transactions on Magnetics*, Vol. 44, No. 9, pp. 2227-2234, September 2008.
 16. W Lan, BM Chen and FL Lewis, "Explicit constructions of global stabilization and nonlinear H_{∞} control laws for a class of nonminimum phase nonlinear multivariable systems", *International Journal of Robust and Nonlinear Control*, Vol. 18, No. 12, pp. 1257-1284, August 2008.
 17. J Gadewadikar, FL Lewis, K Subbarao and BM Chen, "Structured H_{∞} command and control loop design for unmanned helicopters", *AIAA Journal of Guidance, Control and Dynamics*, Vol. 31, No. 4, pp. 1093-1102, July-August 2008.
 18. W Lan and BM Chen, "Explicit constructions of global stabilization and nonlinear H_{∞} control laws for a class of nonminimum phase nonlinear systems", *Automatica*, Vol. 44, No. 3, pp. 738-744, March 2008.
 19. BM Chen, X Liu and Z Lin, "Interconnection of Kronecker canonical form and special coordinate basis of multivariable linear systems", *Systems & Control Letters*, Vol. 57, No. 1, pp. 28-33, January 2008.
 20. JH Ang, KC Tan and AA Mamun, "Training neural networks for classification using growth probability-based evolution", *Neurocomputing*, Vol. 71, No. 16-18, pp. 3493-3508, October 2008.
 21. CK Goh, EJ Teoh and KC Tan, "Hybrid multiobjective evolutionary design for artificial neural networks", *IEEE Transactions on Neural Networks*, Vol. 19, No. 9, pp. 1531-1548, September 2008.
 22. JH Ang, SU Guan, KC Tan and AA Mamun, "Interference-less neural network training", *Neurocomputing*, Vol. 71, No. 16-18, pp. 3509-3524, October 2008.
 23. DS Liu, KC Tan, SY Huang, CK Goh and WK Ho, "On solving multiobjective bin packing problems using evolutionary particle swarm optimization", *European Journal of Operational Research*, Vol. 190, No. 2, pp. 357-382, October 2008.
 24. EJ Teoh, KC Tan, HJ Tang, C Xiang and CK Goh, "An asynchronous recurrent linear threshold network approach to solving the traveling

- salesman problem", *Neurocomputing*, Vol. 71, No. 7-9, pp. 1359-1372, March 2008,
25. A Al Mamun, KC Tan and WE Wong, "Iterative feedback tuning (IFT) of head positioning servomechanism in hard disk drive", *International Journal on Smart Sensing and Intelligent Systems*, Vol. 1, No. 1, pp. 269-284, September 2008.
 26. KC Tan, CK Goh, A Al Mamun and EZ Ei, "An evolutionary artificial immune system for multi-objective optimization", *European Journal of Operational Research*, Vol. 187, No. 2, pp. 371-392, June 2008.
 27. X WU, SK Panda and JX Xu, "DC Link Voltage and Supply-Side Current Harmonics Minimization of Three Phase PWM Boost Rectifiers using Frequency Domain based Repetitive Current Controllers", *IEEE Transactions on Power Electronics*, Vol. 23, No. 4, pp. 1987-1997, June 2008.
 28. X WU, SK Panda and JX Xu, "Analysis of the Instantaneous Power Flow for Three-phase PWM Boost Rectifier under Unbalanced Supply Voltage Conditions", *IEEE Transactions on Power Electronics*, Vol. 3, No. 4, pp. 1679 – 1691, July 2008.
 29. JX Xu and W Wang, "A General internal model approach for motion learning", *IEEE Transactions on Systems, Man, and Cybernetics*, Vol. 38, No. 2, pp. 477-487, April 2008.
 30. JX Xu, DQ Huang and S. Pindi, "Optimal tuning of PID parameters using iterative learning approach", *SICE Journal of Control, Measurement, and System Integration*, Vol. 2, No. 2, pp. 143-154, February 2008.
 31. JX Xu and K Abidi, "A discrete-time periodic adaptive control approach for time-varying parameters with known periodicity", *IEEE Transactions on Automatic Control*, Vol. 53, No. 2, pp. 575-581, March 2008.
 32. ZS Hou, JX Xu and JW Yan, "An iterative learning approach for density control of freeway traffic flow via ramp metering", *Transportation Research Part C-Emerging Technologies*, Vol. 15, No. 1, pp. 71-79, February 2008.
 33. Z Ye, QG Wang and CC Hang, "Frequency Domain Approach to Computing Loop Phase Margins of Multivariable Systems", *Industrial & Engineering Chemistry Research*, Vol. 47, No. 13, pp. 4418-4424, March 2008.
 34. QG Wang, M LIU and CC Hang, "Integral Identification of Continuous-Time Delay Systems in Presence of Unknown Initial Conditions and Disturbances from Step Tests", *Industrial & Engineering Chemistry Research*, Vol. 47, No. 14, pp. 4929-4936, July 2008.
 35. QG Wang, Y He, Z YE, C Lin and CC Hang, "On Loop Phase Margins of Multivariable Control Systems", *Journal of Process Control*, Vol. 18, No. 2, pp. 202-211, February 2008.
 36. CC HUA, QG Wang, P Shi and XP Guan, "Memoryless Adaptive Controller Design for Uncertain Polynomial Systems with Multiple Time Delays",

