

Publications of Mustafa Ergen

Book:

“Multi-Carrier Digital Communications: Theory and Applications of OFDM”, Ahmad RS Bahai, Burton R. Saltzberg, **Mustafa Ergen**, Springer Inc. Newyork, 2004. ISBN: (HB) 0-387-22575-7 (alk.paper)/ (eBook) 0-387-22576-5. (I wrote the following chapters: 2.1, 2.2, 2.3, 6.1, 6.2, 9, 11, 12, 13. Table of contents can be found in <http://ofdm.eecs.berkeley.edu>)

“IEEE 802.11 Tutorial” **Mustafa Ergen**, University of California Berkeley, June 2002.

Available at <http://www.eecs.berkeley.edu/~ergen/docs/ieee.pdf>.

Thesis & Reports:

“I-WLAN: Intelligent Wireless Local Area Networking”, **Mustafa Ergen**, PhD degree Dissertation, University of California Berkeley, December 2004.

“Entrepreneurship Models of the Countries that leverage Silicon Valley”, **Mustafa Ergen**, MA degree Thesis, University of California Berkeley, December 2004.

“WTRP-Wireless Token Ring Protocol,” **Mustafa Ergen**, MS degree Thesis, University of California Berkeley, May 2002 supervised by Prof. Pravin Varaiya and California PATH Program, Institute of Transportation Studies, University of California at Berkeley, 2002.

“HEARWiP: EnHanced MEdium Access ContRol Protocol for Wireless Voice over IP,” **Mustafa Ergen**, Sinem Coleri, Internal Report to Advanced Technology Lab of National Semiconductor, August 2004.

“Implementation of an Acoustic Localization Algorithm for Video Camera Steering in Sensor Networks”, Paolo Minero, **Mustafa Ergen**, Internal Report to Advanced Technology Lab of National Semiconductor and Distributed Sensing Lab of UC Berkeley, August 2004.

“Adaptive Antenna System for IEEE 802.11,” **Mustafa Ergen**, Internal

Report to Advanced Technology Lab of National Semiconductor, August 2003.

“Extension of Basic Service Set by Multihop Routing in IEEE 802.11 Wireless LAN Standard” Mustafa Ergen, Internal Report to Advanced Technology Lab of National Semiconductor, August 2002.

Journals:

Mustafa Ergen, Pravin Varaiya, “ Understanding the Markov Model Analysis for Throughput in IEEE 802.11 DCF Mode”, submitted to IEEE Trans. On Networking.

Mustafa Ergen, Pravin Varaiya, “Cross Layer Optimization for Mixed Data Rate for IEEE 802.11”, submitted to IEEE Trans. Mobile computing.

Mustafa Ergen, Pravin Varaiya, “Delay Analysis under saturated and non-saturated traffic for IEEE 802.11 DCF Mode”, submitted to IEEE Trans. Mobile computing.

Mustafa Ergen, Pravin Varaiya, “Energy rate (J/bit) Performance of CSMA/CA”, submitted to IEEE Comm. Letters.

Mustafa Ergen, Baris Dunder, Pravin Varaiya, “Network Management for IEEE 802.11,” submitted to IEEE Pervasive Computing.

Mustafa Ergen, Duke Lee Pravin Varaiya, **“WTRP-Wireless Token Ring Protocol**, IEEE Transaction on Vehicular Technology, vol.53, November, 2004.

Mustafa Ergen, Pravin Varaiya, **“ Throughput Analysis and Admission Control in IEEE 802.11a”** appear on ACM-Kluwer MONET Special Issue on WLAN Optimization at the MAC and Network Levels.

Mustafa Ergen, Sinem Coleri, Pravin Varaiya **“QoS Aware Adaptive Resource Allocation Techniques for Fair Scheduling in OFDMA Based Broadband Wireless Access Systems,”** IEEE Transactions on Broadcasting, Vol.:49: Dec. 2003.

Mustafa Ergen, Duke Lee, Ruchira Datta, Jeff Ko, Anuj Puri, Raja Sengupta, Pravin Varaiya, **“Comparison of Wireless Token Ring Protocol with IEEE 802.11,”** Journal of Internet Technology, Vol. 4 No. 4.

