

KEYNOTE #3: Bistra Dilkina (University of South California):

Title: Artificial Intelligence for Wildlife Conservation

Abstract: Computational sustainability is a new interdisciplinary research focused on computational problems that arise in the quest for sustainable development. In this talk, I will focus on one such problem -- the goal of preserving biodiversity -- and show several ways in which different AI techniques such as discrete optimization for network design, machine learning and game theory have helped us tackle key challenging problems in this context. I will describe network design problems motivated by budget-constrained wildlife corridor conservation, as well as our system PAWS-ML for informing ranger patrol planning for anti-poaching efforts.