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Seminar

Routing in schnellen Netzen

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Themenliste

1. Deflection-Routing

   [1] A. Broder, E. Upfal: Dynamic Deflection Routing on Arrays. Proceedings of the 28th Annual ACM Symposium on Theory of Computing (STOC), 1996, pp. 348–355.

2. Intervall-Routing

   [2] M. Flammini, G. Gambosi, S. Salomone: Interval Routing Schemes. Proceedings of the 12th Annual Symposium on Theoretical Aspects of Computer Science (STACS), 1995, pp. 279–290.

3. Wormhole-Routing

   [3] S. Felperin, P. Raghavan, E. Upfal: A Theory of Wormhole Routing in Parallel Computers. Proceedings of the 33rd Annual Symposium on Foundations of Computer Science (FOCS), 1992, pp. 563–572.

   [4] R. Cypher, F. Meyer auf der Heide, C. Scheideler, B. Vöcking: Universal Algorithms for Store-and-Forward and Wormhole Routing. Proceedings of the 28th Annual ACM Symposium on Theory of Computing (STOC), 1996, pp. 356–365.

4. Routing in Expander-Graphen

   [5] A. Broder, A. Frieze, E. Upfal: Existence and Construction of Edge-Disjoint Paths on Expander Graphs. Proceedings of the 24th Annual ACM Symposium on Theory of Computing (STOC), 1992, pp. 140–149.

5. Universelles Paket-Routing

   [6] T. Leighton, B. Maggs, S. Rao: Universal Packet Routing Algorithms. Proceedings of the 29th Annual Symposium on Foundations of Computer Science (FOCS), 1988, pp. 256–269.

6. Deterministisches Permutations-Routing mit beschränkten Puffern

   [7] F. Meyer auf der Heide, C. Scheideler: Deterministic Routing with Bounded Buffers: Turning Offline into Online Protocols. Proceedings of the 37th Annual Symposium on Foundations of Computer Science (FOCS), 1996, pp. 370–379.

7. Universelles dynamisches Routing

   [8] C. Scheideler, B. Vöcking: Universal Continous Routing Strategies. Proceedings of the 8th ACM Symposium on Parallel Algorithms and Architectures (SPAA), 1996, pp. 142–151.

8. Dynamisches Routing mit beschränkten Puffern

   [9] A. Broder, A. Frieze, E. Upfal: A General Approach to Dynamic Packet Routing with Bounded Buffers. Proceedings of the 37th Annual Symposium on Foundations of Computer Science (FOCS), 1996, pp. 390–399.

9. Stabilität von dynamischen Routing-Protokollen

   [10] M. Andrews, B. Awerbuch, A. Fernandez, J. Kleinberg, T. Leighton, Z. Liu: Universal Stability Results for Greedy Contention-Resolution Protocols. Proceedings of the 37th Annual Symposium on Foundations of Computer Science (FOCS), 1996, pp. 380–389.

10. Circuit-Routing

    [11] B. Awerbuch, R. Gawlick, T. Leighton, Y. Rabani: On-line Admission Control and Circuit Routing for High Performance Computing and Communication. Proceedings of the 35th Annual Symposium on Foundations of Computer Science (FOCS), 1994, pp. 412–423.

11. Optimale kollektive Kommunikation in Netzen mit schnellen Switches

    [12] R. Feldmann, J. Hromkovic, S. Madhavapeddy, B. Monien, P. Mysliwietz: Optimal Algorithms for Dissemination of Information in Generalized Communication Modes. Discrete Applied Mathematics, Vol. 53, September 1994, pp. 55-78.

12. Pfad-Layout in ATM-Netzen

    [13] I. Cidon, O. Gerstel, S. Zaks: A Scalable Approach to Routing in ATM Networks. Proceedings of the 8th International Workshop on Distributed Algorithms (WDAG), 1994, pp. 209–222.

13. Pfad-Layout in ATM-Ketten

    [14] O. Gerstel, A. Wool, S. Zaks: Optimal Layouts on a Chain ATM Network. Proceedings of the Third Annual European Symposium on Algorithms (ESA), 1995, pp. 508-522.

14. Routing in optischen Netzen

[15] P. Raghavan, E. Upfal: Efficient Routing in All-Optical Networks. Proceedings of the 26th Annual ACM Symposium on Theory of Computing (STOC), 1994, pp. 134–143.

15. Routing in optischen Netzen II

[16] Y. Aumann, Y. Rabani: Improved Bounds for All-Optical Routing. Proceedings of the 6th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA), 1995, pp. 567–576.