PSERC Power Systems Engineering Research Center

PSERC WEBINAR

Iterative Methods to Solve Otherwise-Intractable Grid Optimization Models

Alexandra Newman
Colorado School of Mines

Large-scale, complex optimization models arise in robust power systems operation and capacity expansion models. We examine effective solution techniques for optimal power flow considering contingencies and for capacity expansion to effect decision-making in the electricity sector; in each case, we present convincing numerical results for practical use.

SEPTEMBER 23, 2026 | **1:00-2:00 P.M. ET**

LINK TO WEBINAR

(10:00-11:00 A.M. PT)

Alexandra Newman is a professor in the department of mechanical engineering at the Colorado School of Mines. She earned her PhD in industrial engineering and operations research at the University of California Berkeley and specializes in deterministic optimization modeling. She received a 2010 Fulbright fellowship to work at the University of Chile and the 2013 INFORMS Prize for the Teaching of ORMS Practice. She belongs to the 2024 class of INFORMS fellows and serves as the PSERC site director for the Colorado School of Mines.