Record Nr. UNINA9910782339503321 Communication networks and computer systems [[electronic resource]] **Titolo** : a tribute to Professor Erol Gelenbe / / editor, Javier A. Barria Pubbl/distr/stampa London, : Imperial College Press Singapore; ; Hackensack, NJ, : Distributed by World Scientific, c2006 **ISBN** 1-281-86732-2 9786611867324 1-86094-894-4 Descrizione fisica 1 online resource (277 p.) Collana Communications and Signal Processing GelenbeE. <1945-> Altri autori (Persone) BarriaJavier A Disciplina 004.6 Soggetti Telecommunication systems Computer networks Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto Preface; CONTENTS; 1 Erol Gelenbe's Contributions to Computer and Networks Performance; 1.1 Introduction and Background; 1.2 Technical Contributions; 1.3 Contributions as a Research Leader and Mentor; 1.4 Service to the Profession; References; Resource Management; 2 Rethinking Incentives for Mobile Ad Hoc Networks; 2.1 Introduction; 2.2 Token Based Incentive Systems; 2.2.1 Quality of Service Problems; 2.2.2 Technical Conundrums; 2.3 Trust Management Systems; 2.4 Transparency vs Choice; 2.5 Proposed Solution; 2.5.1 Adoption Cycle For Mobile Ad Hoc Networks 2.5.2 Do We Really Need Incentive Systems?2.6 Conclusions; References: 3 Fair and Efficient Allocation of Resources in the Internet: 3.1 Introduction; 3.2 Fairness Efficiency and Utility Functions; 3.3 Utility-Based Bandwidth Allocation; 3.3.1 Utility of the Aggregate; 3.3.2 Limiting Regime Approximation; 3.3.3 Offered Load Estimation; 3.4 Utility-Based Admission Control; 3.5 Utility-Based Scheduling; 3.5.1 Measuring Class Delays: 3.6 Conclusion: Acknowledgements: References; 4 The Locality Principle; 4.1 Introduction; 4.2 Manifestation

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Sommario/riassunto

Communication networks and computer systems research is entering a new phase in which many of the established models and techniques of the last twenty years are being challenged. The research community is continuing to free itself from past intellectual constraints so that it may fully exploit the convergence of computing and communications. Evaluating the performance of emerging communications and computer systems constitutes a huge challenge. Thus, current research provides a set of heterogeneous tools and techniques embracing the uncertainties of time and space varying environments when the