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## Selfish Routing Price Anarchy Roughgarden

**selfish routing and the price of anarchy - computer science** - due to selfish routing is not too large. problem: a nash flow can cost far more than an optimal flow. solutions: • compare nash to opt flow with extra traffic • restrict class of allowable edge latency functions, obtain bounded price of anarchy  $\leq 1.5$   $\in \mathbb{R}$

**selfish routing - price of anarchy and coordination mechanisms** - selfish routing price of anarchy and coordination mechanisms kurt mehlhorn joint work with spyros angelopoulos, giorgos christodoulou, and evangelia pyrga max planck institute for informatics and saarland university september 20, 2010 **the price of anarchy of selfish routing - staffience.uu** - price of anarchy the price of anarchy of a non-atomic selfish routing game is the ratio between the cost of an equilibrium flow and that of an optimal flow.  $p(g;r;c) = c(f) / c(f^*)$  if  $f$  denotes the equilibrium flow, and  $f^*$  denotes the optimal flow. what is the potential function? 1 very large number of players, each controlling a negligible fraction of ... **selfish routing and the price of anarchy - cornell university** - selfish routing and the price of anarchy tim roughgarden cornell university includes joint work with Éva tardos. 2 traffic in congested networks the model: • a directed graph  $G = (V, E)$  ... - confronted w/two routes, selfish users overcongest one of them • corollary  $\Rightarrow$  that's all, folks! **when is selfish routing bad? the price of anarchy in light ...** - when is selfish routing bad? 3 o d c1,,x"=  $\gg 1 + 1/2 \sin(\log x) \dots x^2 c2,, x"= 2 c3,,x"=  $\gg 1 + 1/2 \cos(\log x) \dots x^2$  only if the traffic falls in an intermediate regime can there be a substantial gap between the price of anarchy becomes **when is selfish routing bad? the price of anarchy in light ...** - when is selfish routing bad? the price of anarchy in light and heavy traffic wednesday, april 4 3:15 pm - refreshments, 3:30 - graduate seminar lind hall room 305 this paper examines the behavior of the price of anarchy as a function of the traffic inflow in nonatomic congestion games with multiple origin-destination (o/d) pairs. **honours: selfish routing and the price of anarchy/chapter 3** - the price of anarchy - tel aviv university - the price of anarchy • both examples: selfish behavior inefficient - e.g., equilibria need not minimize avg/max cost • price of anarchy: worst-case ratio between "social cost" of equilibrium and of optimum - w.r.t. a game + a definition of social cost vs. vs. **selfish routing with atomic players - researchgate** - selfish routing with atomic players tim roughgarden* introduction. one of the most successful applications of the price of anarchy--the worst-case ratio between **chapter 18 routing games - theoryanford** - routing games. section 18.5 proposes two ways to reduce the price of anarchy in nonatomic selfish routing games. section 18.6 concludes with bibliographic notes. 18.2 models and examples 18.2.1 nonatomic selfish routing to introduce nonatomic selfish routing games, we recall the essential features of pigou's example (example 17.1 and ... **selfish routers and the price of anarchy** - selfish routers and the price of anarchy christos papadimitriou? and gregory valiant?? abstract. we revisit roughgarden and tardos's price of anarchy in network routing, in a new model in which routing decisions are made by the edges as opposed to the flows. we propose two models: the latency model in **selfish routing in social networks - seas.upenn** - selfish and system optimal routing under such environments. furthermore, through extensive simulation, empirical results are presented that both support previous research in selfish routing and establish novel relationships between the preferential attachment model, price of anarchy and prevalence of the braess paradox. selfish routing **selfish routing in capacitated networks** - selfish routing in capacitated networks jose ´ r. correa, andreas s. schulz, and nicolas ´ e. stier moes ... selfish routing, price of anarchy, traffic assignment, system optimum, nash equilibrium, performance guarantee, multicommodity flow. ... of selfish routing is at most  $4/3$  times that of the best coordinated routing, when latencies ... **upper bounding the price of anarchy in atomic splittable ...** - the price of anarchy in nonatomic selfish routing games was first studied by roughgarden and tardos [14]. for results on upper and lower bounds on the price of anarchy in this model, refer to [12], [11] and [14]. finally, roughgarden and tardos suggested some way to reduce the price of anarchy in nonatomic settings [12].$

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