

## RESEARCH OUTPUTS 2010 - 2011

### Chapter in an edited book

- 1 LIU, A, **LIU, C** and YU, K.F. " Group-Sequential Methods in Biomedical Research ". In Samuel Kotz, ed., *Encyclopedia of Statistical Sciences 2nd*, Wiley, John Wiley & Sons, NC, US, pp.XXXX (2010) ISBN 978-0-471-1667193 (DOI:10.1002/0471667196.ess7128)

### Publication in refereed journal

- 2 AN, CONG PEI, **CHEN, X.J.**, **SLOAN, IAN.H** and WOMERSLEY, ROBERT S. " Well conditioned spherical designs for integration and interpolation on the two-sphere ". *SIAM J.Numer. Anal*, Vol. 48, No. 6, pp.2137-2157 (2010)
- 3 BALAKRISHNAN, N and **ZHAO, X.Q.** " A class of multi-sample nonparametric tests for panel count data ". *Annals of the Institute of Statistical Mathematics*, Vol. 63, pp.135-156 (2011)
- 4 CATRAL, M., KIRKLAND, S.J., NEUMANN, M. and **SZE, NUNG SING** " The Kemeny Constant for Finite Homogeneous Ergodic Markov Chains ". *JOURNAL OF SCIENTIFIC COMPUTING*, Vol. 45, No. 1-3, pp.151-166 (2010)
- 5 **CHAN, CHI KIN**, **LEE, Y.C.E.** and GOYAL, S.K. " A delayed payment method in co-ordinating a single-vendor multi-buyer supply chain ". *Int. J. Production Economics*, Vol. 127, pp.95-102 (2010)
- 6 CHANG, K.C., **QI, L** and ZHOU, G " Singular values of a real rectangular tensor ". *Journal of Mathematical Analysis & Applications*, Vol. 370, pp.284-294 (2010)
- 7 CHEN, C.R., CHENG, T.C.E., LI, S.J. and **YANG, X.Q.** " Nonlinear augmented Lagrangian for nonconvex multiobjective optimization ". *JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION*, Vol. 7, No. 1, pp.157-174 (2011)
- 8 CHEN, J and **QI, L** " Pseudotransient Continuation for Solving Systems of Nonsmooth Equations with Inequality Constraints ". *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS*, Vol. 147, pp.223-242 (2010)
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- 10 **CHEN, X.J.** and ZHOU, W " Smoothing Nonlinear Conjugate Gradient Method for Image Restoration using nonsmooth Nonconvex Minimization ". *SIAM J. Imaging Sciences*, Vol. 3, No. 4, pp.765-790 (2010)
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- 12 **CHEN, X.J.**, WOMERSLEY, R and YE, J " Minimizing the Condition number of a Gram Matrix ". *SIAM J. Optimization*, Vol. 21, No. 1, pp.127-148 (2011)
- 13 **CHEN, X.J.**, XU, F and YE, Y " Lower bound theory of nonzero entries in solutions of  $l_2$ - $l_1$  minimization ". *SIAM J. Scientific Computing*, Vol. 32, pp.2832-2852 (2010)

- 14 FARAZ, NAEEM, KHAN, YASIR and **AUSTIN, FRANCIS** " An Alternative Approach to Differential-Difference Equations Using the Variational Iteration Method ". *ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES*, Vol. 65, No. 12, pp.1055-1059 (2010)
- 15 FENG, JIAN WEN, HE, LING, XU, CHEN, **AUSTIN, FRANCIS** and WU, GENG " Synchronizing the noise-perturbed Genesio chaotic system by sliding mode control ". *COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION*, Vol. 15, No. 9, pp.2546-2551 (2010)
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- 23 GUO, Y.C., JIANG, P., **CHAN, C.K.** and LIN, W.Y. " Large eddy simulation of coherent structures in rectangular methane non-premixed flame ". *JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS*, Vol. 235, No. 13, pp.3760-3767 (2011) (dx.doi.org/10.1016/j.cam.2011.01.022)
- 24 HE, XIAOMING, LIN, TAO and **LIN, YANPING** " Immersed finite element methods for elliptic interface problems with non-homogeneous jump conditions ". *International Journal of Numerical Analysis and Modeling*, Vol. 8, No. 2, pp.284-301 (2011) (<http://www.math.ualberta.ca/ijnam/contents.htm>)
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- 27 **HUANG, JIANHUI** and **JIA, GUANGYAN** " On the minimal members of convex expectations. ". *Journal of Mathematical Analysis and Applications*, Vol. 376, No. 1, pp.42-50 (2011)
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- 34 **IP, W.C.**, **ZHANG, L, WONG, HEUNG** and **XIA, J.** " Multi-scale variability and trends of precipitation in North China ". *WATER RESOURCES*, Vol. 38, No. 1, pp.18-28 (2011)
- 35 **KHAN, YASIR** and **AUSTIN, FRANCIS** " Application of the Laplace Decomposition Method to Nonlinear Homogeneous and Non-Homogenous Advection Equations ". *ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES*, Vol. 65, No. 10, pp.849-853 (2010)
- 36 **KWONG, MAN KAM** and **WONG, WAI HIM** " Nonconvergent radial solutions of semilinear elliptic equations ". *Asymptotic Analysis*, Vol. 70, No. 1,2, pp.1-11 (2010)
- 37 **KWONG, MAN KAM** and **ZETTL, ANTON** " NEW PROOFS AND EXTENSIONS OF SYLVESTER'S AND JOHNSON'S INERTIA THEOREMS TO NON-HERMITIAN MATRICES ". *Proceedings of The American Mathematical Society*, Vol. 139, No. 11, pp.3795-3806 (2011)
- 38 **LEUNG, B.P.K., WONG, HEUNG, ZHANG, RIQUAN** and **HAN, SHENGTONG** " Smoothing Spline Estimation for Partially Linear Single-index Models ". *Communications in statistics --- simulation and computation*, Vol. 39, pp.1953-1961 (2010)
- 39 **LI, L.K.**, **SHAO, S.** and **YIU, K.F.C.** " Nonlinear dynamical system modeling via recurrent neural networks and a weighted state space search algorithm ". *JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION*, Vol. 7, No. 2, pp.385-400 (2011)
- 40 **LI, TONG** and **WANG, ZHIAN** " Asymptotic nonlinear stability of traveling waves to conservation laws arising from chemotaxis ". *JOURNAL OF DIFFERENTIAL EQUATIONS*, Vol. 250, pp.1310-1333 (2011)

