



We are Hiring! (5 New T/TT Positions in AI, Big Data, Cyber Physical Systems, and Cyber Security)

Overall

- **Strong enrollment growth: 2014 students** in Fall 2017 (1270 Bachelor's, 634 Master's, 110 Ph.D.)
- Over **\$4M per year in research expenditures** for the last 3 years
- **\$7.6M research grants** in FY17, growing from \$3.1M in FY16
- CSE faculty's **full papers in top conferences** (those listed in csrankings.org) since 2012: 9 SIGMOD, 14 VLDB, 9 KDD, 7 NIPS, 6 ICML, 23 AAI, 15 IJCAI, 13 CVPR, 13 ICCV, 4 ECCV, 3 USENIX ATC, 2 EuroSys, 1 FSE, 2 RTSS, 4 RECOMB, 2 INFOCOM
- Construction of the \$125-million, 220,000-sq. ft. **Science and Engineering Innovation and Research (SEIR) building** is expected to be completed in 2018. CSE research labs and lecture rooms will be strategically placed in SEIR and the other multidisciplinary building---the 2011-built, \$116-million, 234,000-sq. ft. Engineering Research Building (ERB).

Rankings

- UT-Arlington named **R1 university** by the Carnegie Classification of Institutions of Higher Education
- **National Rankings:** Computer Engineering #64, Computer Science #90 [U.S. News & World Report]
- Ranked by csrankings.org (by average 2016- 2017 publications, as of September 2017): #49 overall, #4 AI, #10 OS, #20 Databases, #20 High-Performance Computing, #21 Bioinformatics, #35 Security, #45 Machine Learning and Data Mining

Research Highlights

- **3 IEEE Fellows**
- 4 current NSF CAREER awardees, **6 NSF CAREER, 1 AFOSR YIP, and 1 NSF CRII** awardees since 2006
- 5 authors with **10,000+ citations**
- Author of one of the **most popular database textbooks**
- ACM SIGKDD doctoral dissertation award, ACM TOSEM distinguished referee, HP innovation research awards, ICDE 10-year best paper, Microsoft Research faculty summit speaker, Outstanding Associate Award of NIST, paper awards at ASE, APSys, CIDR, ICDM, ECMLPKDD, IUI, ISSRE, ISSTA, PPREW, PSIVT, SIGMOD, VLDB

Teaching and Student Achievements

- Recent graduates work at Amazon, Apple, Facebook, Google, HP, IBM, Intel, LinkedIn, Lockheed-Martin, Microsoft, NASA, Pivotal, Raytheon, Sabre, Salesforce, Teradata, Texas Instruments, Uber, and many other great companies
- Recent Ph.D. graduates secured **tenure-track faculty positions** at Colorado School of Mines, Kennesaw State University, NJIT, Texas State University, Univ. of Colorado at Denver, Univ. of Mississippi, Univ. of Texas Rio Grande Valley, **researcher positions** at HP Labs, Huawei, IBM Research India, QCRI, Visa Research, Walmart Labs, and **post-doctorate research positions** at Microsoft Research, Michigan, and Stony Brook University
- Successful launch of CSE **Senior Design industry sponsorship program** resulting in 12+ sponsored projects and over \$60,000 in funding since Spring 2016
- CSE student teams earn **hackathon awards** at Verizon's Hack Day, TAMU Hackathon, SASEhack
- **Best Student Paper Award** at IUI 2016
- First Runner-Up in the SIGMOD 2017 **Undergraduate Student Research Competition**

Service Highlights

- **General/Program Chairs** of SIGMOD, BIBM, ICPP, PerCom, DaWaK, DEBS, IPCCC
- **Chair of the Editor-in-Chief Search Committee** for IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)
- UTA designated a **Hispanic-Serving Institution**; 5th in the nation for undergraduate **diversity** [U.S. News & World Report]; No. 1 four-year college in Texas for **veterans** [Military Times' 2017 Best for Vets list]; 2nd lowest average **student debt** among U.S. universities [U.S. News & World Report]

