

## **Mustafa Ergen - Yayınlar**

### **A. Uluslararası hakemli dergilerde yayımlanan makaleler :**

**A1.** Mustafa Ergen, “Critical Penetration for Vehicular Networks,” IEEE Communication Letters, May 2010. [SCI-EXPANDED, ISSI: 1089-7798]

**A2.** Steven Shladover, Gungor Polatkan, Raja Sengupta, Joel VanderWerf, Mustafa Ergen, Benedicte Bougler, “Dependence of Cooperative Vehicle System Performance on Market Penetration,” Transportation Research Record: Journal of the Transportation Research Board, vol. 2000/2007, November 2007, pp 121-127. [SCI-EXPANDED, ISSI: 0361-1981]

**A3.** Tony Mak, Kenneth Laberteaux, Raja Sengupta, Mustafa Ergen “Multi-Channel Medium Access Control for Dedicated Short Range Communications,” IEEE Trans. on Vehicular Technology, vol. 58, January 2009, pp 349-366. [SCI-EXPANDED, ISSI: 0018-9545]

**A4.** Sofie Pollin, Mustafa Ergen, Sinem Coleri Ergen, Bruno Bougard, Liesbet Van der Perre, Francky Catthoor, Ingrid Moerman, Ahmad Bahai, Pravin Varaiya, “Performance Analysis of Slotted Carrier Sense IEEE 802.15.4 Medium Access Layer,” IEEE Trans. Wireless Communications, vol. 7, September 2008, pp 3359-3371. [SCI-EXPANDED, ISSI: 1536-1276]

**A5.** Mustafa Ergen, Pravin Varaiya, “Formulation of Distribution Coordination Function of IEEE 802.11 for Asynchronous Networks: Mixed Data Rate and Packet Size,” IEEE Trans. Vehicular Technology, vol. 57, January 2008, pp 436-447. [SCI-EXPANDED, ISSI: 0018-9545]

**A6.** Mustafa Ergen, Pravin Varaiya, “ Throughput Analysis and Admission Control in IEEE 802.11a” Springer Mobile Networks and Applications, vol. 10, no.5, October 2005, pp, 705-706. [SCI-EXPANDED, ISSI: 1383-469X]

**A7.** Mustafa Ergen, Duke Lee Pravin Varaiya, “WTRP-Wireless Token Ring Protocol, IEEE Transaction on Vehicular Technology, vol.53, November, 2004, pp 1863-1881. [SCI-EXPANDED, ISSI: 0018-9545]

**A8.** 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, December 2003, pp. 362-370. [SCI-EXPANDED, ISSI: 0018-9361]

**A9.** 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. 5/11 [SCI-EXPANDED, ISSI: 1607-9264]

**A10.** Sinem Coleri, Mustafa Ergen, Anuj Puri, Ahmad Bahai, “Channel Estimation Techniques Based on Pilot Arrangement in OFDM Systems,” IEEE Transactions on Broadcasting, vol. 48, September 2002, pp 223-229. [SCI-EXPANDED, ISSI: 0018-9361]

### **B. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler :**

**B1.** M. Karaman, G. Gur, M. Ergen, E. Anarım IEEE WCNC 2014 konferansı dahilinde “IEEE WCNC Wireless Communications and Networking Conference” bildiri kitapçığındaki “Spectrum-