Journal of Dynamic Systems Measurement and Control-Transactions of the ASME, Vol. 130, No. 4, pp. 44504 (1-7), July 2008.

37. C Lin, QG Wang and TH Lee, "H-infinity filter design for nonlinear systems with time-delay through T-S fuzzy model approach", *IEEE Transactions on Fuzzy Systems*, Vol. 16, No. 3, pp. 736-746, June 2008.
38. C Lin, QG Wang, TH Lee, Y He and B Chen, "Observer-based H-infinity Fuzzy Control Design for T-S Fuzzy Systems with State Delays", *Automatica*, Vol. 44, No. 3, pp. 868-874, March 2008.
39. CC HUA, QG Wang and XP Guan, "Memoryless State Feedback Controller Design for Time Delay Systems with Matched Uncertain Nonlinearities", *IEEE Transactions on Automatic Control*, Vol. 53, No. 3, pp. 801-807, April 2008.
40. CC HUA and QG Wang, "Adaptive Backstepping Control for A Class of Time Delay Systems with Nonlinear Perturbations", *International Journal of Adaptive Control and Signal Processing*, Vol. 22, No. 3, pp. 289-305, May 2008.
41. C Lin, QG Wang, Y He, G Wen, Xu Han, Guangyao Li and Zhi-Hua Zhong, "On stabilizing PI controller ranges for multivariable systems", *Chaos Solitons & Fractals*, Vol. 35, No. 3, pp. 620-625, February 2008.
42. Z YE, QG Wang and CC Hang, "Relay Feedback Auto-tuning for a Class of Servo Control Systems", *International Journal of Process System Engineering*, Vol. 1, No. 1, pp. 620-625, 2008.
43. C Xiang, CY Png and SM Lim, "Design of Multiple-Level Hybrid Classifier for Intrusion Detection System using Bayesian Clustering and Decision Trees", *Pattern Recognition Letters*, Vol. 29, No. 7, pp. 918-924, May 2008.
44. KR Qin, C Xiang, Z Xu, LL Cao, SS Ge and ZL Jiang, "Dynamic Modeling for Shear Stress Induced ATP Release from Vascular Endothelial Cells," *Biomechanics and Modeling in Mechanobiology*, Vol. 7, No. 5, pp. 345-353, October 2008.
45. P XIAO, P Vadakkepat and TH Lee, "Context Dependant DNA Coding with Redundancy and Introns", *IEEE Transactions on Systems, Man and Cybernetics Part B - Cybernetics*, Vol. 38, No. 2, pp. 331-341, April 2008.
46. P Vadakkepat and G DIP, "Biped Locomotion: Stability, Analysis and Control", *International Journal on Smart Sensing and Intelligent Systems*, Vol. 1, No. 1 pp. 187-207, March 2008.
47. P Vadakkepat, Dip Goswami and Meng-Hwee Chia, "Disturbance Rejection by Online ZMP Compensation", *ROBOTICA*, Vol. 26, No. 1, pp. 9-17, January 2008.
48. P Vadakkepat, Peter Lim, Liyanage C De Silva, Liu Jing and Li Li Ling, "Multi-Modal Approach to Human Face Detection and Tracking", *IEEE Transactions on Industrial Electronics*, Vol. 55, No. 3, pp. 1385-1393, March 2008.

