



Kuo-Chu Chang, PhD

Professor, Department of Systems Engineering and Operations Research
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Education

PhD, Electrical and Computer Engineering , University of Connecticut

Key Interests

Financial Engineering | Data Analytics | Machine Learning | Artificial Intelligence |
Sensor Data Fusion | MultiTarget Tracking | Decision Making | Bayesian Inference

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SELECT PUBLICATIONS

- › Z. Jia *et al.*, A machine learning integrated portfolio rebalance framework with risk-aversion adjustment. *Journal of Risk and financial Management* (2020).
- › K. Yang *et al.*, Heterogeneous and asynchronous information matrix fusion. *Journal of Advances in Information Fusion (JAIF)*, (2020).
- › S. Mori *et al.*, Three mathematical formalisms of multiple hypothesis tracking. *Journal of Advances in Information Fusion (JAIF)*, 14(2), 176-198 (2019).

Research Focus

My research focus includes applying data analytics, probabilistic reasoning and machine learning in various civilian and military applications including sensor data fusion, financial engineering, and decision making under uncertainty.

Current Projects

- Navy: Condition-based predictive maintenance for mission critical systems with probabilistic knowledge graph and deep learning
- Navy: Cyber resilience integrated security inspection system for condition-based maintenance
- Air Force: Decision under Uncertainty for Satellite Communication
- NSF: Collaborative Decision Processing for Dynamic Spectrum Access in Programmable Wireless Networks