



Resource Pricing for Connection-Oriented Networks

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Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | A Game Theoretical Approach to Allocating Bandwidth under Uncertainty | Network pricing has important implications in therevenue generation, resource management, systemoptimization and congestion control of computernetworks. We depart from the prevalent idea of marginal cost pricing and provide a holistic, bi-level optimization framework to model theinteraction between network entities in a connectionoriented network. Users are treated as utilitymaximizing entities who allocate the availablebandwidth among themselves by playing a distributed, noncooperative rate game. An extension of the rateadaptation game based on Recursive Least Squares isproposed for dealing with the imperfect informationscenario. Gradient-free schemes are then developedfor revenue maximization. These are based on novelstochastic approximation techniques such as FiniteDifference Stochastic Approximation (FDFA) andSimultaneous Perturbation Stochastic Approximation (SPSA). This book is aimed at researchers and practitioners interested in developing pricing schemes for Internet and other communication networks. | Format: Paperback | Language/Sprache: english | 100 pp.



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