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 multi-lingual news article pairs with statistical active learning framework.
    Inferred Causality in social feedback series with Generalized Linear Mixed Model.

Institute for Artificial Intelligence, Tsinghua University   **2018.3 - 2018.9**
    Automatically traced heterogeneous science funding and corresponding scholars with name disambiguation.

Central South University   **2016.3 - 2017.7**
    Devised robust and efficient schemes for mobile body network, vehicular network, and 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 based on classifiers with similarity evaluation.
- Tuned 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.
- Developed an integrated survey platform for annotators to label and discuss.
- Establish a comprehensive and detail-specified sets of Codebook, Gold-standard examples and survey with rounds of test, calibration and user feedback.

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.

Dynamic power management and adaptive packet size selection for IoT in e-Healthcare
Xi Chen, Ming Ma, Anfeng Liu. Computers & Electrical Engineering, 2018.

Cross Layer Design for Optimizing Transmission Reliability, Energy Efficiency, and Lifetime in Body Sensor Networks
Xi Chen, YiXuan Xu, Anfeng Liu. Sensors, 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 (50/millions)