

Publications

Journal Papers in Year 2010

1. WY Gu, V Venkatesh and C Xiang, "A Novel Allocation of Self-Organizing Network for Facial Expression Recognition from Radial Encoded Contours", *Soft Computing*, Vol. 14, No. 2, pp. 113-122, January 2010.
2. B Yun, BM Chen, KY Lum and TH Lee, "Design and implementation of a leader-follower formation flight control system for unmanned helicopters", *Journal of Control Theory and Applications*, Vol. 8, No. 1, pp. 61-68, February 2010.
3. KK Tan, KZ Tang, V Ng, A Tay, S Yen and TH Lee, "Bridging Physics to Electronics – an Outreach Effort", *IEEE Transactions on Education*, Vol. 53, No. 1, pp. 3-11, February 2010.
4. JC Lv, KK Tan, Y Zhang and S Huang, "A Family of Fuzzy Learning Algorithms for Robust Principal Component Analysis Neural Networks", *IEEE Transactions on fuzzy systems*, Vol. 18, No. 1, pp. 217-226, February 2010.
5. A Tay, HT Chua, Y Wand and YS Ngo, "Equipment design and control of advanced thermal processing module in lithography", *IEEE Transactions on Industrial Electronics*, Vol. 57, No. 3, pp. 1112-1119, March 2010.
6. CK Thum, C Du, BM Chen, EH Ong and KP Tan, "A unified control scheme for combined seeking and track-following of a hard disk drive servo system", *IEEE Transactions on Control Systems Technology*, Vol. 18, No. 2, pp. 294-306, March 2010.
7. G Cai, BM Chen and TH Lee, "An overview on development of miniature unmanned rotorcraft systems", *Frontiers of Electrical and Electronic Engineering*, Vol. 5, No. 1, pp. 1-14, March 2010.
8. JH Ang, KC Tan and AA Mamun, "An Evolutionary memetic algorithm for rule extraction", *Expert Systems With Applications*, Vol. 37, No. 2, pp. 1302-1315, March 2010.
9. Z Huang, C Xiang, H Lin and TH Lee, "Necessary and Sufficient Conditions for Regional Stabilizability of Generic Switched Linear Systems with a Pair of Planar Subsystems", *International Journal of Control*, Vol. 83, No. 4, pp. 694-715, April 2010.
10. S Huang, and KK Tan, "Hardware-in-the-Loop Simulation for the Development of an Experimental Linear Drive", *IEEE Transactions on Industrial Electronics*, Vol. 57, No. 4, pp. 1167-1174, April 2010.
11. CK Goh, KC Tan, DS Liu and SC Chiam, "A competitive and cooperative co-evolutionary approach to multi-objective particle swarm optimization algorithm design", *European Journal of Operational Research*, Vol. 202, No. 1, pp. 42-54, April 2010.

12. S Chen, KK Tan and S Huang, "Modeling and Compensation of Ripples and Friction in Permanent Magnet Linear Motor using a Hysteretic Relay", *IEEE-ASME Transactions on Mechatronics*, Vol. 15, No. 4, pp. 586-594, August 2010.
13. XH Wu, SK Panda and JX Xu, "Design of a Plug-In Repetitive Control Scheme for Eliminating Supply-Side Current Harmonics of Three-Phase PWM Boost Rectifiers Under Generalized Supply Voltage Condition", *IEEE Transactions on Power Electronics*, Vol. 25, No. 7, pp.1800-1810, July 2010.
14. ZY Nie, QG Wang, W Min and H Yong, "Exact computation of loop gain margins of multivariable feedback systems", *Journal of Process Control*, Vol. 20, No. 6, pp.762-768, July 2010.
15. SC Lee, QG Wang and BN Le, "Stabilizing control for a class of delay unstable processes", *ISA Transactions*, Vol. 49, No. 3, pp. 318-325, July 2010.
16. KR Qin, C Xiang and SS Ge, "Generation of dynamic biochemical signals with a tube mixer: Effect of dispersion in an oscillatory flow", *Heat And Mass Transfer*, Vol. 46, No. 6, pp. 675-686, May 2010.