- Aware Dynamic Frequency Reuse (SADFR) for SON-Based OFDMA HetNets”, 2558-2563 pp., İstanbul, Türkiye, 6-9 Nisan 2014.
- B2.** M. Ergen, P. Varaiya, ICC 2007 konferansı dahilinde "Communications, 2007. ICC '07. IEEE International Conference on" bildiri kitapçığındaki "Decomposition of Energy Consumption in IEEE 802.11", 403-408 pp., Glasgow, UK, 24-28 Haziran 2007
- B3.** S. Pollin, M. Ergen, S. Ergen, B. Bougard, F. Catthoor, A. Bahai, P. Varaiya, IEEE WCNC 2008 konferansı dahilinde "IEEE Wireless Communications and Networking Conference, 2008" bildiri kitapçığındaki "Performance analysis of slotted carrier sense IEEE 802.15.4 acknowledged uplink transmissions", 1559-1564 pp., Las Vegas, USA, 31 Mart 2008
- B4.** S. Pollin, M. Ergen, S. Ergen, B. Bougard, L. V. d. Perre, I. Moerman, A. Bahai, F. Catthoor, IEEE Globecom 2006 konferansı dahilinde "Global Telecommunications Conference, 2006, Globecom'06, IEEE" bildiri kitapçığındaki "Performance analysis of slotted carrier sense IEEE 802.15.4 medium access control layer", 1-6 pp., San Francisco, USA, 27 Kasım 2006
- B5.** S. Pollin, M. Ergen, A. Dejonghe, L. V. d. Perre, F. Catthoor, I. Moerman, A. Bahai, IEEE Crowncom konferansı dahilinde "Cognitive Radio Oriented Wireless Networks and Communications, 2006, 1st International Conference on" bildiri kitapçığındaki "Distributed cognitive coexistence of 802.15.4 with 802.11", 1-5 pp., Mykonos Island, Greece, 8 Haziran 2006
- B6.** M. Ergen, S. Coleri, P. Varaiya, IEEE WCNC 2006 konferansı dahilinde "Wireless Communications and Networking Conference, 2006, WCNC 2006, IEEE" bildiri kitapçığındaki "Multicast based Wireless Voice over IP protocol for IEEE 802.11", 2235-2239 pp., Las Vegas, USA, 3 Nisan 2006
- B7.** S. Coleri, M. Ergen, P. Varaiya, IEEE WCNC 2006 konferansı dahilinde "Wireless Communications and Networking Conference, 2006, WCNC 2006, IEEE" bildiri kitapçığındaki "Estimating Network Internal Link Loss Behavior from end-to-end Multicast Measurements", 2335-2341 pp., Las Vegas, USA, 3 Nisan 2006
- B8.** M. Maolobi, A. Bahai, M. Ergen, P. Varaiya, J. Walrand, IEEE VTC 2007 konferansı dahilinde "Vehicular Technology Conference, 2007, VTC2007-Spring, IEEE 65th" bildiri kitapçığındaki "Unequal Importance Image Communication over Heterogenous Networks", 629-633 pp., Dublin, Ireland, 22 Nisan 2007
- B9.** M. Ergen, P. Varaiya, IEEE Globecom 2004 konferansı dahilinde "Global Telecommunications Conference Workshops, 2004, GlobeCom Workshops 2004, IEEE" bildiri kitapçığındaki "Throughput Formulation and WLAN Optimization in Mixed Data Rates for IEEE 802.11 DCF Mode", 266-269 pp., Dallas, USA, 29 Kasım 2004
- B10.** M. Ergen, B. Dundar, P. Varaiya, IEEE Globecom 2004 konferansı dahilinde "Global Telecommunications Conference, 2004, GlobeCom Workshops 2004, IEEE" bildiri kitapçığındaki "Throughput Analysis of an Extended Service Set in 802.11", 1040-1045 pp., Dallas, USA, 29 Kasım 2004
- B11.** X. Dong, M. Ergen, P. Varaiya, A. Puri, IEEE LCN 2003 konferansı dahilinde "Local Computer Networks, 2003, LCN'03, 28th Annual IEEE International Conference on" bildiri kitapçığındaki "Improving the Aggregate Throughput of Access Points in IEEE 802.11 Wireless LANs", 682-690 pp., Bonn, Germany, 20 Ekim 2003
- B12.** M. Ergen, D. Lee, R. Sengupta, P. Varaiya, IEEE ISCC 2003 konferansı dahilinde "Computers and Communication, 2003. Eight IEEE International Symposium on" bildiri kitapçığındaki "Wireless Token Ring Protocol - performance comparison with IEEE 802.11", 710-715 pp., Antalya, Turkey, 30 Haziran 2003

