Dr. Jidapa Kraisangka

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Research Interests

Probabilistic and decision-theoretic methods in decision support systems, Clinical decision support system, Data visualization

Professional Experience

Instructor, Faculty of Information and Communication Technology,
Mahidol University, Nakhon Pathom, Thailand 2010–present
Graduate Student Researcher, School of Computing and Information University of Pittsburgh,
Pittsburgh, PA, USA 2017-2019

Education

Doctor of Philosophy in Information Sciences, University of Pittsburgh, USA April 2019
Master of Science in Information Sciences, University of Pittsburgh, USA April 2013
Bachelor of Science in ICT Mahidol University,Thailand May 2010

Selected Honors

Mahidol University Instructor Development Scholarship 2013–2017
Faculty of ICT Instructor Development Scholarship 2011–2017

Selected Professional Service

Bayesian network model developer, Allegheny Health Network, PA 2017-2019

Selected Publications (Full Publication List: Google Scholar)

Kanwar, M. K., Gomberg-Maitland, M., Hoeper, M., Pausch, C., Pittow, D., Strange, G., Anderson, J. J., Zhao, C., Scott, J. V., Druzdzel, M.J., **Kraisangka**, J., Lohmueller, L., Antaki, J., Benza, R.L. (2020). Risk stratification in pulmonary arterial hypertension using Bayesian analysis. *European Respiratory Journal*. DOI: 10.1183/13993003.00008-2020

Kraisangka, J., Druzdzel, M. J., Lohmueller, L. C., Kanwar, M. K., Antaki, J. F., & Benza, R. L. (2019, June). Bayesian Network vs. Cox's Proportional Hazard Model of PAH Risk: A Comparison. In *Conference on Artificial Intelligence in Medicine in Europe* (pp. 139-149). Springer, Cham.

Kanwar, M., Raina, A., Lohmueller, L., **Kraisangka**, J., & Benza, R. (2019). The Use of Risk Assessment Tools and Prognostic Scores in Managing Patients with Pulmonary Arterial Hypertension. *Current hypertension reports*, 21(6), 45.

Kraisangka, J., & Druzdzel, M. J. (2018). A Bayesian network interpretation of the Cox's proportional hazard model. *International Journal of Approximate Reasoning*, 103, 195-211.
Benza, R. L., Lohmueller, L. C., Kraisangka, J., & Kanwar, M. (2018). Risk assessment in pulmonary arterial hypertension patients: the long and short of it. *Advances in Pulmonary Hypertension*, 16(3), 125-135.

Kraisangka, J., Druzdzel, M. J., & Benza, R. (2016). A Risk Calculator for the Pulmonary Arterial Hypertension Based on a Bayesian Network. In *Working Notes of the 13th Annual Bayesian Modeling Applications Workshop* (BMAW-2016), pages 1-6.

Kraisangka, J. & Druzdzel, M. J. (2016). Making large Cox's proportional hazard models tractable in Bayesian networks. In *Journal of Machine Learning Research (JMLR): Workshop and Conference Proceedings, Eight International Conference on Probabilistic Graphical Models (PGM 2016)*, Alessandro Antonucci, Giorgio Corani and Cassio Polpo de Campos (eds.), 52:252-263.

Kraisangka, J. & Druzdzel, M. J. (2014).Discrete Bayesian Network Interpretation of the Cox's Proportional Hazard Model. In *Probabilistic Graphical Models, Linda C. van der Gaag and Ad J. Feelders (eds.), Springer Lecture Notes in Computer Science*, Vol. 8754, pages 238-253, Springer International Publishing.