17. W Lan, CK Thum and BM Chen, "A hard disk drive servo system design using composite nonlinear feedback control with optimal nonlinear gain tuning methods", *IEEE Transactions on Industrial Electronics*, Vol. 57, No. 5, pp. 1735-1745, May 2010.
18. H Yan, WK Ho, KV Ling and KW Lim, "Multi-zone thermal processing in semiconductor manufacturing: bias estimation", *IEEE Transactions on Industrial Informatics*, Vol. 6, No. 2, pp. 216-228, May 2010.
19. SL Dai, H Lin and SS Ge, "Scheduling-and-control codesign for a collection of networked control systems with uncertain delays", *IEEE Transactions on Control Systems Technology*, Vol. 18, No. 1, pp. 66-78, January 2010.
20. BM Chen, SS Ge, VE How and YS Choo, "Robust Adaptive Neural Network Control for a Class of Uncertain MIMO Nonlinear Systems with Input Nonlinearities", *IEEE Transactions on Neural Networks*, Vol. 21, No. 5, pp. 796-812, May 2010.
21. SS Ge, C Fua and KW Lim, "Agent Formations in 3-D Spaces with Communication Limitations Using an Adaptive Q-Structure", *Robotics and Autonomous Systems*, Vol. 58, No. 4, pp. 333-348, April 2010.
22. SH Teh, CH Heng and A Tay, "Adaptive Library-based Device Performance-driven Optical Proximity Correction", *Electronics Letters*, Vol. 46, No. 7, pp. 513-515, April 2010.
23. CK Pang, FL Lewis and TH Lee, "Modal Parametric Identification of Flexible Mechanical Structures in Mechatronic Systems", *Transactions of the Institute of Measurement and Control*, Vol. 32, No. 2, pp. 137-154, April 2010.
24. WT Koo, CK Goh and KC Tan, "A predictive gradient strategy for multiobjective evolutionary algorithms in a fast changing environment", *Memetic Computing*, Vol. 2, No. 2, pp. 87-110, May 2010.

25. CH Tan, KC Tan, A Tay "Computationally efficient behaviour based controller for real time car racing simulation", *Expert Systems With Applications*, Vol. 37, No. 7, pp. 4850-4859, July 2010.
26. CK Goh, KC Tan, CY Cheong and YS Ong, "An Investigation on Noise-Induced Features in Robust Evolutionary Multi-Objective Optimization", *Expert Systems with Applications*, Vol. 37, No. 8, pp. 5960-5980, August 2010.
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28. SC Chiam, KC Tan and A AL Mamun, "Exploiting Molecular Dynamics for Multi-objective Optimization", *Expert Systems with Applications*, Vol. 37, No. 8, pp. 5981-5992, February 2010.
29. KC Tan, CY Cheong and Y Peng, "A genetic approach for real-time identification and control of a helicopter system", *International Journal of Computational Intelligence in Control*, Vol. 2, No. 1, pp. 11-18, June 2010.
30. F Hong, SS Ge, CK Pang and TH Lee, "Robust adaptive Neuro-Fuzzy Control of Uncertain Nonholonomic Systems", *Journal of Control Theory and Application*, Vol. 8, No. 2, pp. 125-138, May 2010.
31. G Cheng, BM Chen, K Peng and TH Lee, "A Matlab toolkit for composite nonlinear feedback control - improving transient response in tracking control", *Journal of Control Theory and Applications*, Vol. 8, No. 3, pp. 271-279, August 2010.
32. B Ren, SS Ge, KP Tee and TH Lee, "Adaptive Neural Control for Output Feedback Nonlinear Systems Using a Barrier Lyapunov Function", *IEEE Transactions on Neural Networks*, Vol. 21, No. 8, pp. 1339-1345, August 2010.
33. M Wang, SS Ge and KS Hong, "Approximation-Based Adaptive Tracking Control of Pure-Feedback Nonlinear Systems with Multiple Unknown Time-Varying Delays", *IEEE Transactions on Neural Networks*, Vol. 21, No. 11, pp. 1804-1816, November 2010.
