

Journal Publications

- 1) Peng Tang, Mingbo Zhao, Tommy W. S. Chow, “Text Style Analysis using Trace Ratio Criterion Patch Alignment Embedding”, *Neurocomputing*, in press.
- 2) Xiaohang Jin, Fang Yuan, Tommy W. S. Chow, Mingbo Zhao “Weighted Local and Global Regressive Mapping: A New Manifold Learning Method for Machine Defect Classification”, *Engineering Applications of Artificial Intelligence*, in press.
- 3) Yu Wang, Xiongfei Wei, K L Tsui, Tommy W. S. Chow, “Tribological Degradation of Head-disk Interface in Hard Disk Drives under Accelerated Wear Condition”, *IEEE Traction on Magnetics*, in press.
- 4) Bill C.P. Lau, Eden W.M. Ma, Tommy W. S. Chow, “Probabilistic Fault Detector for Wireless Sensor Network”, *Expert Systems with Applications*, vol. 41, no. 8, pp. 3703-3711, Jun. 2014.
- 5) Xiaohang Jin, Mingbo Zhao, Tommy W. S. Chow, and Michael Pecht, “Motor Bearing Fault Diagnosis Using Trace Ratio Linear Discriminant Analysis”, *IEEE Transactions on Industrial Electronics*, vol. 61, no. 5, pp. 2441-2451, May. 2014.
- 6) Yu Wang, Eden W. M. Ma, Tommy W. S. Chow, and K. L. Tsui, “A Two-step Parametric Method for Failure Prediction in Hard Disk Drives”, *IEEE Transactions on Industrial Informatics*, vol. 10, no. 1, pp. 419-430, Feb. 2014.
- 7) Bing Li, Tommy W. S. Chow, Peng Tang, “Analyzing Rough Set based Attribute Reductions by Extension Rule”, *Neurocomputing*, vol. 123, pp. 185-196, Jan. 2014.
- 8) Xiaohang Jin, Tommy W. S. Chow, “Anomaly Detection of Cooling Fan and Fault Classification of Induction Motor Using Mahalanobis-Taguchi System”, *Expert Systems with Applications*, vol. 40, no. 15, pp. 5787-5795, Nov. 2013.
- 9) Zhao Zhang, Mingbo Zhao, Tommy W. S. Chow, “Binary- and Multi-Class Group Sparse Canonical Correlation Analysis for Feature Extraction and Classification”, *IEEE Transactions on Knowledge Data Engineering*, vol. 25, no. 10, pp. 2192-2205, Oct. 2013.
- 10) Bing Li, Tommy W. S. Chow, Di Huang, “A Novel Feature Selection Method and its Application”, *Journal of Intelligent Information Systems*, vol. 41, no. 2, pp. 235-268, Oct. 2013.

- 11) Bernard Chiu, Bing Li, Tommy W. S. Chow, “Novel 3D Ultrasound Image-based Biomarkers based on a Feature Selection from a 2D Standardized Vessel Wall Thickness Map: a Tool for Sensitive Assessment of Therapies for Carotid Atherosclerosis”, *Physics in Medicine and Biology*, Vol 58, No. 17, pp. 5959-5982, Sep 2013.
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- 13) Bing Li, Guanrong Chen, Tommy W. S. Chow, “Naming Game With Multiple Hearers”, *Communications in Nonlinear Science and Numerical Simulation*, vol. 18, no. 5, pp. 1214-1228, May 2013.
- 14) Zhou Wu, Tommy W. S. Chow, “Neighborhood Field for Cooperative Optimization”, *Soft Computing*, vol. 17, no. 5, pp 819-834, May 2013
- 15) Mingbo Zhao, Rosa H. M. Chan, Peng Tang, Tommy W. S. Chow, Savio W. H. Wong, “Trace Ratio Linear Discriminant Analysis for Medical Diagnosis: A Case Study of Dementia”, *IEEE Signal Process Letters*, vol. 20, no. 5, pp. 431-434, May 2013.
- 16) Zhao Zhang, Tommy W. S. Chow, Mingbo Zhao, “Trace Ratio Optimization-based Semi-supervised Nonlinear Dimensionality Reduction For Marginal Manifold Visualization”, *IEEE Transactions on Knowledge Data Engineering*, vol. 25, no. 5, pp. 1148-1161, May 2013.
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- 19) Zhou Wu, Tommy W. S. Chow, “Binary Neighbourhood Field Optimisation for Unit Commitment Problems”, *IET Generation, Transmission & Distribution*, vol. 7, no. 3, pp. 298 – 308, Mar. 2013.
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