49. WW Tan, WW, FYR Li, AP Loh and WK Ho, "RTD response time estimation in the presence of temperature variations and its application to semiconductor manufacturing", *IEEE Transactions on Instrumentation and Measurement*, Vol. 57, No. 2, pp. 406-412, February 2008.
50. LC Shao, M Palaniapan and WW Tan, "The nonlinearity cancellation phenomenon in micromechanical resonators", *Journal of Micromechanics and Microengineering*, Vol. 18, No. 6, pp. 065014 (1-9), June 2008.
51. LC Shao, M Palaniapan, L Khine and WW Tan, "Nonlinearity in micromechanical free-free beam resonators: modeling and experimental verification", *Journal of Micromechanics and Microengineering*, Vol. 18, No. 2, pp.025017 (1-11) January 2008.
52. KF Fong, AP Loh and WW Tan, "A Frequency Domain Approach for Fault Detection", *International Journal of Control*, Vol. 81, No. 2, pp. 264-276, February 2008.
53. BB Edin, L Ascari, L Beccai, S Roccella, JJ Cabibihan, and MC Carrozza, "A bio-inspired approach for the design and characterization of a tactile sensory system for a cybernetic prosthetic hand," *Brain Research Bulletin*, Vol. 77, No. 5, pp. 221-236, November 2008.
54. CK Thum, C Du, BM Chen, EH Ong and KP Tan, Midfrequency runout compensation in hard disk drives via a time-varying group filtering scheme, *IEEE Transactions on Magnetics*, Vol. 44, No. 12, pp. 4769-4779, December 2008.
55. G Cai, F Lin, BM Chen and TH Lee, Systematic design methodology and construction of UAV helicopters, *Mechatronics*, Vol. 18, No. 10, pp. 545-558, December 2008.

Conference Papers in 2008

1. G Cai, AK Cai, BM Chen and TH Lee, "Construction, modeling and control of a mini autonomous UAV helicopter", *Proceedings of the 2008 IEEE International Conference on Automation and Logistics*, Qingdao, China, pp. 449-454, 1-3 September 2008.
2. B Yun, BM Chen, KY Lum and TH Lee, "A leader-follower formation flight control scheme for UAV helicopters", *Proceedings of the 2008 IEEE International Conference on Automation and Logistics*, Qingdao, China, pp. 39-44, 1-3 September 2008.
3. G Cai, BM Chen, TH Lee and M Dong, "Design and implementation of a hardware-in-the-loop simulation system for small-scale UAV helicopters", *Proceedings of the 2008 IEEE International Conference on Automation and Logistics*, Qingdao, China, pp. 29-34, 1-3 September 2008.
4. G Cai, BM Chen, TH Lee and KY Lum, "Comprehensive nonlinear modeling of an unmanned-aerial-vehicle helicopter", *Proceedings of the 2008 AIAA*

Guidance, Navigation and Control Conference, Honolulu, Hawaii, USA, AIAA2008-7414, 18-21 August 2008.

