

*The College of Computing and the College of Engineering
are pleased to present a lecture by faculty candidate*



Songtao Lu

Monday, March 2, 2020

3:00 pm Chem Sci 102

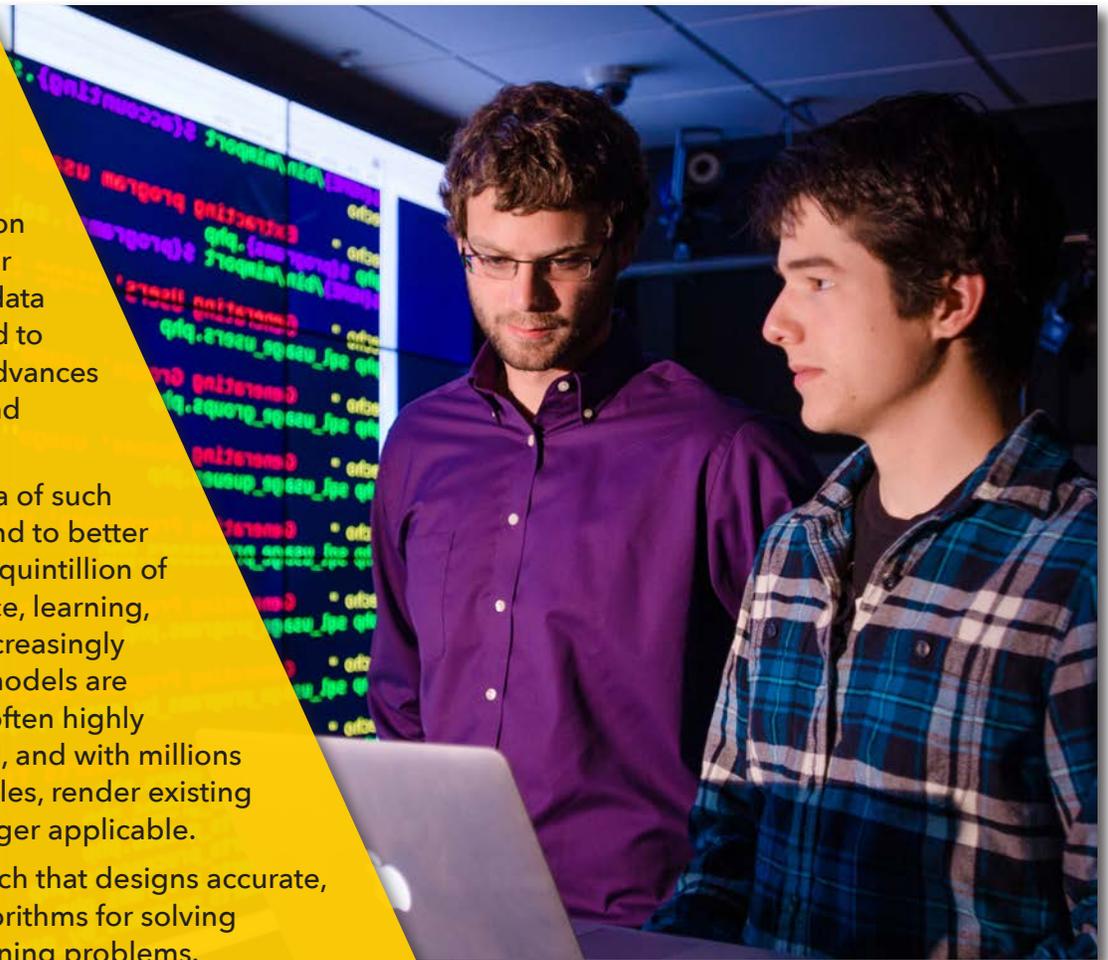
Nonconvex Min-Max Optimization for Machine Learning

We live in an era of data explosion. Rapid advances in sensor, communication, and storage technologies have made data acquisition more ubiquitous than ever before. Making sense of data at such a scale is expected to bring ground-breaking advances across many industries and disciplines.

To effectively handle data of such scale and complexity-- and to better extract information from quintillion of bytes of data for inference, learning, and decision-making--increasingly complex mathematical models are needed. These models, often highly nonconvex, unstructured, and with millions or even billions of variables, render existing solution methods no longer applicable.

Lu will present his research that designs accurate, scalable, and robust algorithms for solving nonconvex machine learning problems.

Songtao Lu is an AI resident at IBM Research AI, IBM Thomas J. Watson Research Center. His research interests include optimization, artificial intelligence, machine learning, and neural networks.



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