- B13.** S. Coleri, M. Ergen, T-K J. Koo, International Workshop on Wireless Sensor Networks and Applications konferansı dahilinde "1st ACM International workshop on Wireless sensor networks and applications" bildiri kitapçığındaki "Lifetime Analysis of a Sensor Networks with Hybrid Automat Modelling", 96-104 pp., Atlanta, USA, Eylül 2002
- B14.** M. Ergen, A. Puri, IEEE VTC 2002-Fall konferansı dahilinde "IEEE 56th Vehicular Technology Conference, 2002" bildiri kitapçığındaki "MEWLANA-Mobile IP Enriched Wireless Local Area Network Architecture", 2449-2453 pp., Vancouver, Canada, Eylül 2002
- B15.** M. Ergen, S. Coleri, B. Dundar, R. Jain, A. Puri, P. Varaiya, IEEE VTC 2002-Fall konferansı dahilinde "IEEE 56th Vehicular Technology Conference, 2002" bildiri kitapçığındaki "Application of GPS to Mobile IP and Routing in Wireless Networks", 1115-1119 pp., Vancouver, Canada, Eylül 2002
- B16.** S. Coleri, M. Ergen, A. Puri, A. Bahai, IEEE VTC 2002-Fall konferansı dahilinde "IEEE 56th Vehicular Technology Conference, 2002" bildiri kitapçığındaki "A Study and Channel Estimation in OFDM Systems", 894-898 pp., Vancouver, Canada, Eylül 2002
- B17.** D. Lee, S. Coleri, X. Dong, M. Ergen, IEEE HSNMC 2002 konferansı dahilinde "High Speed Networks and Multimedia Communications 5th IEEE International Conference on" bildiri kitapçığındaki "FLORAX- Flow-rate based hop by hop back-pressure control for IEEE 802.3x", 202-207 pp., Jeju Island, Korea, Haziran 2002
- B18.** M. Ergen, S. Pollin, P. Varaiya, IEEE Globecom - Autonet 2006 konferansı dahilinde "IEEE Globecom 2006 - 1st IEEE Workshop on Automotive Networking and Applications" bildiri kitapçığındaki "Analysis of Adaptive Antenna System for Vehicular Networks", 1-5 pp., San Francisco, USA, 27 Kasım 2006

### **C. Yazılan kitaplar:**

- C1.** Ergen, M., Girişimci Kapital: Silikon Vadisi Tarihi ve Startup Ekonomisi, KUY, 2015. ISBN: 9786055250409
- C2.** Ergen, M., 移动宽带系统——包括 WiMAX 和 LTE, Phei.com. China, 2011. ISBN: 9787121128332
- C3.** Ergen, M., *Mobile Broadband – Including WiMAX and LTE*, Springer, New York, 2009. ISBN: 0387681892
- C4.** Bahai, A., Saltzberg, B., Ergen, M., *Multicarrier Digital Communications: Theory and Applications of OFDM*, Springer, New York, 2004. [ISBN: 0387225757]

### **F. Diğer yayınlar :**

- F1.** "IEEE 802.11 Tutorial" Mustafa Ergen, University of California Berkeley, June 2002. Available at <http://www.eecs.berkeley.edu/~ergen/docs/ieee.pdf>.
- F2.** "Market Penetration Analyses for Vehicle to Vehicle Networks", Mustafa Ergen, Steven E. Shladover, Raja Sengupta, Internal Report to GM, August 2005.
- F3.** "Multi-Channel Medium Access Control for Dedicated Short Range Communications", Tony K. Mak, Kenneth P. Laberteaux, Raja Sengupta, Mustafa Ergen, California Path Report, 2006
- F4.** "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.
- F5.** "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.

**F6.** “Adaptive Antenna System for IEEE 802.11,” Mustafa Ergen, Internal Report to Advanced Technology Lab of National Semiconductor, August 2003.

**F7.** “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.

**F8.** Access Service Network in WiMAX: The role of ASN-GW – Part I: November 05, 2007  
<http://www.mobilehandsetdesignline.com/>

**F9.** Access Service Network in WiMAX: The role of ASN-GW – Part II: November 12, 2007  
<http://www.mobilehandsetdesignline.com/>

**F10.** Access Service Network in WiMAX: The role of ASN-GW – Part III: November 19, 2007  
<http://www.mobilehandsetdesignline.com/> (Number one in Google(`asn-gw`))

**F11.** “4G Gelirken Neler Değişebilir?,” Ocak 1, 2011  
[http://www.maxihaber.net/yazarlar/konukyazar/2011/yazar\\_mustafa\\_ergen\\_01012011.htm](http://www.maxihaber.net/yazarlar/konukyazar/2011/yazar_mustafa_ergen_01012011.htm)

**F12.** Dağıtık Girişimci Sermayesi: Kitle Fonlaması, 3. Sanayi Şurası, Ankara  
<http://girisimcilik.mustafaergen.com/uploads/1/0/5/9/10590997/dagitikgirisimcisermayesi-2.pdf>

