Dong Wang

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Present

Duke University
Postdoctoral Researcher, Advisor: Lawrence Carin, 09/2017 – Present.

Education

Tsinghua University
Ph.D., Computer Science, Advisor: Jian Li, 08/2012 – 07/2017.
China University of Mining and Technology
B.E., Computer Science, 08/2008 – 07/2012.

Awards and Fellowships

Competitions
- No.3 among 1956 teams, Travel Time Estimation Competition (DataCastle 2017, http://www.pkbigdata.com/)
- No.2 among 1648 teams, Supply-demand Prediction Competition for Online Car-hailing Service (Di-tech Algorithm Competition, 2016)
- The Most Potential Prize, Di-tech Algorithm Competition, 2016
- Winning prize, National Information Security Competition, 2010
- The second prize, Subei Math Model Competition, 2010

Scholarship
- The third prize scholarship, Tsinghua University, 2012-2013
- The social work scholarship, Tsinghua University, 2012-2013
- The first prize scholarship, China University of Mining and Technology, for three times, 2009 - 2012

Research Experience

Information Initiative at Duke (iiD) 09/2017 – Present
Postdoctoral Researcher, Advisor: Prof. Lawrence Carin
   i) Developing deep generative models for computer vision, including generaive adversarial networks and variational autoencoders
   ii) Developing deep learning models for spatio-temporal data.

IIIS at Tsinghua University 08/2012 – 07/2017
Research Assistant. Advisor: Prof. Jian Li
   Machine learning and deep learning algorithms, and their application in massive spatio-temporal traffic data

Didi Chuxing, Research Lab 9/2016 – 01/2016
Algorithm Design Intern, Advisor: Prof. Jieping Ye
   Supply-demand prediction of online car-hailing
     - Feature engineering of the model v1 (based on GBDT)
     - Design and develop the deep learning based model

Teaching Experience	**Mathematics for Computer Science** 2015 Fall Teaching Assistant with Prof. John Steinberg **Comprehensive Paper Training** Fall 2014 Teaching Assistant with Prof. Jian Li
Research Interests	Machine learning, deep learning algorithms and their applications in massive spatio-temporal data.
Skills	Machine Learning, Deep Learning (Keras, Tensorflow, Pytorch); Python
Publications	

Publications

- **When Will You Arrive? Estimating Travel Time Based on Recurrent Neural Networks**, **Dong Wang**, Junbo Zhang, Wei Cao, Jian Li, Yu Zheng. In Association for the Advancement of Artificial Intelligence (AAAI) 2018.

- **DeepSD: Supply-Demand Prediction for Online Car-hailing Services using Deep Neural Networks**, **Dong Wang**, Wei Cao, Jian Li, Jieping Ye. In International Conference on Data Engineering (ICDE) 2017.

- **Forecasting Delivery Amount with Attention based Model**, **Dong Wang**, Yaowu Zhang, Benyu Wang, Jing Jin, Jian Li. The Institute for Operations Research and the Management Sciences (INFORMS) 2017 (Poster).

- **ETCPS: An Effective and Scalable Traffic Condition Prediction System**, **Dong Wang**, Wei Cao, Mengwen Xu, Jian Li. In Database Systems for Advanced Applications (DASFAA) 2016.

- **Automatic User Identification across Heterogeneous Data Sources**, Wei Cao Zhengwei Wu, **Dong Wang**, Jian Li, Haishan Wu. In International Conference on Data Engineering (ICDE) 2016.

- **DESTPRE: A Data-Driven Approach to Destination Prediction**, Mengwen Xu, **Dong Wang**, Jian Li. In ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) 2016.

- **Learning and Prediction over Massive Spatio-temporal Traffic Data**, **Dong Wang**. (PhD dissertation)