5. W Lan, BM Chen and FL Lewis, "Explicit construction of H_∞ control law for a class of nonminimum phase nonlinear multivariable systems", *Proceedings of the 7th World Congress on Intelligent Control and Automation*, Chongqing, China, pp. 341-346, 25-27 June 2008.
6. CK Thum, C Du, BM Chen, EH Ong and KP Tan, "Time-varying compensation for mid-frequency repeatable runout in hard disk drives via a linear feedback scheme", *Proceedings of the 17th IFAC World Congress*, Seoul, Korea, pp. 3104-3109, 6-11 July 2008.
7. CK Goh, YS Ong, and KC Tan, "An Investigation on Evolutionary Gradient Search for Multi-objective Optimization", *Proceeding of 2008 IEEE Congress on Evolutionary Computation*, Hong Kong, pp. 3742-3747, 1-6 June 2008.
8. CH Tan, JH Ang, KC Tan and A Tay, "Online Adaptive Controller for Simulated Car Racing", *Proceeding of 2008 IEEE Congress on Evolutionary Computation*, Hong Kong, pp. 2239-2245, 1-6 June 2008.
9. JH Ang, EJ Teoh, CH Tan, KC Goh and KC Tan, "Dimension Reduction using Evolutionary Support Vector Machines", *Proceeding of IEEE Congress on Evolutionary Computation*, Hong Kong, pp. 3635-3642, 1-6 June 2008.
10. L Xie, J Xu, KY Lum and AP Loh, "Two improved approaches to fault detection with unknown input", *Proceedings of the IFAC World Congress 2008*, Coex, Seoul, South Korea, 5-11 July 2008.
11. JX Xu and K Abidi, "Integral Sliding Mode Output Tracking Controller for Sampled-Data Systems", *Proceedings of 17th World Congress of IFAC 2008*, Coex, Seoul, South Korea, 5-11 July 2008.
12. JX Xu and K Abidi, "A discrete-time integral sliding mode control approach for output tracking with state estimation", *Proceedings of 17th World Congress of IFAC 2008*, Coex, Seoul, South Korea, 5-11 July 2008.
13. DQ Huang and JX Xu, "Spatial periodic adaptive control for rotary machine systems", *Proceedings of 17th World Congress of IFAC 2008*, Coex, Seoul, South Korea, IFAC, 5 - 11 July 2008.
14. Y Tan and JX Xu, "A note on iterative learning control for nonlinear systems with input uncertainties", *Proceedings of 17th World Congress of IFAC 2008*, Coex Convention Center, Seoul, South Korea, 5-11 July 2008.
15. JX Xu and ZS Hou, "Quasi-optimal variable structure control scheme based on control Lyapunov function", *Proceedings of 27th Chinese Control Conference 2008*, Kuming, China, 16-18 July 2008.
16. MW Nie, MW and WW Tan, "Towards an efficient type-reduction method for interval type-2 fuzzy logic systems", *IEEE International Conference on Fuzzy Systems 2008*, Hong Kong, pp. 1425-1432, 1-6 June 2008.

17. TW Chua and WW Tan, "EFSVM-FCM: Evolutionary Fuzzy Rule-Based Support Vector Machines Classifier with FCM Clustering", *IEEE International Conference on Fuzzy Systems 2008*, Hong Kong, 1 – 6 June 2008.
18. WK Ho, A Tay, J Fu, M Chen and Y Feng, "Critical dimension and real-time temperature control of warped wafers", *Proceedings of 17th IFAC World Congress 2008*, Coex, Seoul, South Korea, pp. 925-930, 6-11 July 2008.
19. Y Wang, HT Chua, A Tay and ZP Fang, "Temperature cycling for photoresist processing", *Proceedings of 17th IFAC World Congress 2008*, Coex, Seoul, South Korea, pp. 946-951, 6-11 July 2008.
20. H Lin and PJ Antsaklis, "Asymptotic disturbance attenuation properties for continuous-time uncertain switched linear systems", *Proceeding of the 17th IFAC World Congress on Automatic Control 2008*, Seoul, Korea, South Korea, 6-11 July 2008.
21. Z Ji, ZH Lin and TH Lee, "A perspective on reachability and controllability of controlled switched linear systems", *Proceeding of the 27th Chinese Control Conference 2008*, Yunan, Kunming China, 16-18 July 2008.
22. X WU, SK Panda and JX Xu, "Dual Frame Control Scheme with a Plug-in Frequency Domain Based Repetitive Controller for Three Phase PWM Boost Rectifier Under Distorted and Unbalanced Supply Voltages", *IEEE International Symposium on Industrial Electronics 2008*, Robinson College, Cambridge, United Kingdom, 30 June - 2 July 2008.
23. X Wu, SK Panda and JX Xu, "Frequency Domain based Repetitive Control of Three-phase PWM Boost Rectifier under Distorted Supply Voltage Conditions", *17th IFAC World Congress*, ed. M Y Chung, P Mishra and H Shim 2008, Seoul, South Korea, pp. 3333-3339, 6 - 11 July 2008.
24. SK Sahoo, SK Panda, JX Xu and VD Yurkevich, "Direct Torque Tracking PI-Controller Design for Switched Reluctance Motor Drive using Singular Perturbation Method", *17th IFAC World Congress 2008*, Seoul, South Korea, pp. 3322 – 3327, 6 – 11 July 2008.
25. X Wu, SK Panda and JX Xu, "Design of a Plug-in Frequency Domain Based Repetitive Current Controller for Three Phase PWM Boost Rectifier Under Distorted and Unbalanced Supply Voltages", *IEEE 39th Annual Power Electronics Specialists Conference 2008*, Rhodes Island, United States, 15 – 19 June 2008.
26. X WU, SK Panda, JX Xu and VD Yurkevich, "Dual Frame Cascaded Controller Design for Three Phase PWM Boost Rectifier under Generalized Supply Voltage Conditions Using Singular Perturbation Method", *IEEE 39th Annual Power Electronics Specialists Conference 2008*, Rhodes, Rhodes Island, Greece, 15-19 June 2008.
27. K Abidi and JX Xu, "Discrete-time output integral sliding mode control for a piezo-motor driven linear motion stage", *Proceedings of 10th IEEE International Workshop on Variable Structure Systems 2008*, Turkey, 8 - 11 June 2008.