#### **G. Patentler :**

	<b>USPTO</b>	
1	<a href="#">20150356607</a>	<a href="#">DYNAMIC CUSTOMER ENGAGEMENT SYSTEM OFFERING BENEFITS</a>
2	<a href="#">20150173086</a>	<a href="#">INTERFACE BETWEEN BASE STATIONS FOR TOPOLOGY DISCOVERY TO ENABLE COORDINATED RESOURCE USAGE</a>
3	<a href="#">20150049599</a>	<a href="#">GUARANTEEING MOBILE USER EQUIPMENT REATTACHMENT TO A MINI BASE STATION UNDER INTERMITTENT IP NETWORK FAILURES</a>
4	<a href="#">20140153397</a>	<a href="#">APPARATUS AND METHOD FOR CONTROLLING TRAFFIC FLOW IN BACKHAUL LINK IN WIRELESS COMMUNICATION NETWORK</a>
5	<a href="#">20130137402</a>	<a href="#">WI-FI AUTHENTICATION BY PROXY</a>
6	<a href="#">20130016660</a>	<a href="#">METHOD AND APPARATUS TO ESTIMATE RELATIVE BASE STATION AND SUBSCRIBER TERMINAL LOCATIONS AND USING IT TO INCREASE FREQUENCY REUSE</a>
7	<a href="#">20120329492</a>	<a href="#">SYSTEM FOR SMS BASED TICKET NUMBER SERVICE OVER FEMTOCELL ACCESS POINT</a>
8	<a href="#">20120220304</a>	<a href="#">METHOD AND APPARATUS TO ESTIMATE RELATIVE BASE STATION AND SUBSCRIBER TERMINAL LOCATIONS AND USING IT TO INCREASE FREQUENCY REUSE</a>
9	<a href="#">20120147854</a>	<a href="#">METHOD AND SYSTEM FOR TRANSMITTING CONTENT IN A WIRELESS COMMUNICATION NETWORK</a>
10	<a href="#">20120051295</a>	<a href="#">METHOD AND SYSTEM FOR AUTOMATICALLY MANAGING OPERATIONS OF AN IPTV LOCATED IN A</a>

