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
Transferrable and differentiable discrete network embedding for multi-domains with hierarchical knowledge distillation

Label-Guided Generative Adversarial Network for realistic image synthesis

On robustness of prompt-based semantic parsing with large pre-trained language model: an empirical study on codex

State-aware compositional learning towards unbiased training for scene graph generation

Neural Topic Modeling with Deep Mutual Information Estimation

Multivariate time series forecasting with dynamic graph neural ODEs

Toward Graph Self-Supervised Learning With Contrastive Adjusted Zooming

KGVQL: a knowledge graph visual query language with bidirectional transformations

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

Benchmark construction and experimental evaluations for incoherent ontologies
**MonaGO: a novel gene ontology enrichment analysis visualisation system**

**Paraphrasing techniques for maritime QA system**

**Pretrained Language Model in Continual Learning: A Comparative Study**

**TCG-Event: Effective task conditioning for generation-based event extraction**

**Towards open-vocabulary scene graph generation with prompt-based finetuning**

**Towards relation extraction from speech**

**Semisupervised network embedding with differentiable deep quantization**

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

**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
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
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?

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

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