MSc thesis defense presentation

Ανδρ■ας Μ■ντης defends his MSc thesis

Date:	Τετ■ρτη, 22 Νο■ 2017
■ρα:	15:00
Location:	Σχολ■ Ηλεκτρολ■γων Μηχανικ■ν και Μηχανικ■ν Υπολογιστ■ν, ΕΜΠ (παλαι■ κτ■ρια), 1.1.31
Thesis title:	Change averse equilibria in congestion games
Committee:	• Δημ■τρης Φωτ■κης • Αριστε■δης Παγουρτζ■ς • Ευστ■θιος Ζ■χος

Thesis abstract

We introduce a new model in Congestion Games, where players choose their strategy according to the new cost they incur, as well as the difference between their current state and the new state they are considering. The latter part of the decision-making process is based on the assumption that players who are considering a significant change are less prone to take it, than they do on a similar choice. This model has analogies with ■–approximate equilibria. We can easily see that this new model provides a richer set of equilibria than approximate equilibria. Christodoulou et al. prove that as far as Linear Congestion Games are concerned, we have good bounds on the Price of Anarchy. We prove that similar results are true in our case. We also prove that players do actually converge on such an equilibrium and relatively quickly.