

## Toktam Mahmoodi – List of Publications – Chronological Order

### 2019

90. **Book chapter:** “Haptic Networking Supporting Vertical Industries” in “Enabling 5G Communication Systems to Support Vertical Industries”. Luis Sequeira, Konstantinos Antonakoglou, Maliheh Mahlouji, and Toktam Mahmoodi, June 2019, Wiley, DOI:10.1002/9781119515579, Online ISBN:9781119515579.
89. **Journal:** Massimo Condoluci, Laurent Gallo, Laurent Mussot, Apostolos Kousaridas, Panagiotis Spapis, Maliheh Mahlouji, Toktam Mahmoodi, “5G-V2X Communications and Networking for Connected and Autonomous Vehicles”, *Future Internet*, 11(10), October 2019.
88. **Conference:** K. Mikhaylov, et. al., “Multi-Radio Perspectives for Massive MTC Localization: Energy Consumption and Utility”, ICUMT, October 2019, Dublin.
87. **Conference:** Ritesh Shreevastav, Giuseppe Destino, Deep Shrestha, Iana Siomina and Toktam Mahmoodi, “A New Position Quality Metric for NR RAT Dependent OTDOA Positioning Method”, IEEE 16th Workshop on Positioning, Navigation and Communications (WPNC), Bermen, October 2019.
86. **Magazine:** X. Lu, V. Petrov, D. Moltchanov, S. Andreev, T. Mahmoodi and M. Dohler, "5G-U: Conceptualizing Integrated Utilization of Licensed and Unlicensed Spectrum for Future IoT," in *IEEE Communications Magazine*, vol. 57, no. 7, July 2019.
85. **Journal:** M. Fallgren, et. al, “Multicast and Broadcast Enablers for High-Performing Cellular V2X Systems”, *IEEE Trans. Broadcasting*, vol. 65, no. 2, June 2019.
84. **Conference:** Luis Sequeira, Adam Szefer, Jamie Slome and Toktam Mahmoodi, “A Lane-Merge Coordination Model for V2X Scenario”, EUCNC 2019, Valencia, June 2019.
83. **Conference:** Luke Riley, Grammateia Kotsialou, Amrita Dhillon, Toktam Mahmoodi, Peter McBurney, Richard Pearce, “Deploying a Shareholder Rights Management System onto a Distributed Ledger”, *Proc. 18th International Conference on Autonomous Agents and Multi Agent Systems (AMAAS)*, pp. 2381-2383, Montreal, Canada, May 2019.
82. **Journal:** J-A Puddephatt, D Leightley, L Palmer, N Jones, T Mahmoodi, C Drummond, R Rona, NT Fear, M Field, L Goodwin, “Acceptability of a tailored mobile alcohol intervention for ex-serving military personnel: A qualitative assessment”, *Journal of Medical Internet Research (JMIR)*, vol. 5, no. 7, May 2019.
81. **Conference:** G. Mountaser, M. Mahlouji, T. Mahmoodi, “Latency Bounds of Packet-Based Fronthaul for Cloud-RAN with Functionality Split”, *IEEE ICC*, Shanghai, China, May 2019.
80. **Magazine:** Massimo Condoluci, Stephen H. Johnson, Vicknesan Ayadurai, Maria A. Lema, Maria A. Cuevas, Mischa Dohler, Toktam Mahmoodi, “*Fixed-Mobile Convergence in the 5G era: From Hybrid Access to Converged Core*”, *IEEE Network*, vol. 33, no. 2, March/April 2019.
79. **Journal (invited paper):** E. Steinbach, M. Strese, M. Eid, X. Liu, A. Bhardwaj, Q. Liu, M. Al-Ja'afreh, T. Mahmoodi, R. Hassen, A. Saddik, O. Holland "Haptic Codecs for the Tactile Internet", *Proceedings of IEEE*, vol. 107, No. 2, pp. 447-470, Feb. 2019 (First published 24 Sep. 2018.)
78. **Magazine:** Luca Feltrin, Massimo Condoluci, Toktam, Mahmoodi, Mischa Dohler, Roberto Verdone, “NarrowBand-IoT: A Survey on Downlink and Uplink Perspectives”, *IEEE Wireless Communication Magazine*, vol. 26, No. 1, February 2019.

### 2018

77. **Book chapter:** "Managing 5G Converged Core with Access Traffic Steering, Switching, and Splitting" in "Paving the Way for 5G Through the Convergence of Wireless Systems". Toktam Mahmoodi, Stephen H. Johnson, Massimo Condoluci, Vicknesan Ayadurai, Maria A. Cuevas, Mischa Dohler, IGI Global. DOI: 10.4018/978-1-5225-7570-2.ch008.

76. **Journal:** Massimo Condoluci, Toktam Mahmoodi, "Softwarization and Virtualization in 5G mobile networks: Benefits, Trends and Challenges", *Computer Networks*, vol. 146, December 2018, pp. 65-84. (pre-publication online access 13 September 2018).