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- 42 LIN, T, **LIN, YANPING**, SUN, WEIWEI and WANG, Z " Immersed finite element methods for 4th order differential equations ". *Journal of Computational and Applied Mathematics*, Vol. 235, No. 13, pp.3953-3964 (2011)
- 43 **LING, C**, NI, Q, **QI, L.Q.** and WU, S " A new smoothing Newton-type algorithm for semi-infinite programming ". *JOURNAL OF GLOBAL OPTIMIZATION*, Vol. 47, pp.133-159 (2010)
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- 46 **LIU, C** and WANG, Q " Semiparametric estimation for regression coefficients in the Cox model with failure indicators missing at random ". *Statistica Sinica*, Vol. 20, pp.1125-1142 (2010)
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- 48 **LIU, Q.**, **CHAN, C.K.** and CHENG, X.L. " Simulation of a premixed turbulent flame by a conservative level set method ". *INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS*, Vol. 88, No. 10, pp.2154-2166 (2011) (dx.doi.org/10.1080/00207160.2010.531129)
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- 60 **SIM, C.K.** " Asymptotic Behavior of Underlying NT Paths in Interior Point Methods for Monotone Semidefinite Linear Complementarity Problems ". *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS*, Vol. 148, pp.79-106 (2011)
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List of Annexures. 1. Research Output Units, 2010 2. Increase/ Decrease in Output Units, 2005-2010 3. Overall Output, 2005-2010 4. Total Output by Publication Type, 2005-2010 5. Total Units Awarded by CESM, 2010 6. A. Output by CESM per Staff Member, 2010. B. Number of Staff by CESM, 2010 7. Total Publications by Broad Field, 2010 8. Total Staff by Broad Field, 2010 9. Publications in Journals, Books and Conferences by Field. 10. Publications Output per Capita, 2009-2010 11. 15. On 02 and 03 August 2011 the Research Outputs Evaluation Panel, chaired by Prof Prins Nevhutalu, Deputy Vice-Chancellor: Research, Innovation &. Page 8. Partnerships at Tshwane University of Technology (TUT), met to evaluate. Department of Architecture Launches Research and Development Studios. 29 Dec 2011. 16 Dec 2011. Faculty, Architecture. Weijen Wang awarded Research Output Prize 2010-2011. 16 Dec 2011. Associate Professor Weijen Wang of the Department of Architecture has been awarded the Research Output Prize 2010-11 in the Faculty of Architecture for his research output entitled "Baishawan Beach and Visitor's Center, Taipei, Taiwan", TAIwan Architecture Vol.174, March 2010, pp. 44-51. Han SH, Davis SR, Wang X, Kim J, Carmichael DG 2011, Proceedings of The 4th International Conference on Construction Engineering and Project Management, Fourth International Conference on Construction Engineering and Project Management, 16-18 Feb 2011 Curated Exhibitions. Curated Festivals. Design/Architecture. Film/Video. Simon K, 2010, Expanded Architecture 2010, Faculty of Architecture, Design and Planning, University of Sydney. Reports. Theses/Dissertations. Visual Arts. Working Papers. Research Outputs Archive. Other published Research/Creative Works 2009-2011. Conference Posters. Research book or monograph (author) Academic research: not refereed. Serial No. Title/Brief Description. Author(s). 1. Development of laser selective activation and metallization technology for the manufacturing of ceramic interconnect substrate (CIS). 1st Ed. The Hong Kong Polytechnic University, Hong Kong, 93pp (January 2011) ISBN 978-962-86893-9-2. YUNG, K.C. Chapter in an edited book (author) Academic research: not refereed. Serial No. Title/Brief Description. Author(s). 2. "Design for supply chain with product development issues using cellular particle swarm optimization (CPSO) technique"