XI CHEN

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EDUCATION

University of Massachusetts, Amherst **2019.9 - present**
MS/PhD student in Computer Science
Research Area: Machine Learning for Social Science

Central South University **2014.9 - 2018.6**
Bachelor Degree of Engineering
Department: Computer Science

EXPERIENCE

University of Massachusetts, Amherst **2019.9 - present**
Developing the largest dataset of annotated multi-lingual news article pairs.
Inferenced Causality in social feedback series with Generalized Linear Mixed Model.

Institute for Artificial Intelligence, Tsinghua University **2018.3 - 2018.9**
Traced heterogeneous science funding and corresponding scholars.

Central South University **2016.3 - 2017.7**
Devised robust and efficient communication for mobile body area network.
Devised epidemic routing for vehicular networks with taxi trajectory.
Devised adaptive energy equilibrium for wireless sensor network.

PROJECT

Agenda-setting

- Embeded multi-lingual news articles with sentence-bert neural network and ridge regression.
- Extracted name entities with Spacy and Polyglot; bridged multiligual name entities through Wikipedia concepts.
- Query, filter, and refine similar news article pairs in the large database based on similarity evaluation.
- Develop an integrated survey platform for annotators to label and discuss.
- Establish a comprehensive and detail-specificed sets of Codebook, Gold-standard examples and survey with rounds of test, calibration and user feedback.
- Tune query model, evaluate annotator performance and detect behavior (break, cheat or pretend to work) based on statistic analysis of group agreement and individual action series.

PUBLICATION

Multilingual Document-level Similarity
Xi Chen, Ali Zeynali, Chico Camargo, Fabian Flock, Devin Gaffney, Przemyslaw Grabowicz, Scott Hale, David Jurgens, Mattia Samory. Semeval, 2021.

Cross Layer Design for Optimizing Transmission Reliability, Energy Efficiency, and Lifetime in Body Sensor Networks
Xi Chen, YiXuan Xu, Anfeng Liu. Sensors, 2017.

Dynamic power management and adaptive packet size selection for IoT in e-Healthcare
Xi Chen, Ming Ma, Anfeng Liu. Computers & Electrical Engineering, 2017.

A Latency and Coverage Optimized Data Collection Scheme for Smart Cities Based on Vehicular Ad-hoc Networks
Yixuan Xu, **Xi Chen**, Anfeng Liu, Chunhua Hu. Sensors, 2017.

SKILL

PhD Courses: Machine Learning, Optimization, Algorithm, Probablistic Graph Model, Natural Language Processing, Stochastic Calculus (audit)
Programming Language: Python, C/C++, R, Java, SQL, Linux, Matlab, Assembly Language
Framework: Experienced in Pytorch and Tensorflow

HONOR

Nomination for Chinese Exceptional Student (1/6500 ISchool undergrads and grads), 2018.
Ranked global Top50 of Autochess players