



Mini-conference on Probability & Computing

Bahman 7th (student lectures):

Pairwise Independence and Universal Hash Functions, with Applications to Sampling with Fewer Random Bits and Data Streams

Sina Rezaie

Balanced Allocations (Power of Two Choices) and Cuckoo Hashing

Seyed Mohammad Hussein Kazemi

Bahman 8th (postdoc and faculty lectures):

Sample Complexity, VC Dimension, Rademacher Complexity, and Agnostic Learning

Farzad Aryan & Milad Barzegar

Power Laws and Related Distributions, Preferential Attachment

Ali Khezeli

These lectures are based on the last 4 chapters of the book "Probability and Computing" by Eli Upfal and Michael Mitzenmacher, which cover some advanced and modern topics. This event is the final part of the course "Probability and Computing" taught by Omid Etesami at the Fall 2023 semester at IPM.

IPM, Niavaran Building, Lecture Room 2

Time: 10:00 - 13:00, 14:00 - 17:00