

PI Biography: Feng Chen

Department of Computer Science
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Professional Preparation

Postdoctoral Researcher	Jan. 2013 - Dec. 2013	Carnegie Mellon University, Pennsylvania.
Ph.D. in Computer Science	Dec. 2012	Virginia Tech, Virginia.
M.S. in Computer Science	May 2004	Beihang University, Beijing, China.
B.S. in Computer Science	July 2001	Hunan University, Hunan, China.

Appointments

Assistant Professor	Jan. 2014 - present	University at Albany – SUNY.
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Representative Publications

- A. Liang Zhao*, Qian Sun* (co-first author), Jieping Ye, Feng Chen, Chang-Tien Lu, and Naren Ramakrishnan. Multi-task learning for spatio-temporal event forecasting. In *Proceedings of the 21st ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM KDD)*, 2015. (Accepted)
- B. Feng Chen and Daniel B. Neill, “Non-Parametric Scan Statistics for Event Detection and Forecasting in Heterogeneous Social Media Graphs”, In *Proceedings of the 20th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM KDD)*, pages 1166–1175, 2014.
- C. Po-Ta Chen, Feng Chen, and Sean Qian, “Road Traffic Congestion Monitoring in Social Media with Hinge-Loss Markov Random Fields”, In *Proceedings of the 14th IEEE International Conference on Data Mining (IEEE ICDM)*, pages 80–89, 2014.
- D. Feng Chen, Jing Dai, Bingsheng Wang, Sambit Sahu, Milind Naphade, and Chang-Tien Lu, “Activity Analysis Based on Low Sample Rate Smart Meters”, In *Proceedings of the 17th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM-KDD)*, pages 240–248, 2012.
- E. Feng Chen, Chang-Tien Lu, and Arnold P. Boedihardjo, “GLS-SOD: A Generalized Local Statistical Approach for Spatial Outlier Detection”, In *Proceedings of the 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM-KDD)*, pages 1069–1078, 2011.

Other Selected Publications

- A. Fang Jin, Rupinder Khandpur, Nathan Self, Edward Dougherty, Feng Chen, B. Aditya Prakash, and Naren Ramakrishnan, “Modeling Mass Protest Adoption in Social Network Communities using Geometric Brownian Motion”, In *Proceedings of the 20th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM KDD)*, pages 1660–1669, 2014.
- B. Yen-Cheng Lu, Feng Chen, Yang Chen, and Chang-Tien Lu, “Student-t Based Approach to Mixed-Type Anomaly Detection”, In *Proceedings of the 27th AAAI Conference on Artificial Intelligence (AAAI)*, pages 633–639, 2013.
- C. Xutong Liu, Feng Chen, and Chang-Tien Lu, “Robust Inference and Outlier Detection for Large Spatial Data Sets”, In *Proceedings of the 12th IEEE International Conference on Data Mining (IEEE ICDM)*, pages 469–478, 2012.

- D. Bingsheng Wang, Feng Chen, Haili Dong, Arnold Boedihardjo, and Chang-Tien Lu, Signal Disaggregation via Sparse Coding with Featured Discriminative Dictionary, In *Proceedings of the 12th IEEE International Conference on Data Mining (IEEE ICDM)*, pages 1134–1139, 2012.

Synergistic Activities

- Journal/Conference External Reviewer: TRB, IJCAI, CIKM, ACM-GIS, Information Science, TKDE, and Computer Magazine.
- Program Committee Member: IJCAI-13, UAI Bayesian Applications Workshop (BIBW-14), IEEE International Workshop on Trust, Security and Privacy for Big Data (TrustData 2014), Mobile Sensing, Mining and Visualization for Human Behavior Inference Workshop (MSMV-MBI-14), Digital Forensics Experiments and Results (DiFER-15), and IEEE International Workshop on Big Data in Computational Epidemiology (BDCE-15).
- Publication chair: ICTAI-6.

Grants, Awards and Honors

- Co-PI, National Science Foundation (NSF), “Connecting Idea Threads across Communities for Sustained Knowledge Building”, Duration: 09/2014 - 08/2018, Total award: \$1,342,537.
- PI, UAlbany University Research Awards Program, “Non-Parametric Graph Scan for Event Detection,” Duration: 06/2014 - 04/2015, Total award: \$3,324.
- University-PI, IARPA, “Early Model Based Event Recognition using Surrogates,” Duration: 04/2015 - 06/2016, Total award \$99,999.
- University-PI, IARPA, “Early Model Based Event Recognition using Surrogates,” Duration: 06/2014 - 04/2015, Total award: \$124,861.
- Co-PI (with Catherine Lawson, Jeong-Hyon Hwang, S. S. Ravi), US Department of Transportation, “Techniques for Information Extraction from Compressed GPS Traces,” Duration: 03/01/2014 - 02/28/2015, Total award: \$100,000.
- Department Nominations for IBM Ph.D. fellowship Awards, 2011, 2012.
- Student Travel Award, the International Conference on Data Mining (IEEE-ICDM), Brussels, Belgium, December 10-13, 2012.
- Student Travel Award, the 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM-KDD), San Diego, CA, August 21-24, 2011.
- 2nd Place Poster Prize in Security Category, National Academy of Engineering Grand Challenges Summit Contest, Mar. 2-3, Durham, NC, 2009.
- 2nd Place Research Poster Prize, Virginia Tech Northern Capital Region Graduate Research Symposium, Mar. 23-27, Falls Church, VA, 2009.
- Service Excellence Award as Publication Chair, IEEE International Conference on Tools with Artificial Intelligence (ICTAI), Nov. 13-15, Arlington, VA, 2006.

Recent Collaborators (2014 - present)

S. S. Ravi (University at Albany), Jeong-Hyon Hwang (University at Albany), Naren Ramakrishnan (Virginia Tech), Daniel B. Neill (Carnegie Mellon University), Sean Qian (Carnegie Mellon University), Catherine Lawson (University at Albany), Teresa Harrison (University at Albany), and Ozlem Uzuner (University at Albany).

Graduate Advisor: Chang-Tien Lu, Virginia Polytechnic Institute and State University.

Ph.D. Advisees: Baojian Zhou, Daniel S Hono, Adil Alim, Yan Hu, Rui Wang.