Xinyi Chen

Shanghai Jiao Tong University
Computer Science
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Education

Shanghai Jiao Tong University, September 2015-June 2019(expected)

Major: Computer Science

Interest: Database, computer network , distributed system

GPA:3.78/4(overall)

Publications

Y.Lin,**X.Chen**,X.Gao,G.Chen,**" R^2-Tree:An Efficient Indexing Scheme for Server-Centric Data Center Network"**, accepted by *International Conference on Database and Expert Systems Applications (DEXA)*,2018

L.Hui, S.Wang, **X.Chen**,Y.Zhang, S.Davidson, B.Loo, W.Zhou, C.Chen **"P3log: Provenance for Probabilistic Programming"**, submitted to *The Conference on Innovative Data Systems Research (CIDR)*,2019

Projects

Research in **Database** July 2018-present
Supervisors:**Professor Boon Thau Loo**
Research Center:**Distributed System Laboratory**, The university of Pennsylvania
data provenance in probabilistic database

Project Member

. Propose data provenance in probabilistic database

. Design an unified language called P3log(based on Datalog)

. Use this to help debug in network or machine learning

. Submit a paper to CIDR 2019.

Research in **Data Management** March 2017-November 2017
Supervisors:**Ph.D. Xiaofeng Gao**
Research Center:**Advanced Network Laboratory**, SJTU
An Efficient Indexing Scheme for Server-Centric Data Center Network

project Member

. Proposed a general definition of server-centric data center topology

. Give an two-layer indexing scheme which can be built on all kinds of server-centric data centers and can handle multidimensional data.

. Finish the implementation of the indexing scheme on 4 kinds of server-centric data centers.

Research in **software-defined network** November 2017-June 2018
Supervisors:**Ph.D.Xiaofeng Gao**
Research Center:**Advanced Network Laboratory**, SJTU
Reinforcement Learning in DCN routing

Project Leader

. Use Reinforcement learning in routing problem.

. Use software-defined network(SDN) controller to control the whole data center network.