

Data Lake, Conjoint Data Mining and Mobile Enabled Cognitive Decision Support Systems

Logistics Research Group, UNSW@ADFA

The Logistics Research Group is enriched by multi-disciplinary, inter-disciplinary and trans-disciplinary research methodologies and focuses on the key areas identified by the UNSW 2025 Strategy, ARC and CRC. Its aim is to embrace social-economic growth, prosperity, business sustainability and 4th Industrial revolution through integration and synthesis of multidiscipline knowledge, theory and methods, and it is making unique contribution not only to new emerging technologies but also government, industry, and small-medium enterprises, evidenced by its sustained research contracts in the last 20 yrs.

The capability includes:

1. **Heterogeneous Systems Integration and conjoint data mining** from multiple information sources
2. **Spatial Situation Awareness** with End-to-End Visibility enables track and trace Financial Accountability.
3. **Cognitive Decision Support** leading to minimum training and maximum automation.
4. **Special skills in Data Lack**, micro-service, Docker and container, private block chain and Elastic Search of heterogeneous data sources
5. **Conjoint Data mining**, predictive analytics, ontology and semantics reasoning.
6. **IoT and Mobile Edge Computing** for data supply chain and BI solutions.



We are proud to have researchers and graduates of various cultures, from different disciplines and countries - a microcosm of modern group, representing a diverse yet homogeneous community that displays extraordinary vitality and dynamism.

We focus on applied research and develop advanced solutions using enabling technologies.

