Yi Tan

Department of Information Systems, Supply Chain, and Analytics College of Business, University of Alabama in Huntsville 301 Sparkman Drive, Huntsville, AL, 35899 Email: <u>yi.tan@uah.edu</u>; Phone: +1 (785) 865-6986

RESEARCH INTERESTS

Machine/Statistical learning, business analytics, empirical research in OM/Finance interface

LUCCATION	
UNIVERSITY OF KANSAS PhD in Business	May 2020
UNIVERSITY OF CINCINNATI MS in Business Analytics	December 2013
WUHAN UNIVERSITY BS in Statistics	August 2011
ACADEMIC EXPERIENCE	
UNIVERSITY OF ALABAMA IN HUNTSVILLE Assistant Professor of Management Science	2020 - present

RESEARCH

Publications

- **Tan, Y.**, Shenoy, P.P., Chan, M.W., and Romberg, P.M. (2016): On construction of hybrid logistic regression-naïve Bayes model for classification. In *Proceedings of Machine Learning Research: Conference on Probabilistic Graphical Models* (Vol. 52. pp. 523-534).
- **Tan, Y.**, and Shenoy, P.P. (2020): A bias-variance based heuristic for constructing a hybrid logistic regression-naive Bayes model for classification. *International Journal of Approximate Reasoning*, 117, 15-28.
- Tan, Y., Shenoy, P.P., Sherwood, B., Gaddy, M., Oehlert, M., and Shenoy, C. (2024): Bayesian network models for PTSD screening in veterans. *INFORMS Journal on Computing*, 36(2), 495-509.
- **Tan, Y.**, Shenoy, P. P., and Sherwood, B. (2024): A naïve Bayes regularized logistic regression model for low-dimensional classification. *International Journal of Approximate Reasoning*, 109239.
- Pham, H., **Tan, Y.**, Singh, T., Pavlopoulos V., and Patnayakuni, R. (2024): A multi-head attention-like feature selection approach for tabular data. *Knowledge-Based Systems*, 301, 112250.
- Geng, H., Wang, J., Su, Z., **Tan, Y.**, and Huang S. (2024): Analysts' initial converage and stock price. *International Review of Financial Analysis*, 103870.

Working Papers

- **Tan, Y.**, Xi, Y., and Arikan, M.: Partisan Inventory: CEO-US President political ideology alignment and Inventory Management. Reject and resubmit at *Manufacturing & Service Operations Management*.
- Lu, Y., **Tan, Y.**, and Wang, L., Flight Delay Dynamics: Unraveling the Impact of Airport-Network-Spilled Propagation on Airline On-Time Performance. Revise and resubmit at *Decision Support Systems*.
- Huang, W., Bao, Y., Wang, Z., **Tan, Y.**: Do More Services Lead to Better Buyer-supplier Relationships? The Unintended Consequence of Manufacturing Firms Providing Customer Solutions. Reject and resubmit at *Production and Operations Management*.
- Pham, H., Arwade, G., **Tan, Y.**, Bhatt, P., Pavlopoulos V.: Instance Selection via Weighted Dimensional Reduction and Adaptive Stratified Clustering for Balanced and Imbalanced Data. Under review at *Journal of Classification*.
- Pavlopoulos V., Pham, H., Bhatt, P., **Tan, Y.**, Patnayakuni, R.: decp: An R Package for Multiple Change Point Analysis of Multivariate Data for Changes in the Covariance Structure. Under review at *The R Journal*.
- **Tan, Y.**, Orman, W., Pavlopoulos, V., Pham, H., Patnayakuni, R., Weber, R., Mackenzie W., and Deverapalli, C.: A Dynamic Decision Support System for Real-Time Student Risk Identification via Bayesian Networks. Under review at *Journal of Database Management*.

Work in Progress

- Yu, X, **Tan, Y.**, Tang, Y., Bao, K: Collaboration Conundrum: Unraveling CEO Hubris and Alliance Formation.
- Yi, X., **Tan, Y.**: Living too close to work? The curvilinear effect of commuting time on job satisfaction.
- **Tan, Y.**, Gong K., Wang, Lu., Lu Y., Han Z., Zhou, X., Zhang, C., Zou, J.: Integrating Multimodal Data for Personalized Nutritional Recommendations in Chronic Disease Management.
- Pavlopoulos V., Killick R., Pham, H., Can E., Bhatt, P., **Tan, Y.**: Integrating ARIMA Models with Change Points Analysis via Rolling Mechanisms for Enhanced Time Series Forecasting.

PRESENTATIONS

Unraveling the impact of airport-network-spilled propagation on airline on-time performance Seattle, WA, October 2024 INFORMS Annual Meeting

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INFORMS Annual Meeting
INFORMS Annual Meeting
ecision
INFORMS Annual Meeting
POMS Annual Meeting

On construction of hybrid logistic regression-naive Bayes model for classification Lugano, Switzerland, September 2016 PGM 2016 Conference

A new model for evaluating NBA players San Francisco, CA, November 2014

INFORMS Annual Meeting

EXTERNAL FUNDING AND COLLABORATIONS

- Lockheed Martin Space Systems, Sunnyvale, CA
- Veterans Affairs Eastern Kansas Health Care System, Leavenworth, KS

TEACHING EXPERIENCE

Instructor at the University of Alabama in Huntsville

- MSC 641 Advanced Analytics
- MSC 450/550 Intro Analytics & Programming
- MSC 287 Business Statistics I

Instructor at the University of Kansas

• SCM 415 – Data Analysis and Forecasting

Guest Lecturer at the University of Kansas

• DSCI 920 – Probability for business research

WORKING EXPERIENCE

UC College of Pharmacy

Research Assistant

Cincinnati, Ohio February 2013 to March 2014

• Large-database manipulation, statistical analysis for projects in the areas of end stage renal disease, kidney dialysis, and transplantation.

AWARDS

John O. Tollefson Best Paper Award

University of Kansas, 2020

SOFTWARE EXPERTISE

• SAS, R, Python, MATLAB, SQL, STATA, HUGIN, GAMS, AMPL, Arena, Crystal Ball