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Principle Peer Reviewd Publications

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Archival Journal Submissions

- Ozdemir, M. and McDonald, A.B., “*On the Performance of Ad Hoc Wireless LANs: A Queueing Theoretic Model.*”, Invited for Peer Review to Special Issue of **Kluwer Journal of Performance**, (Notification Expected in October, 2005 for Publication in March/April 2006).
- Ozdemir, M., McDonald, A.B. and Ramanathan, R., *On the Design and Analysis of a Wireless MAC with Guaranteed QoS: AROMA.*” Submitting for Peer Review to **IEEE Transactions on Mobile Computing**, (Target Dates: October 1-8, 2005).
- McDonald, A.B., Fang, Y., Gu, D., Lee, J., Ozdemir, M., Ramanathan, R. and Zhang, J., *The Shrinking Rate of Return Problem: Enhancing MAC Efficiency to Support High Capacity Wireless LANs.*” Submitting for Peer Review to **IEEE Transactions on Mobile Computing**, (Target Dates: October 15-22, 2005).
- Ozdemir, M. and McDonald, A.B., “*On the Performance of Multiple-Hop Wireless Networks: An Ergodic Queueing Analysis.*”, Submitting for Peer Review to **IEEE Transactions on Wireless Communications**, (Target Dates: November 12 -19, 2005).

Refereed Conference Proceedings

- Ozdemir, M., Gu D., McDonald, A.B. and Zhang, J., “*Enhancing MAC Performance with a Reverse Direction Protocol for High-Capacity Wireless LANs.*” **Submitted for Peer Review to IEEE Wireless Communications and Networking Conference (WCNC’06)**, April 3-6 2006, Las Vegas, Nevada.
- Ozdemir, M. and McDonald, A.B., “*A Queueing Model of Multihop Ad Hoc Networks*”, To Appear in **Proceedings of the IEEE Seventh International Conference on Mobile and Wireless Communications Networks (MWCN’05)**. Marrakeck, Morocco, Septemeber 19-20, 2005.
- Ozdemir, M. and McDonald, A.B., “*A Queueing Theoretic Model for Wireless Ad Hoc LANs.*” To Appear in **Proceedings of the IEEE/ACM International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob’05)**, Monreal, Canada, August 22-24, 2005.
- Ozdemir, M. and McDonald, A.B. and Ramanathan, R. “*Asynchronous Reservation-Oriented Multiple Access for Wireless Networks (AROMA).*” **Proceedings of the IEEE International Conference on Wireless Networks, Communications, and Mobile Computing (WIRELESSCOMM’05)**, International Symposium of Wireless Quality-of-Service (WiQoS’05), Maui, Hawaii, June 13-16, 2005.
- Ozdemir, M. and McDonald, A.B., “*An M/MMGI/1/K Queueing Model for IEEE 802.11 Ad Hoc Networks.*” **Proceedings of ACM Workshop on Performance Evaluation of Wireless Ad Hoc, Sensor and Ubiquitous Networks (PE-WASUN 2004)**, in conjunction with the **Seventh ACM/IEEE International Symposium on Modeling, Analysis and Simulation of Mobile Systems (MSWiM’04)**, Venice, Italy, October 7, 2004, pp. 107-111. .
- Ozdemir, M. and McDonald, A.B., “*A Queueing Theoretic Model for IEEE 802.11 DCF.*” **Proceedings of the 13th IEEE Workshop on Local and Metropolitan Area Networks (LANMAN’04)**, San Francisco, CA, April 25-28, 2004, pp. 33-38

Ph.D. Dissertation Proposal

- **Title:** "Analysis of Single and Multiple-Hop Wireless LANs: An Ergodic Queing Model with and Admission Controller"
- **Research and Academic Advisor:** Prof. A. Bruce McDonald.
- **Date of Proposal Defense:** Planned for December 2005.
- **Committee Members:** Prof. A. B. McDonald, ECE, Prof. S. Basgni, ECE, Prof. G. Noubir, CCS and Dr. Daqing Gu, MERL.