Tianyi Chen

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Education

Boston University / PhD in Computer Science, *Advisor: Charalampos Tsourakakis*
09 2019 - 12 2023, Boston, USA

Boston University / MS in Computer Science
09 2017 - 12 2018, Boston, USA

Xi'an Jiaotong University / BS in Software Engineering
09 2013 - 06 2017, Xi'an China

Publications

Tianyi Chen, Brian Matejek, Michael Mitzenmacher, Charalampos E. Tsourakakis, "Algorithmic Tools for Understanding the Motif Structure of Networks", *EC*ML PKDD 2022

Tianyi Chen, Charalampos E. Tsourakakis, "AntiBenford Subgraphs: Unsupervised Anomaly Detection in Financial Networks", *KDD 2022*.

Tianyi Chen, Francesco Bonchi, David Garcia-Soriano, Atsushi Miyauchi, Charalampos E. Tsourakakis, "Dense and well-connected subgraph detection in dual networks", *SDM 2022*.

Charalampos E. Tsourakakis, Tianyi Chen, Naonori Kakimura, Jakub Pachocki, "Novel Dense Subgraph Discovery Primitives: Risk Aversion and Exclusion Queries", *ECML PKDD 2019*.

Ming Fan, Jun Liu, Xiapu Luo, Kai Chen, Tianyi Chen, Zhenzhou Tian, Xiaodong Zhang, Qinghua Zheng, Ting Liu, "Frequent Subgraph based Familial Classification of Android Malware", *ISSRE 2016*, ***BEST RESEARCH PAPER AWARD***.

Experience

Twitter / MLE Intern
06 2022 - 08 2022, DisCo, Relevance Platform - Representation.
Improve tweet representation learning with user side information.

Google / SWE Intern
05 2021 - 08 2021, GCP, Binary Evaluation.
GoogleSQL rule generation for malware detection using sequential pattern mining.

Google / SWE Intern
06 2020 - 08 2020, Ads, Botnets detection.
Botnets detection using Graph Convolutional Network (GCN).

Google / SWE Intern
05 2019 - 08 2019, Ecosystem, Marmot.
Android Malware Detection by LSTM-based Sequential Trace Analysis.

Harvard University / Research Assistant
01 2019 - 05 2019, School of SEAS, Computational Material Science Department.
Functional Object-Oriented Graph Automation platform with Neo4J.

Skills

C++, Python, Java, HTML/CSS, JavaScript, Tensorflow, SQL, Git, MapReduce