34. C Yang, Y Li, SS Ge and TH Lee, "Adaptive control of a class of discrete-time MIMO nonlinear systems with uncertain couplings", *International Journal of Control*, Vol. 83, No. 10, pp. 2120-2133, October 2010.
35. SS Ge, W He, BE How and YS Choo, "Boundary Control of a Coupled Nonlinear Flexible Marine Riser", *IEEE Transactions on Control Systems Technology*, Vol. 18, No. 5, pp. 1080-1091, September 2010.
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Conference Papers in Year 2010

1. J Yuan, KK Tan and TH Lee, "Development of an e-Guardian for the single elderly or the chronically-ill patients", *Proceedings of the 2010 International Conference on Communications and Mobile Computing*, pp. 378-382, China, 12-14 Apr 2010.
2. KK Tan, "Development of a mobile real-time feedback system for engineering education", *Proceedings of the 3rd Regional Conference on Engineering Education and Research in Higher Education*, pp. 651-655, China, 7-9 Jun 2010.
3. J Hu, KR Qin, C Xiang and TH Lee, "Modeling of Hysteresis in a Mammalian Gene Regulatory Network", *Proceedings of the 9th Annual Conference on Computational System Bioinformatics*, pp. 50-55, United States, 16-18 Aug 2010.
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5. M Nie and WW Tan, "Derivation of the Analytical Structure Of Symmetrical IT2 Fuzzy PD and PI Controllers", *Proceedings of the IEEE International Conference on Fuzzy Systems*, pp. 1096-1103, Spain, 18-23 Jul 2010.
6. JX Xu and X DENG, "Dynamic neural network based chemotaxis behaviors modeling of *C.elegans*", *Proceedings of 2010 IEEE World Congress on Computational Intelligence*, Spain, 18-23 Jul 2010.
7. SR Liyanage, JX Xu, CT Guan, KK Ang and TH Lee, "EEG signal separation for multi-class motor imagery using common spatial patterns based on joint approximate diagonalization", *Proceedings of 2010 IEEE World Congress on Computational Intelligence*, Spain, 18-23 Jul 2010.
8. H Ju, JX Xu and MJVD Antonius, "Classification of musical styles using liquid state machines", *Proceedings of 2010 IEEE World Congress on Computational Intelligence*, Spain, 18-23 Jul 2010.
9. J Yuan, KK Tan, KZ Tang and TH Lee, "Remote Monitoring of Wildlife and Environment via GPS/GPRS", *Proceedings of the 12th IASTED International Conference Control and Applications*, pp. 614-620, Canada, 15-17 Jul 2010.
10. JX Xu, X Zhao and D Srinivasan, "Fuzzy logic controller for freeway ramp metering with particle swarm optimization and Paramics platform", *Proceedings of 2010 World Congress on Computational Intelligence*, Spain, 18-23 Jul 2010.

11. N Tan, H Lin and Z Ji, "New results on controllability of multi-agent systems". Proceedings of the 8th World Congress on Intelligent Control and Automation, China, 7-9 Jul 2010.
12. Z Ji, H Lin and TH Lee, "Downer and perron branches in interconnection topologies for coordination and control of multi-agent networks", *Proceedings of the 8th World Congress on Intelligent Control and Automation*, China, 7-9 Jul 2010.
13. TW Chua, WW Tan, Z Wang and CS Chang, "Hybrid Time-Frequency Domain Analysis for Inverter-Fed Induction Motor Fault Detection", *IEEE International Symposium on Industrial Electronics*, Italy, 4-7 Jul 2010.
14. SK Phang, JJ Ong, RTC Yeo, BM Chen and TH Lee, "Autonomous mini-UAV for indoor flight with embedded on-board vision processing as navigation system", *Proceedings of the IEEE R8 International Conference on Computational Technologies in Electrical and Electronics Engineering*, pp. 722-727, Russia, 11-15 Jul 2010.
