Biography
Yuan-Fang Li is a Senior Lecturer in the Faculty of Information Technology, Monash University.

Related Links:
Yuan Fang Li's research homepage

Qualifications

Research output
Understanding and Improving ontology reasoning efficiency through learning and ranking

Vector and line quantization for billion-scale similarity search on GPUs

Footprints of fitness functions in Search-Based Software Testing

RobustiQ: a robust ANN search method for billion-scale similarity search on GPUs

Simulating exploration versus exploitation in agent foraging under different environment uncertainties

Sip4J: statically inferring access permission contracts for parallelising sequential Java programs

Predicting reasoner performance on ABox intensive OWL 2 EL ontologies

Automating reading comprehension by generating question and answer pairs
The ubiquitous semantic web: Promises, progress and challenges

BOWL: augmenting the Semantic Web with beliefs

Capturing researcher expertise through MeSH classification

Context-driven concept search across web ontologies using keyword queries

Event and strategy analytics

FFD-index: An efficient indexing scheme for star subgraph matching on large RDF graphs

Grass: An efficient method for RDF subgraph matching

Observation, communication and intelligence in agent-based systems

R²O²: An efficient ranking-based reasoner for OWL ontologies

A meta-reasoner to rule them all: Automated selection of OWL reasoners based on efficiency

Event analytics

How long will it take? Accurate prediction of ontology reasoning performance
The mobile semantic web

The ubiquitous semantic web: Promises, progress and challenges

Towards a consistent feature model using OWL

Two decades of Web application testing: A survey of recent advances

An ontology-centric architecture for extensible scientific data management systems

Enriching concept search across semantic web ontologies

Visualization of large ontologies with landmarks

A rigorous characterization of classification performance: A tale of four reasoners

Knowledge enrichment analysis for human tissue-specific genes uncover new biological insights

Predicting reasoning performance using ontology metrics

Integrating software engineering data using semantic web technologies

Using semantic web technologies to build a community-driven knowledge curation platform for the skeletal dysplasia domain
Scale-out RDF molecule store for efficient, scalable data integration and querying

Discovering anomalies in semantic web rules

Measuring design complexity of semantic web ontologies

PODD - Towards an extensible, domain-agnostic scientific data management system

PODD: An ontology-driven data repository for collaborative phenomics research

Proceedings of the ACM International Conference on Digital Libraries: Message from the program chairs

Towards a semantic & domain-agnostic scientific data management system

Verifying semistructured data normalization using SWRL

An integrated formal approach to semantic work environments design

Correctness criteria for normalization of semistructured data

Enhancing semantic web services with inheritance

Scalable semantics - The silver lining of cloud computing

Extended abstract: Towards verifying semistructured data
Belief-augmented OWL (BOWL) - Engineering the semantic web with beliefs

Verifying feature models using OWL

A Z approach in validating ORA-SS data models

Reasoning about ORA-SS data models using the semantic web

Research into verifying semistructured data

Semantic web languages - Towards an institutional perspective
Lucanu, D., Li, Y-F. & Dong, J. S., 2006, Algebra, Meaning, and Computation: Essays Dedicated to Joseph A. Goguen on 
the Occasion of His 65th Birthday. Futatsugi, K., Jouannaud, J-P. & Meseguer, J. (eds.). Berlin Germany: Springer-Verlag 

Validating semistructured data using OWL

Institution morphisms for relating OWL and Z
Lucanu, D., Li, Y. F. & Dong, J. S., 1 Dec 2005, 17th International Conference on Software Engineering and Knowledge 

TCOZ approach to OWL-s process model design
Wang, H., Sun, J., Dong, J. S. & Li, Y. F., 1 Dec 2005, 17th International Conference on Software Engineering and 

A tools environment for developing and reasoning about ontologies

Formal semantics and verification for feature modeling
303 - 312 10 p.

Soundness proof of Z semantics of OWL using institutions
Lucanu, D., Li, Y-F. & Dong, J. S., 2005, Proceedings of the Special Interest Tracks and Posters of the 14th International 
Verify feature models using Protege-OWL

Verifying OWL and ORL ontologies in PVS

Visualizing and simulating semantic web services ontologies

TCOZ approach to semantic web services design

A combined approach to checking web ontologies

Verifying DAML+OIL and beyond in Z/EVES

XML-based static type checking and dynamic visualization for TCOZ

Prizes
Kurzweil Best Paper Prize
Yuan-Fang Li (Recipient), 2017

President's Graduate Fellowship Scholarship
Yuan-Fang Li (Recipient), 2005

Singapore Millennium Foundation Scholarship
Yuan-Fang Li (Recipient), 2004