

SELECTED FUNDED RESEARCH PROJECTS

A. T. Chronopoulos and D. Popescu (Department of Electrical Engineering, UTSA), 'Computationally Efficient Methods for Power Control in Wireless Systems', National Science Foundation, 9/1/03 - 8/31/2008.

Summary: The problem of power control has also been studied in the context of game theory. In one recent study, a noncooperative power control game is derived. The goal of each user in this game is to maximize its utility function. The solution of this game is the Nash equilibrium. We have studied game theory for the problem of load balancing in distributed systems. We plan to draw on our expertise to obtain computational efficient solution to the game theory approach of this power control problem.