28. SK Sahoo, SK Panda and J X Xu, "Direct Torque Tracking PI-Controller Design for Switched Reluctance Motor Drive using Singular Perturbation Method", *17th IFAC World Congress 2008*, Coex, Seoul, South Korea, 6 - 11 July 2008.
29. SK Panda, JX Xu and W Qian, "Review of Torque Ripple Minimization in PM Synchronous Motor Drives", *IEEE Power & Energy Society 2008 General Meeting 2008*, Pittsburgh, United States, 20-24 July 2008.
30. K Abidi and JX Xu, "A revised terminal sliding mode controller design for servo implementation", *Proceedings of 10th IEEE International Workshop on Variable Structure Systems 2008*, Atalya, Turkey, 8 - 11 June 2008.
31. SK Sahoo, SK Panda and JX Xu, "Piece-wise Polynomial based Model for Switched Reluctance Motor", *IEEE Power & Energy Society Annual General Meeting 2008*, Pittsburgh, PA, United States, 20 - 24 July 2008.
32. QG Wang, Z Zhang, KJ Astrom and y zhang, "Guaranteed dominant pole placement with pid controllers", *Proceedings of the 17th world congress, the international federation of automatic control 2008*, Seoul, South Korea, 6 - 11 July 2008.
33. Z Ye, QG Wang, CC Hang and Y zhang, "Frequency Domain Approach to Computing Loop Phase Margins of Multivariable Systems", *Proceedings of the 17th world congress 2008*, seoul, South Korea, 6-11 July 2008.
34. S Huang, KK Tan, KZ Tang and TH Lee, "Fault Detection and Accommodation Control for a Class of Nonlinear Systems" , *The 17th IFAC World Congress*, Coex, Seoul, South Korea, pp. 12763-12768, Coex, Seoul, South Korea, 6-11 July 2008.
35. KK Tan, TH Lee, S Huang, YH Goh, A Tay and KZ Tang, "Remote power electronics control via the Internet", *Proceedings of the International Conference on Power Control and Optimization 2008*, p45_1-p45_7, Chiangmai, Thailand, 18-20 July 2008.
36. J Sun, AN Poo, MH Jr Ang, CM Chew, GS Hong, KK Tan and C de Silva, "Evaluation and optimization of passive vibration controller design for flexible beams", *IEEE International Conference on Systems, Man and Cybernetics 2008*, Suntec City, Singapore, 12 - 15 Oct 2008.
37. H MA, SS Ge and KY Lum, "Attackability in Games of Pursuit and Evasion Games with Antagonizing Players", *Proceedings of The 17th IFAC World Congress 2008*, Coex, Seoul, South Korea, 5-11 July 2008.
38. PCY Chen, J Wan, AN Poo and SS Ge, "Tracking Control of Mobile Robots and Its Application to Formation Control", *IEEE International Conference on Systems Man, and Cybernetics 2008*, 12 - 15 Oct 2008.
39. S Dai, H Lin, SS Ge and X LI, "Simultaneous stability of a collection of networked control systems with uncertain delays", *10th International Conference on Control, Automation, Robotics and Vision*.
40. EJ Teoh and C Xiang, "Feature Selection and Classification via a GA - SVM Hybrid", *Proceedings of WORLDCOMP 2008*, Vegas, United States, 14 - 17 July 2008.