15. F Lin, BM Chen, KY Lum and TH Lee, "A robust vision system on an unmanned helicopter for ground target seeking and following", *Proceedings of the 8th World Congress on Intelligent Control and Automation*, pp. 276-281, China, 6-9 Jul 2010.
16. BM Chen, SS Ge and R Cui, "Adaptive NN Tracking Control of Overactuated Ocean Surface Vessels", *Proceedings of 8th World Congress on Intelligent Control and Automation*, China, 6-9 Jul 2010.
17. KK Tan and S Huang, "Problem and solution of designing an air bearing system", *Proceedings of the 2nd International Conference on Industrial and Information Systems*, pp. 212-215, China, 10-11 Jul 2010.
18. CY Lai, C Xiang and TH Lee, "Identification and Control of Piecewise Affine Systems using Multiple Models and Model Predictive Control", *Proceedings of the IASTED International Conference on Control and Applications*, Canada, 15-17 Jul 2010.
19. CK Pang, F Hong, WE Wong and TH Lee, "Self-Sensing Actuation for Piezoelectric and MEMS Devices in Data Storage Applications", *Proceedings of the 3rd International Data Storage Technology Conference*, pp.23-26, Thailand, 29 Jul-1 Aug 2010.
20. JX Xu and D Ji, "A feature-based data-driven approach for controller design and tuning", *Proceedings of 2010 IEEE International Conferences on Cybernetics & Intelligent Systems*, Singapore, 28-30 Jun 2010.
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23. JX Xu, Z Guo and TH Lee, "A synthesized integral sliding mode controller for an underactuated unicycle", *Proceedings of 10th IEEE VSS Workshop*, Mexico, 26-28 Jun 2010.
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25. JX Xu, D Narayanachar and KY Lum*, "Analysis of proportional navigation guidance law with delayed line-of-sight rate", *Proceedings of 8th IEEE International Conference on Control and Automation*, China, 9-11 Jun 2010.
26. S Sangit, SK Panda and JX Xu, "A real time control algorithm for a myoelectric glove for the rehabilitation of wrist and elbow of stroke patients", *Proceedings of the 8th IEEE International Conference on Control Theory and Applications*, China, 9-11 Jun 2010.
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33. Y Yang and H Lin, "Reachability analysis based model validation in systems biology ", *Proceedings of 2010 Conference on Cybernetics & Intelligent Systems*, Singapore, 28-30 Jun 2010.

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35. Q Ling and H Lin, "Necessary and sufficient bit rate conditions to stabilize quantized Markov jump linear systems", *Proceedings of 2010 American Control Conference*, United States, 30 Jun-2 Jul 2010.
36. H Lin and M Karimadini, "Optimal task automaton decomposabilization for cooperative multiagent systems", *Proceedings of the 8th International Conference on Control and Automation*, China, 9-11 Jun 2010.
37. F Lin, BM Chen and TH Lee, "Vision aided motion estimation for unmanned helicopters in GPS denied environments", *Proceedings of the 2010 IEEE International Conference on Cybernetics & Intelligent Systems*, pp. 64-69, Singapore, 28-30 Jun 2010.
38. B Wang, X Dong and BM Chen, "Cascaded control of 3D path following for an unmanned helicopter", *Proceedings of 2010 IEEE International Conference on Cybernetics & Intelligent Systems*, pp. 70-75, Singapore, 28-30 Jun 2010.
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40. X Dong, G Cai, F Lin, BM Chen, H Lin and TH Lee, "Implementation of formation flight of multiple unmanned aerial vehicles", *Proceedings of the 8th IEEE International Conference on Control and Automation*, pp. 904-909, China, 9-11 Jun 2010.
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44. X Zheng and BM Chen, "Identification of market forces in the financial system adaptation framework", *Proceedings of the 8th IEEE International Conference on Control and Automation*, pp. 103-108, China, 9-11 Jun 2010.
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47. C Yang, Y Li, SS Ge and TH Lee, "Adaptive Predictive Control of a Class of Discrete-Time MIMO Nonlinear Systems with Uncertain Couplings", *Proceedings of 2010 American Control Conference*, United States, 30 Jun-2 Jul 2010.
