

# Agenda for the AI-OR Workshop

All times in EST

## Day 1 - September 23, 2021

- **11:00am -- Welcome / Introductions** – 15 mins
- **11:15am -- Opening address:** Prof. Krishnan – 15 mins.
- **11:30 am -- Session 1 (Methods oriented)** - 150 mins  
Research at the intersection of OR & AI; review of key technological innovations
  - **11:30am -- Methods talks:** 60 mins (4 speakers)
    - [Stephen Wright](#), University of Wisconsin (continuous optimization)
    - [Anrea Lodi](#), Cornell Tech (discrete optimization)
    - [Katia Sycara](#), Carnegie Mellon University (multi-agent systems)
    - [Satinder Singh](#), University of Michigan (reinforcement learning, decision-making under uncertainty)
  - **12:30pm -- Break:** 10 mins (split into two short breaks of five mins each)
  - **12:40pm -- Moderated Q&A:** 20 mins
  - **1:00pm -- Parallel breakouts** -- 40 mins
  - **1:40pm -- Report back from breakouts** – 20 mins
- **2:00pm -- Lunch break** – 60 mins (late for East Coast, early for the West)
- **3:00pm -- Session 2 (Applications oriented session)** - 150 mins  
Choose application domains at the intersection of OR and AI; review of key emerging application areas enabled by the technological innovations; mix of areas that are OR strengths and AI strengths
  - **3:00pm -- Applications talks** – 60 mins 4 speakers
    - [David Simchi-Levi](#), MIT (supply chain)
    - [Ranga Nugehalli](#), UPS (Edelman winner – UPS)
    - [Robert Hampshire](#) (US Department of Transportation)
    - [Phebe Vayanos](#), University of Southern California (Data-driven decision-making for social impact)
  - **4:00pm -- Break:** 10 mins (split between two short breaks of five mins each)
  - **4:10pm -- Moderated Q&A** - 20 mins
  - **4:30pm -- Parallel breakouts** -- 40 mins
  - **5:10pm -- Report back from Breakouts** - 20 mins
- **5:30pm – Wrap up Day 1**

## Day 2 - September 24, 2021

- **11:00am -- Welcome / Quick start to Day 2** – 5 mins
- **11:05am -- Session 3 (Methods oriented)** - 135 mins FATE Session
  - **11:05am -- Methods talks:** 45 mins (3 speakers)
    - [John Dickerson](#), University of Maryland (fairness in machine learning and mechanism design)
    - [Subbarao \(Rao\) Kambhampati](#), Arizona State University (explainable plans / decisions)
    - [Aaron Roth](#), University of Pennsylvania (private data analysis, fairness in machine learning)
  - **11:50am -- Break:** 10 mins (split between two short breaks of 5 mins each)
  - **12:00pm -- Moderated Q&A:** 20 mins
  - **12:20pm -- Parallel breakouts** -- 40 mins
  - **1:00pm -- Report back from breakouts** – 20 mins
- **1:20pm -- Lunch break somewhere in between** – 60 mins (late for East Coast, early for the West)
- **2:20pm -- Session 4 (Applications oriented session)** - 135 mins Fairness
  - **2:20pm -- Applications talks** – 45 mins (3 speakers)
    - [Milind Tambe](#), Harvard University (AI for Social Good)

- [Cynthia Rudin](#), Duke University (Interpretable Machine Learning)
  - [Margret Bjarnadottir](#), University of Maryland
- 3:05pm -- Break: 10 mins (split between two short breaks of 5 mins each)
- 3:15pm-- Moderated Q&A - 20 mins
- 3:35pm -- Parallel breakouts -- 40 mins
- 4:15pm -- Report back from Breakouts - 20 mins
  
- **4:35pm -- Summary -- 55 mins**
  - Determine topics for deeper dives into: robustness, adversarial ML, compelling new applications, consumer behavior, causality + ML + optimization etc.
  - This would help set the stage for the next workshop where we have a rough sketch but we want input from the workshop 1 community to help further refine it.
  - We can also ask questions about the types of people to invite and engage for the next discussion given this first set of invitations are primarily to AI and OR methodologists.
  
- **5:30pm – End Day 2**