

JOINT MATHEMATICS COLLOQUIUM ICMAT-UAM-UC3M-UCM

BAYESIAN NETWORKS AND TEMPORAL DATA

SPEAKER: Concha Bielza (Department of Artificial Intelligence Technical University of Madrid)

DATE: Friday, 1 October 2021 - 11:30

VENUE: Aula Azul, ICMAT



ABSTRACT: This talk will describe how Bayesian network models can cope with temporal data. After a brief introduction to Bayesian networks in static domains, discrete-time versions will be presented, which include temporal nodes Bayesian networks, dynamic Bayesian networks and the popular hidden Markov models. The more recent continuous time Bayesian networks and their supervised classification counterparts, both in uni- and multi-dimensional settings, will be explained. Real cases from industry will be used for illustration purposes.