Sinem Coleri, **Mustafa Ergen**, Anuj Puri, Ahmad Bahai, **“Channel Estimation Techniques Based on Pilot Arrangement in OFDM Systems,”**

IEEE Transactions on Broadcasting VOL. 48, NO. 3 September 2002, pp 223-229.

Selected Conference Papers:

Mustafa Ergen, Pravin Varaiya, "Adaptive Antenna for point-to-point links", submitted to GLOBECOM.

Mustafa Ergen, Sinem Coleri, Pravin Varaiya, "Multicast based Wireless Voice over IP protocol for IEEE 802.11", submitted to IEEE GLOBECOM.

Mustafa Ergen, Pravin Varaiya, "[Throughput Formulation and WLAN Optimization in Mixed Data Rates for IEEE 802.11 DCF Mode.](#)" GLOBECOM-CAMAD 2004. (**Invited Paper**)

Mustafa Ergen, Baris Dunder, Pravin Varaiya, "[Throughput Analysis of an Extended Service Set in 802.11.](#)" GLOBECOM 2004.

Sinem Coleri, **Mustafa Ergen**, Pravin Varaiya, "**Estimating Network Internal Link Loss Behavior From End-to-End Multi-cast Measurements**" submitted to International Workshop on Advanced Architectures and Algorithms for Internet Delivery and Applications

Xuanming Dong, **Mustafa Ergen**, Pravin Varaiya, Anuj Puri "[Improving the Aggregate Throughput of Access Points in IEEE 802.11 Wireless LANs](#)", IEEE WLN, Bonn, Germany, October, 2003.

Mustafa Ergen, Duke Lee, Raja Sengupta, Pravin Varaiya "[Wireless Token Ring Protocol-performance comparison with IEEE 802.11.](#)", IEEE ISCC, Antalya, Turkey, July 2003.
(**Best Student Paper Award**)

Sinem Coleri, **Mustafa Ergen**, Tak-Kuen John Koo, "[Lifetime Analysis of a Sensor Network with Hybrid Automata Modelling.](#)" ACM WSNA Atlanta, September 2002.

Mustafa Ergen, Anuj Puri, "[MEWLANA-Mobile IP Enriched Wireless Local Area Network Architecture.](#)" IEEE VTC, Vancouver September, 2002.
(**Implementation by Fabrice Theoleyre**)

Mustafa Ergen, Sinem Coleri, Baris Dunder, Rahul Jain, Anuj Puri, Pravin Varaiya, "[Application of GPS to Mobile IP and Routing in Wireless Networks.](#)" IEEE VTC, Vancouver, Canada, September, 2002.

Sinem Coleri, **Mustafa Ergen**, Anuj Puri, Ahmad Bahai, “**A Study of Channel Estimation in OFDM Systems**,” IEEE VTC, Vancouver, Canada, September, 2002.

Mustafa Ergen, Sinem Coleri, Baris Dunder, Anuj Puri, Jean Walrand, Pravin Varaiya, “**Position Leverage Smooth Handover Algorithm For Mobile IP**,” IEEE ICN Atlanta, August, 2002.

Duke Lee, Sinem Coleri, Xuanming Dong, **Mustafa Ergen**, “**FLORAX- Flow-Rate Based Hop by Hop Back-pressure Control for IEEE 802.3x**,” IEEE HSNMC Jeju Island Korea July, 2002.

Mustafa Ergen, Duke Lee, Roberto Attias, Stavros Tripakis, Anuj Puri, Raja Sengupta, Pravin Varaiya, “**Wireless Token Ring Protocol**,” SCI Orlando, July, 2002.

Sinem Coleri, **Mustafa Ergen**, “**Verification and Power Analysis of an Event-Based System (TinyOS) and Sensor Network with Hybrid Automata**,” SCI Orlando, July, 2002.

Mustafa Ergen, Sinem Coleri, Baris Dunder, Anuj Puri, Pravin Varaiya, “**Fast Handoff with GPS Routing for Mobile IP**,” IPCN Paris, April, 2002.

Sinem Coleri, **Mustafa Ergen**, “**A Survey of Channel Estimation Techniques Based on Pilot Arrangement for OFDM Systems**,” IPCN Paris, April, 2002.

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