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- Fan Guo, Yongkun Li, Yinlong Xu, Song Jiang, and John C. S. Lui. *SmartMD: A High Performance Deduplication Engine with Mixed Pages*. **USENIX ATC'17**.
- Yuanyuan Sun, Yu Hua, Song Jiang, Qiuyu Li, Shunde Cao, and Pengfei Zuo. *SmartCuckoo: A Fast and Cost-Efficient Hashing Index Scheme for Cloud Storage Systems*. **USENIX ATC'17**.
- Wei Chen, Jia Rao, and Xiaobo Zhou, Preemptive. *Low Latency Datacenter Scheduling via Lightweight Virtualization*. **USENIX ATC'17**.
- Wenrui Yan, Jie Yao, Qiang Cao, Hong Jiang, Changsheng Xie. *ROS: A Rack-based Optical Storage System with Inline Accessibility for Long-Term Data Preservation*. **EuroSys'17**.
- Yongli Cheng, Hong Jiang, Fang Wang, Yu Hua, Dan Feng. *BlitzG: Exploiting high-bandwidth networks for fast graph processing*. **INFOCOM'17**.
- Mahmoud Ashour, Jingyao Wang, Constantino Lagoa, Necdet Serhat Aybat, Hao Che. *Non-concave network utility maximization: A distributed optimization approach*. **INFOCOM'17**.
- Gensheng Zhang, Damian Jimenez, Chengkai Li. *Maverick: Discovering Exceptional Facts from Knowledge Graphs*. **SIGMOD'18**.
- Abolfazl Asudeh, Azade Nazi, Nan Zhang, Gautam Das. *Efficient Computation of Regret-Ratio Minimizing Set: A Compact Maxima Representative*. **SIGMOD'17**.
- Naeemul Hassan, Fatma Arslan, Chengkai Li, and Mark Tremayne. *Toward Automated Fact-Checking: Detecting Check-worthy Factual Claims by ClaimBuster*. **KDD'17**.
- Bin Gu, Guodong Liu, Heng Huang. *Groups-Keeping Solution Path Algorithm for Sparse Regression with Automatic Feature Grouping*. **KDD'17**.
- Jiang Ming, Dongpeng Xu, Yufei Jiang, Dinghao Wu. *BinSim: Trace-based Semantic Binary Diffing via System Call Sliced Segment Equivalence Checking*. **USENIX Security'17**.
- Dongpeng Xu, Jiang Ming, Dinghao Wu. *Cryptographic Function Detection in Obfuscated Binaries via Bit-precise Symbolic Loop Mapping*. **IEEE S&P (Oakland)'17**.
- Feiping Nie, Xiaoqian Wang, Heng Huang. *Learning A Structured Optimal Bipartite Graph for Co-Clustering*. **NIPS'17**.
- Xiaoqian Wang, Hong Chen, Dinggang Shen, Heng Huang. *Cognitive Impairment Prediction in Alzheimer's Disease with Regularized Modal Regression*. **NIPS'17**.
- Hong Chen, Xiaoqian Wang, Heng Huang. *Group Sparse Additive Machine*. **NIPS'17**.
- Xinliang Zhu, Jiawen Yao, Feiyun Zhu and Junzhou Huang. *WSISA: Making Survival Prediction from Whole Slide Pathology Images*. **CVPR'17**.
- Li Shen, Wei Liu, Junzhou Huang, Yugang Jiang and Shiqian Ma. *Adaptive Proximal Average Approximation for Composite Convex Minimization*. **AAAI'17**.
- Zhouyuan Huo and Heng Huang. *Asynchronous Mini-batch Gradient Descent with Variance Reduction for Non-Convex Optimization*. **AAAI'17**.
- Zheng Xu and Junzhou Huang. *A General Efficient Hyperparameter-free Algorithm for Convolutional Sparse Learning*. **AAAI'17**.
- Feiping Nie and Heng Huang. *Semi-Supervised Classifications via Elastic and Robust Embedding*. **AAAI'17**.
- Zhouyuan Huo and Heng Huang. *Video Recovery via New Sectional Trace Norm with Variation and Consistency Constraints*. **AAAI'17**.
- Hongchang Gao, Feiping Nie and Heng Huang. *Local Centroids Structured Non-negative Matrix Factorization*. **AAAI'17**.
- Feiping Nie, Xiaoqian Wang and Heng Huang. *Multiclass Capped p -Norm SVM for Robust Classifications*. **AAAI'17**.
- Wenhao Jiang, Cheng Deng, Wei Liu, Feiping Nie, Fu Korris, Heng Huang. *Theoretic Analysis and Extremely Easy Algorithms for Domain Adaptive Feature Learning*. **IJCAI'17**.
- Feiping Nie, Heng Huang, Zhouyuan Huo. *Joint Capped Norms Minimization for Robust Matrix Recovery*. **IJCAI'17**.
- Jie Xu, Cheng Deng, Xinbo Gao, Dinggang Shen, Heng Huang. *Predicting Alzheimer's Disease Cognitive Assessment via Robust Low-Rank Structured Sparse Model*. **IJCAI'17**.
- Jie Xu, Cheng Deng, Zhouyuan Huo, Xianglong Liu, Feiping Nie, Heng Huang. *Maximizing Multi-Class Margins for Supervised and Semi-Supervised Support Vector Machine*. **IJCAI'17**.
- Xiaoqian Wang, Jingwen Yan, Xiaohui Yao, Sungeun Kim, Kwangsik Nho, Shannon L. Risacher, Andrew J. Saykin, Li Shen, Heng Huang. *Longitudinal Genotype-Phenotype Association Study via Temporal Structure Auto-learning Predictive Model*. **RECOMB'17**.