



Shen-Shyang Ho

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Education:

BS (Mathematics with Computational Science), National University of Singapore

PhD (Computer Science), George Mason University

Postdoctoral, California Institute of Technology and NASA Jet Propulsion Laboratory

Research Expertise:

Data Mining | Artificial Intelligence | Machine Learning | Pattern Recognition

My current research interests are: transfer learning, one-shot learning, computational creativity, spatiotemporal data mining, privacy issues in data mining, machine learning on network/graph data. My projects and investigations are both research-driven and application-driven. The application-driven investigations utilize real-world data such as mobile data from smartphones, crowdsourced sensor data collected using smartphone, factory sensor data, text data (from internet), audio data, image data, and satellite data.

Member of:

Association for Computing Machinery (www.acm.org)

Institute of Electrical and Electronics Engineers (www.ieee.org)

Honors and Awards:

NASA Postdoctoral Fellowship, 2007-2009.

Recent Academic Projects:

2017 SURP projects: "Histogram-based Conformal Set Predictor with Application to Trajectory-based Object Similarity Search" and "A Knowledge Transfer Framework for Computational Creativity with Application to Music Generation"

Recent Publications:

Zhao J, Ho S-S (2017). Structural knowledge transfer for learning Sum-Product Networks. Knowledge-Based Systems, 122:159-166.

Chai WH, Ho S-S, Goh CK, Chia LT, Quek HC (2017). A fast sparse reconstruction approach for high resolution image-based object surface anomaly detection. Fifteenth IAPR International Conference on Machine Vision Applications (MVA), 13-16.

Ho S-S, Dai P, Rudzicz F (2016) Manifold Learning for Multivariate Variable-Length Sequences With an Application to Similarity Search, IEEE Transactions on Neural Networks and Learning System. 27:1333-1344.

Chen PH, Ho S-S (2016) Is overfeat useful for image-based surface defect classification tasks? IEEE International Conference on Image Processing (ICIP), pp. 749-753.

Cherian J, Luo J, Guo H, Ho S-S, Wisbrun R (2016) ParkGauge: Gauging the Occupancy of Parking Garages with Crowdsensed Parking Characteristics, 17th IEEE International Conference on Mobile Data Management (MDM), Porto, pp. 92-101.