11	<a href="#">20120008579</a>	<u>FEMTOCELL NETWORK</u> <u>METHOD AND SYSTEM FOR MANAGING</u> <u>COMMUNICATION IN AN OFDMA SYSTEM</u>
12	<a href="#">20110140969</a>	<u>METHOD AND SYSTEM FOR HYBRID</u> <u>POSITIONING USING PARTIAL DISTANCE</u> <u>INFORMATION</u>
13	<a href="#">20100317380</a>	<u>METHOD AND SYSTEM FOR SMS BASED</u> <u>TICKET NUMBER SERVICE OVER</u> <u>FEMTOCELL ACCESS POINT</u>
14	<a href="#">20100220696</a>	<u>METHOD AND SYSTEM FOR MANAGING</u> <u>COMMUNICATION IN AN OFDMA SYSTEM</u>
15	<a href="#">20100216463</a>	<u>METHOD AND APPARATUS TO ESTIMATE</u> <u>RELATIVE BASE STATION AND</u> <u>SUBSCRIBER TERMINAL LOCATIONS AND</u> <u>USING IT TO INCREASE FREQUENCY REUSE</u>
16	<a href="#">20100124928</a>	<u>METHOD AND APPARATUS FOR HANDOVER</u> <u>IN WIRELESS COMMUNICATION NETWORK</u>
17	<a href="#">20100124200</a>	<u>METHOD AND APPARATUS FOR</u> <u>PREDICTING HANDOVER IN WIRELESS</u> <u>COMMUNICATION NETWORK</u>
18	<a href="#">20090316660</a>	<u>METHOD, SYSTEM, AND APPARATUS FOR</u> <u>HANDOVER AMONGST PLURALITY OF</u> <u>COMMUNICATION NETWORKS</u>
19	<a href="#">20090303922</a>	<u>METHOD AND APPARATUS FOR</u> <u>COMMUNICATING A PLURALITY OF</u> <u>PACKETS IN A COMMUNICATION</u> <u>NETWORK</u>
20	<a href="#">20090097461</a>	<u>METHOD AND APPARATUS FOR PROVIDING</u> <u>CONTENT IN WIRELESS COMMUNICATION</u> <u>NETWORK</u>
21	<a href="#">20090088167</a>	<u>METHOD AND APPARATUS TO ESTIMATE</u> <u>RELATIVE BASE STATION AND</u> <u>SUBSCRIBER TERMINAL LOCATIONS AND</u> <u>USING IT TO INCREASE FREQUENCY REUSE</u>
22	<a href="#">20090080375</a>	<u>METHOD AND APPARATUS FOR NETWORK</u> <u>WIDE ADAPTIVE RESOURCE ALLOCATION</u> <u>FOR OFDMA/TDMA NETWORKS</u>
23	<a href="#">20090073885</a>	<u>METHOD, SYSTEM AND APPARATUS FOR</u> <u>TRACKING USER BEHAVIOR IN A WIRELESS</u> <u>COMMUNICATION NETWORK</u>
24	<a href="#">20090069004</a>	<u>METHOD AND APPARATUS FOR LOAD</u> <u>BALANCING IN A WIRELESS</u> <u>COMMUNICATION NETWORK</u>
25	<a href="#">20090067333</a>	<u>APPARATUS AND METHOD FOR</u> <u>CONTROLLING TRAFFIC FLOW IN</u> <u>BACKHAUL LINK IN WIRELESS</u> <u>COMMUNICATION NETWORK</u>
26	<a href="#">20090061922</a>	<u>METHOD AND APPARATUS FOR MANAGING</u> <u>CONNECTION IDENTIFIERS (Cids) IN A</u> <u>WIRELESS COMMUNICATION NETWORK</u>
27	<a href="#">20090029707</a>	<u>APPARATUS AND METHOD FOR</u> <u>COMMUNICATION IN WIRELESS</u> <u>COMMUNICATION NETWORK USING</u> <u>GLOBAL RADIO RESOURCE CONTROLLER</u>
28	<a href="#">20090010344</a>	<u>METHOD AND SYSTEM FOR MANAGING</u> <u>COMMUNICATION IN AN OFDMA SYSTEM</u>

29	<a href="#">20080310365</a>	<a href="#">METHOD AND SYSTEM FOR CACHING CONTENT ON-DEMAND IN A WIRELESS COMMUNICATION NETWORK</a>
30	<a href="#">20080273498</a>	<a href="#">METHOD AND SYSTEM FOR TRANSMITTING CONTENT IN A WIRELESS COMMUNICATION NETWORK</a>
31	<a href="#">20080186858</a>	<a href="#">METHOD AND APPARATUS FOR MANAGING BACKHAUL LINKS IN A COMMUNICATION NETWORK</a>
32	<a href="#">20080139231</a>	<a href="#">METHOD AND SYSTEM FOR SPECTRUM REUSE IN THE DOWNLINK IN A WIRELESS COMMUNICATION NETWORK</a>
33	<a href="#">20080139211</a>	<a href="#">METHOD AND SYSTEM FOR SPECTRUM REUSE IN THE UPLINK IN A WIRELESS COMMUNICATION NETWORK</a>
34	<a href="#">20080125161</a>	<a href="#">METHOD AND SYSTEM FOR HYBRID POSITIONING USING PARTIAL DISTANCE INFORMATION</a>
35	<a href="#">20080081625</a>	<a href="#">HETEROGENEOUS ACCESS SERVICE NETWORK (ASN)-GATEWAY IN AN ASN IN A WORLDWIDE INTEROPERABILITY FOR MICROWAVE ACCESS (WIMAX) COMMUNICATION NETWORK</a>
36	<a href="#">20070297363</a>	<a href="#">METHOD AND SYSTEM FOR MANAGING COMMUNICATION IN A FREQUENCY DIVISION MULTIPLE ACCESS (FDMA) COMMUNICATION NETWORK</a>
37	<a href="#">20070253360</a>	<a href="#">METHOD AND SYSTEM FOR COMMUNICATING A PLURALITY OF PACKETS IN MULTICAST BROADCAST SERVICE (MBS) COMMUNICATION NETWORK</a>
38	<a href="#">20070147287</a>	<a href="#">REAL-TIME SPECTRUM MANAGEMENT TO INCREASE FREQUENCY REUSE</a>