Dong Yuan

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Education

2015.09-2018.06	**Master in Computer Science**, *Tsinghua University, Beijing, China.*
2010.09-2014.06	**Bachelor in Software Engineering**, *Tongji University, Shanghai, China.*
2013.03-2013.08	**Exchange Student**, *Karlsruhe Institute of Technology, Karlsruhe, Germany.*

Interests

Machine Learning and Security, Privacy and Security in Crowdsourcing

Publications

CIKM 2017	**Sybil Defence in Crowdsourcing Platforms.** **Dong Yuan**, Guoliang Li, Qi Li, Yudian Zheng.
TMC (Submitted)	**PriRadar: A Privacy-Preserving Framework for Spatial Crowdsourcing.** **Dong Yuan**, Qi Li, Guoliang Li, Kui Ren.

Internship

2017.06-2017.08	**Intern**, *Wechat Group, Tencent*, Guangzhou, China.

Project Experiences

2017.06-2017.08 Malicious Registration Detection in Social Network, Scala.

Leverage unsupervised learning methods to detect malicious Wechat registrations.
- Measure the similarity between registrations with features and anomalies extracted from registration data, e.g., IP, phone number, nickname.
- Devise and implement scalable clustering algorithms to discover the campaigns.
- Detected millions of malicious registrations with precision around 97%.

2017.04-2017.05 PostgreSQL: GiST API Advancement, C.
- Implement and benchmark the overlap optimization of RR*-Tree to GiST, etc.

2016.05-2017.05 Verifiable Multi-dimension Range Query on Encrypted Data, leader.
- Design grid based keywords extraction method to support multi-dimension range query in encrypted data on PB-Tree.
- Design protocol to verify the correctness and integrity of the query results.

2016.05-2016.11 Sybil Accounts Detection in ChinaCrowds, C++.
- Investigate and implement the quality control method.
- Design and implement algorithm to filter sybil accounts.

2015.09-2015.11 Privacy Protection for Spatial Crowdsourcing, C++.
- Design grid based algorithm to protect the location privacy of worker and task.
- Design task assignment algorithm base on grid based algorithm.

Awards and Scholarships

2016	**Second-class Scholarship**, *Tsinghua University*
2011, 2012	**National Endeavor Fellowship**, *Tongji University*
2011, 2012	**Third-class and Second-class Scholarships**, *Tongji University*

Skills & Others

Programming	**C++, Scala, Python**, *Go, Spark, Linux.*
English	**CET-6**, *fluent reading and communication.*
German	**A2**, *basic reading and communication.*
Others	Big Data & Cloud Security TA (2017), JAVA TA (2012).