Qualifications
Computer Science, Doctor of Philosophy, National University of Singapore
Award Date: 18 Dec 2006
Computer Science, Bachelor of Computing (Honours), National University of Singapore
Award Date: 7 Aug 2002

Research output
Paraphrasing techniques for maritime QA system

Semisupervised network embedding with differentiable deep quantization

Generalized pyramid co-attention with learnable aggregation net for video question answering

Multi-level, multi-modal interactions for visual question answering over text in images

Combining cross-modal knowledge transfer and semi-supervised learning for speech emotion recognition

Boosting house price predictions using geo-spatial network embedding

Multimodal feature-wise co-attention method for visual question answering

ANEMONE: graph anomaly detection with multi-scale contrastive learning

Adaptive knowledge-enhanced Bayesian meta-learning for few-shot event detection
Code2Que: a tool for improving question titles from mined code snippets in stack overflow

Curriculum-meta learning for order-robust continual relation extraction

Exploiting scene graphs for Human-Object Interaction detection

Improving numerical reasoning skills in the modular approach for complex question answering on text

Key factors influencing retail store expansion decisions: case study of combining evidence- and data-driven approach

Multi-scale contrastive siamese networks for self-supervised graph representation learning

OntoSP: ONTOlogy-based Semantic-aware Partitioning on RDF graphs

Toward the automated construction of probabilistic knowledge graphs for the maritime domain

Towards balanced defect prediction with better information propagation

XL-Sum: large-scale multilingual abstractive summarization for 44 languages

Less is more: data-efficient complex question answering over knowledge bases

MedGraph: structural and temporal representation learning of electronic medical records
Towards meta-reasoning for ontologies: a roadmap

Understanding and improving ontology reasoning efficiency through learning and ranking

OntoPlot: a novel visualisation for non-hierarchical associations in large ontologies

A general-purpose visual query language for knowledge graphs with bidirectional transformations

Few-shot complex knowledge base question answering via meta reinforcement learning

Gaussian embedding of large-scale attributed graphs

Generating question titles for Stack Overflow from mined code snippets

Knowledge-enriched, type-constrained and grammar-guided question generation over knowledge bases

Learning from the scene and borrowing from the rich: tackling the long tail in scene graph generation

Retrieve, program, repeat: complex knowledge base question answering via alternate meta-learning

Robust Attribute and Structure preserving graph Embedding
SNEQ: semi-supervised attributed network embedding with attention-based quantisation

Towards generating thread-safe classes automatically

Understanding unnatural questions improves reasoning over text

Vocabulary matters: a simple yet effective approach to paragraph-level question generation

A survey on the use of access permission-based specifications for program verification

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

Difficulty-controllable multi-hop question generation from knowledge graphs

Footprints of fitness functions in Search-Based Software Testing

One network for multi-domains: domain adaptive hashing with intersectant generative adversarial networks

ParaQG: a system for generating questions and answers from paragraphs

Putting the horse before the cart: a generator-evaluator framework for question generation from text
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

Structured two-stream attention network for video question answering

Predicting reasoner performance on ABox intensive OWL 2 EL ontologies

Automating reading comprehension by generating question and answer pairs

Using knowledge graphs to explain entity co-occurrence in Twitter

BioVis Explorer: A visual guide for biological data visualization techniques

Extracting permission-based specifications from a sequential Java program

An information-theoretic predictive model for the accuracy of AI agents adapted from psychometrics

Analyzing the evolution of ontology versioning using metrics

ICECCS 2015 preface
A dynamic intelligence test framework for evaluating AI agents

Explicit query interpretation and diversification for context-driven concept search across ontologies

Factors of collective intelligence: How smart are agent collectives?

How can reasoner performance of ABox intensive ontologies be predicted?

Predicting energy consumption of ontology reasoning over mobile devices

Preface

The ubiquitous semantic web: Promises, progress and challenges

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

Towards a semantic & domain-agnostic scientific data management system

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

Validating semistructured data using OWL

Institution morphisms for relating OWL and Z

TCOZ approach to OWL-s process model design

A tools environment for developing and reasoning about ontologies

Formal semantics and verification for feature modeling

Soundness proof of Z semantics of OWL using institutions

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
Best Student Paper Award
Li, Yuan-Fang (Recipient), Jan 2020

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

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

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