

## Stochastic Dynamic Games

**Onésimo Hernández-Lerma**, Mathematics Department, CINVESTAVIPN, México City

This talk is an introduction to stochastic dynamic games and some of their applications. It includes cooperative and noncooperative games, and some important special cases such as compromise solutions, zerosum games, and games against nature (also known as minimax or worstcase control problems). It also includes recent results on the existence and characterizations of dynamic potential games. One of these characterizations is particularly interesting because it identifies a class of dynamic potential games in which Nash (or noncooperative) equilibria coincide with Pareto (or cooperative) equilibria. This latter fact is not very common.