48. R Cui, SS Ge and B Ren, "Synchronized Altitude Tracking of Multiple Unmanned Helicopters", *Proceedings of the 2010 American Control Conference*, United States, 30 Jun-2 Jul 2010.
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54. O Geramifard, JX Xu, CK Pang, JH Zhou and X Li, "Data-driven approaches in health condition monitoring – a comparative study", *Proceedings of the 8th IEEE International Conference on Control & Automation*, China, 9-11 Jun 2010.
55. JX Xu, YG Sun and CK Pang, "Modelling human falling process based on a five-link bipedal robot", *Proceedings of the 8th IEEE International Conference on Control and Automation*, China, 9-11 Jun 2010.
56. F Hong, SS Ge, CK Pang and TH Lee, "Robust Adaptive Neuro-Fuzzy Control of Uncertain Nonholonomic Systems", *Proceedings of the 8th IEEE International Conference on Control and Automation*, pp. 2201-2206, China, 9-11 Jun 2010.
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61. G Dai, F Hong, CK Pang, M Nagashima, "Digest of the Asia Pacific Magnetic Recording Conference", *Disturbance Rejection on Critical Resonant Mode in Hard Disk Drive*, Singapore, 10-12 Nov 2010.
62. F Hong, CK Pang, WE Wong and TH Lee, "Preprints of the 5th IFAC Symposium on Mechatronic Systems", A Peak Filtering Method with Improved Transient Response for Narrow-Band Disturbance Rejection in Hard Disk Drives, USA, 13-15 Sep 2010.
63. CK Pang, JH Zhou, ZW Zhong and FL Lewis, "Tool Wear Forecast Using Dominant Feature Identification of Acoustic Emissions", *Proceedings of the 2010 IEEE Multi-conference of Systems and Control*, Japan, 8-10 September 2010.
64. Y Li, C Yang and SS Ge, "Learning Compliance Control of Robot Manipulators in Contact with the Unknown Environment", *Proceedings of the 6th Annual IEEE Conference on Automation Science and Engineering (CASE)*, Canada, 21-24 August 2010.
65. JJ Cabibihan and SS Ge, "Synthetic Finger Phalanx with Lifelike Skin Compliance", *Third International Conference ICIRA 2010*, China, 10-12 November 2010.
66. C Chin, Y Li, SS Ge and JJ Cabibihan, "Adaptive Compliance Control for Collision-Tolerant Robot Arm with Viscoelastic Trunk", *Third International Conference ICIRA 2010*, China, 10-12 November 2010.
67. JJ Cabibihan, W Yussion, S Salehi and SS Ge, "Minimal Set of Recognizable Gestures for a 10 DOF Anthropomorphic Robot", *Internal Conference on Social Robotics*, Singapore, 23-25 November 2010.
68. JJ Cabibihan, R Jegadeesan, S Salehi and SS Ge, "Synthetic Skins with Humanlike Warmth", *Internal Conference on Social Robotics*, Singapore, 23-25 November 2010.
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71. Q Zhang, PY Tao, SS Ge, AT Abraham and et al, "Mission-Oriented Design: A Fully Autonomous Mobile Urban Robot", *2010 IEEE Conference on Multisensor Fusion and Integration Intelligent Systems (MFI)*, United States, 5-7 September 2010.
72. L Meng, F Sun and SS Ge, "Extrinsic Calibration of a Camera with Dual 2D Laser Range Sensors for a Mobile Robot", *2010 IEEE International Symposium on Intelligent Control*, Japan, 8-10 September 2010.
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74. SS Ge, W He, B Ren and YS Choo, "Boundary Control of a Flexible Marine Installation System", *Proceedings of the 49th IEEE Conference on Decision and Control*, United States, 15-17 December 2010.
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76. SS Ge, TL Vu, W He and CC Hang, "Non-smooth Lyapunov Function-based Global Stabilization for 2-Dimensional Quantum Filters", *Proceedings of the 49th IEEE Conference on Decision and Control*, United States, 15-17 December 2010.
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