

报告题目： 杰出访问教授报告：Systems and ML at RISELab

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主办单位： 清华大学软件学院

简介： In this talk, I will present several of the projects we are developing at RISELab, a two-year-old lab at UC Berkeley that focuses on building platforms and algorithms for real-time intelligent decisions, decisions that are secure and explainable. These projects include both systems to better support machine learning (ML) workloads, and leveraging ML to build better systems. In the first category, I will present Ray, a general-purpose distributed system that provides both task-parallel and actor abstractions. Today, Ray employs the most complete ecosystem of distributed ML libraries. In the second category, I will present Balsa, a system that learns a database query optimizer from scratch, and NeuroCuts, a tool that generates decision trees for network packet classifiers.

教授简介： Ion Stoica is a Professor in the EECS Department at the University of California at Berkeley, and the Director of RISELab (<https://rise.cs.berkeley.edu/>). He is currently doing research on cloud computing and AI systems. Past work includes Apache Spark, Apache Mesos, Tachyon, Chord DHT, and Dynamic Packet State (DPS). He is an ACM Fellow, an honorary member of Romanian Academy, and has received numerous awards, including the Mark Weiser Award (2019), SIGOPS Hall of Fame Award (2015), and several "Test of Time" awards. He also co-founded three companies, Anyscale (2019), Databricks (2013) and Conviva (2006).