PhD Openings in Deep Learning/Machine Learning/AI-Driven Intelligent Systems
Fall/Spring 2023

Position Information: <u>**immediate fill of Ph.D. positions for Fall/Spring 2023**</u> at the Center on Stochastic Modeling, Optimization, & Statistics (COSMOS) at the University of Texas at Arlington. Graduate students with <u>**strong quantitative background and programming skills**</u> are encouraged to apply. The research directions include **Advanced Analytics, Deep Learning**, **Machine Learning,** and **AI-driven Intelligent UAV-UGV Systems**.

If you are interested, please send your CV to **Dr. Shouyi Wang at <u>shouyiw@uta.edu</u>**. We will evaluate your CV and give feedback quickly. <u>**Accepted Ph.D. students will work with Dr. Wang and will be provided with full financial support for the entire PhD study**</u>. **Visiting Students/Scholars Positions** are also available in Deep Learning and Intelligent Systems.

Lab Information: The COSMOS Center is conducting world-leading research in Advanced Data Analytics, Machine Learning Research, Complex System Optimization & Modeling, Healthcare and Biomedical Informatics, and AI-driven Technologies. The lab has very strong connections to AI industry. The renowned research collaborators include *American Airlines, Apple, Foxconn, IBM, Facebook/Oculus, Samsung/Harman AI Group, and NVIDIA.*

The COSMOS Center PhD graduates are highly competitive in the US job market. Recent Ph.D. graduates of COSMOS Center obtained jobs at *American Airlines, United Airlines, UPS, CSX, AT&T, Alibaba/Seattle, Bank of America, BNSF, General Motors, etc. Our Ph.D. graduates also have immense opportunities to pursue academic careers.* Recent Ph.D. students obtained faculty positions at top schools, including *University of Illinois Chicago, Washington State University, Stevens Institute of Technology, University of Southern California, The State University of New York at Buffalo, Harbin Institute of Technology, etc.*

The Current Research Projects & Topics include:
- Deep Learning for drug discovery (e.g., protein, DNA/RNA, molecule deep learning in life science, sponsored by NSF & NIH)
- Deep Learning for medical imaging analytics (work with University of Washington)
- AI-Driven UAV-UGV Collaborative Smart Systems for Agriculture Applications (work with USDA)
- Probabilistic Deep Learning and Stochastic Optimization for Complex Systems Decision Analytics with Applications to Energy Systems and Smart Grids Operations Management (NSF)
- Interpretable Deep Learning/Machine Learning Research for Biomedical Data Mining & Knowledge Discovery
- Deep Learning for Satellite Imaging Analytics and Geographic Information Systems (USDA)

School Information: With more than **50,000** enrolled students, UTA is one of the largest public universities in the nation. According to 2022 U.S. News and World Report, UTA Engineering School is ranked #79 in the US. The Industrial, Manufacturing, & Systems Engineering (IMSE) Department is ranked #50 for Graduate Programs. With great resources and Texas State support, the IMSE department is one of the fastest growing programs in the US with more than 500 graduate students. UTA is one of the 146 Carnegie R-1 Doctoral Universities in the US with highest research activities.

DFW/Arlington Area: Located at the US's 4th largest metropolitan area (Dallas/Fort Worth Area), the COSMOS Center at UTA is conducting world-leading research projects and has strong industry support and collaborations.