41. C Xiang, L Cao, QG Wang and TH Lee, "Design of Predictor-based Controllers for Input-delay Systems", *Proceedings of 2008 IEEE International Symposium on Industrial Electronics*, pp.1009-1014, United Kingdom, 30 June – 2 July 2008.
42. Z Huang, C Xiang, H Lin and TH Lee, "Stability Analysis of Continuous Time Switched Linear Planar Systems", *Proceedings of the fourteenth Yale the 14th Yale Workshop on Adaptive and Learning Systems 2008*, pp.113-120, United States, 2- 4 June 2008.
43. W Gu, YV Venkatesh and C Xiang, "A Novel Application of a Self-Organizing Network for Recognition of Facial Expressions from Contours", *5th International Symposium on Neural Networks*, Beijing, China, 24-28 September 2008.
44. ZR Ang, SK Panda and JX Xu, "Wireless indoor navigation system using RF and digital compass sensor", *Proceedings of international Convention on Rehabilitation Engineering & Assistive Technology 2008*, Bangkok, Thailand, 13 - 15 May 2008.
45. CJ Gan, JX Xu and SK Panda, "Development of a balance platform using visual feedback", *Proceedings of international Convention on Rehabilitation Engineering & Assistive Technology*, Bangkok, Thailand, 13 - 15 May 2008.
46. L Shao, M Palaniapan, L Khine and WW Tan, "Nonlinear Behavior of Lamé-Mode SOI Bulk Resonator", *Int'l Frequency Control Symposium 2008*, Honolulu, Hawaii, United States, 18-21 May 2008.
47. Y Yang and H Lin, "p53-Mdm2 core regulation revealed by a mathematical model", *IEEE International Conference on Systems, Man, and Cybernetics 2008*, Suntec City, Singapore, 12 - 15 Oct 2008.
48. Z Ji, H Lin and TH Lee, "Controllability of multi-agent systems with switching topology", *3rd IEEE Conference on CIS-RAM*, Chengdu, China, 3-6 June 2008.
49. JX Xu and DQ Huang, "Initial state iterative learning for final state control in motion systems", *Proceedings of 17th World Congress of IFAC 2008*, Coex, Seoul, Afghanistan, 5 - 11 July 2008.
50. JX Xu, "New lead compensator designs for control education and engineering", *Proceedings of 27th Chinese Control Conference 2008*, Kuming, China, 16-18 July 2008.
51. A Tay, KK Tan, S Zhao and TH Lee, "Predictive ratio control of multizone thermal processing system in lithography", *Proceedings of 17th IFAC World Congress 2008*, pp. 10863-10868, Coex, Seoul, South Korea, 6-11 July 2008.
52. LHI Lim and AP Loh, "Sinusoidal Dithers in Relay Feedback Systems", *American Control Conference*, *Proceedings of the American Control Conference 2008*, Westin Seattle, Seattle, United States, 11 - 13 June 2008.

53. CABIBIHAN, J, "Design of Prosthetic Skins with Humanlike Softness", *13th International Conference on Biomedical Engineering*, Singapore, 4 - 6 Dec 2008.
54. S Chen, KK Tan and S Huang, "Relay-based force ripple and friction modeling for the permanent magnet linear motor", *Proceedings of the 2008 International Conference on Control, Automation, Robotics and Vision*, Hanoi, Vietnam, 17-20 Dec 2008.
55. KK Tan, KZ Tang and S Huang, "Development of a DSP-based Physiotherapy System". *2008 DSP Creative Design Contest*. Tainan: Southern Taiwan University. 29 Nov 2008.
56. Z Ji, H Lin and TH Lee, "A graph theory based characterization of controllability for nearest neighbor interconnections with fixed topology", *Proceedings of the 46th IEEE Conference on Decision and Control*, December 2008.