Raghava Mutharaju

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RESEARCH INTERESTS

- Large Scale Computing
- Ontology Reasoning
- Knowledge Representation
- RDF Query Processing
- Semantic Web Applications
- Knowledge Graph
- Big Data

EDUCATION

WRIGHT STATE UNIVERSITY
PhD in Computer Science
May 2016 | Dayton, OH, USA

MNNIT
Motilal Nehru National Institute of Technology
M.Tech in Computer Science
June 2006 | Allahabad, India

JNTU
Jawaharlal Nehru Technological University
B.Tech in Computer Science
May 2004 | Hyderabad, India

SCHOLARLY ACTIVITIES

- Published 20+ research papers
- 180+ citations
- Co-organized tutorials at IJCAI 2016, AAAI 2015 and ISWC 2014
- Workshop co-chair at ISWC 2015
- Reviewer at ESWC, ISWC, KR, WWW, ECAI, JELIA

TECHNICAL SKILLS

Programming Languages
Java, Scala, C, C++
Semantic Technologies
OWL, RDF, SPARQL
Other Technologies
XML, SQL
Distributed Frameworks
Hadoop, Spark
NoSQL Stores
Redis, MongoDB, Neo4j, HBase
CMS: Drupal 7.x

INDUSTRY EXPERIENCE

IBM T.J. WATSON RESEARCH CENTER | Research Intern
Jun 2015 - Aug 2015 | NY, USA

IBM RESEARCH | Research Intern
Jun 2013 - Aug 2013 | Dublin, Ireland

ALCATEL-LUCENT BELL LABS | Research Intern
Jun 2012 - Aug 2012 | Dublin, Ireland

XEROX RESEARCH CENTER | Research Intern
Jun 2011 - Aug 2011 | NY, USA

COMPLEXIBLE INC. | Research Intern
Jun 2010 - Aug 2010 | Boston, USA

CA TECHNOLOGIES | Software Engineer
Aug 2006 - Dec 2008 | Hyderabad, India

RESEARCH PROJECTS

DISTRIBUTED ONTOLOGY REASONING
Explored different ontology partitioning strategies, distributed frameworks and paradigms with the goal of building a scalable and efficient ontology reasoner.

SCALABLE RDF QUERY PROCESSING
Developed DSparq, a distributed and scalable RDF query engine. RDF graph is vertex partitioned. Query patterns are analyzed so that they can be pipelined.

TEMPORAL CONSISTENCY CHECKING IN WORKFLOWS
Temporal model was developed in OWL and SWRL rules. Explanations (justifications) were generated for the detected inconsistencies.

SITUATIONAL UNDERSTANDING FROM SOCIAL DATA
Built an ontology for *Protests* based on tweets, Wikipedia and news articles. Developed REST services backed by a reasoner to find correlations among tweets.

AWARDS AND RECOGNITION

2015 Invited to present at the Cloud workshop organized by IBM T.J. Watson
2015 Selected to participate in the NSF-funded Data Science Workshop
2015 Awarded Amazon AWS Research grant for a period of 2 years
2015 Awarded Microsoft Azure Research grant for a period of 1.5 year
2014 Article appeared on the news of University of Huddersfield and WSU
2014 Travel awards for ISWC (2015, 2014, 2012), AAAI 2015, RR 2012, DL 2010

LINKS

Github: https://github.com/raghavam
Google Scholar: https://goo.gl/muzqYd
LinkedIn: https://www.linkedin.com/in/raghavamutharaju
Twitter: https://twitter.com/mraghava