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 s t xd 1 0 1 1-€ € *the price of anarchy of selfish routing - staffience.uu* - introduction potential function pigou bound braess's paradox atomic sel sh routing reducing the price summary introduction price of anarchy the price of anarchy of a non-atomic1 sel sh routing game is the ratio between the cost of an equilibrium *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 *selfish routing and the price of anarchy - cornell university* - 1 selfish routing and the price of anarchy tim roughgarden cornell university includes joint work with Éva tardos *when is selfish routing bad? the price of anarchy in light ...* - roughgarden and tardos(2002) who showed that the price of anarchy in (nonatomic) routing games with a˝ne costs may not exceed 4š3. on the other hand, if the network's cost functions are polynomials of degree at most d, the price of anarchy may become as high as Θ„dšlogd″, implying that sel˙sh routing can become arbitrarily bad in ... *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. *cs364a: algorithmic game theory lecture #11: sel sh ...* - there is no pro table way to use the teleporter. if we de ne the price of anarchy (poa) to be the ratio between the travel time in an equilibrium and the minimum-possible average travel time, then the price of anarchy in the braess network (figure 1(b)) is 4 3. 2.2 pigou's example there is an even simpler sel sh routing network in which the ... *price of anarchy - ubc computer science* - price of anarchy quantifies the inefficiency of equilibrium ratio of "social cost" of worst equilibrium over optimum selfish routing is intensively studied equilibrium flow always exists in nonatomic routing games pigou'sexample shows that poa can be bounded or unbounded poa depends on cost functions but not on other network properties *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.

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