75. **Conference:** Maliheh Mahlouji, Toktam Mahmoodi, "Analysis of Uplink Scheduling for Haptic Communications", IEEE GLOBECOM, Abu Dhabi, UAE, December 2018.

74. **Journal:** Ghizlane Mountaser, Toktam Mahmoodi, Osvaldo Simeone, "Reliable and Low Latency Fronthaul for Tactile Internet applications", *IEEE JSAC*, vol. 36, no. 11, pp. 2455-2463, Nov. 2018 (First published 21 September 2018). Doi: 10.1109/JSAC.2018.2872299.

73. **Journal:** Konstantinos Antonakoglou, Xiao Xu, Eckehard Steinbach, Toktam Mahmoodi, Mischa Dohler, "Towards Haptic Communications over the 5G Tactile Internet", *IEEE COMST*, accepted for publication, First published 28 June 2018.

72. **Magazine:** M. Fallgren, M. Dillinger, J. Alonso-Zarate, M. Boban, T. Abbas, K. Manolakis, T. Mahmoodi, T. Svensson, A. Laya, R. Vilalta, "Fifth-Generation Technologies for the Connected Car: Capable Systems for Vehicle-to-Anything Communications", *IEEE VT Magazine*, vol. 13, no. 3, pp. 28-38, Sept. 2018 (First published 17 July 2018).

71. **Journal:** Daniel Leightley, Jo-Anne Puddephatt, Norman Jones, Toktam Mahmoodi, Zoe Chui, Matt Field, Colin Drummond, Roberto J Rona, Nicola T. Fear and Laura Goodwin, "Development and Testing of InDEx: A smartphone app and personalised text messaging framework to monitor and reduce alcohol use in ex-serving personnel", *Journal of Medical Internet Research (JMIR)*, vol. 6, No. 9, September 2018.

70. **Conference:** Mikael Fallgran et al., "On Selected V2X Technology Components and Enablers from the 5GCAR Project," *IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB)*, Valencia, June 2018.

69. **Journal:** G. Tsoukaneri, M. Condoluci, T. Mahmoodi, M. Dohler and M. K. Marina, "Group Communications in Narrowband-IoT: Architecture, Procedures, and Evaluation", in *IEEE Internet of Things Journal*, vol. 5, no. 3, pp. 1539-1549, June 2018 (First published online 19 February 2018).

68. **Conference:** Massimo Condoluci, Riccardo Trivisonno, Xueli An, Toktam Mahmoodi, "*mIoT Connectivity Solutions for Enhanced 5G Systems*", IEEE ICC 2018, Kansas City, May 2018.

67. **Conference:** J. Zhao, Y. Liu, T. Mahmoodi, K. K. Chai, Y. Chen, Z. Han, "Resource Allocation in Cache-Enabled CRAN with Non-Orthogonal Multiple Access", IEEE ICC 2018, Kansas City, May 2018.

66. **Conference (invited paper):** Luca Feltrin, Massimo Condoluci, Toktam Mahmoodi, Mischa Dohler, Roberto Verdone, "NB-IoT: Performance Estimation and Optimal Configuration", *European Wireless*, May 2018.

65. **Journal:** Massimo Dalla Cia, Federico Mason, Davide Peron, Federico Chiariotti, Michele Polese, Toktam Mahmoodi, Michele Zorzi, Andrea Zanella, "*Using Smart City Data in 5G Self-Organizing Network*", *IEEE Internet of Things Journal*, Volume: 5, Issue: 2, April 2018 (first published online September 2017).

64. **Journal:** M. A. Tahmasbi Nejad, S. Parsaeefard, M. A. Maddah-Ali, T. Mahmoodi, B. H. Khalaj, "*vSPACE: VNF Simultaneous Placement, Admission Control and Embedding*", *IEEE JSAC*, vol. 36, no. 3, pp. 542-557, March 2018.

63. **Journal:** Riccardo Trivisonno, Massimo Condoluci, Xueli An, Toktam Mahmoodi, "*mIoT Slice for 5G Systems: Design and Performance Evaluation*", *Sensors*, 18(2), 635, February 2018.

62. **Journal:** Federico Chiariotti, Massimo Condoluci, Toktam Mahmoodi, Andrea Zanella, "*SymbioCity: Smart Cities for Smarter Networks*", *Transactions on Emerging Telecommunications Technologies*, vol. 21, no. 1, January 2018 (First published online 14 June 2017).

## 2017

61. **Book Chapter:** "Fronthauling for 5G and Beyond" in "Access, Fronthaul and Backhaul Networks for 5G & Beyond". Anvar Tukmanov; Maria A. Lema; Ian Mings; Massimo Condoluci; Toktam Mahmoodi; Zaid Al-Daher; Mischa Dohler, August 2017, IET, e-ISBN: 9781785612145.

60. **Book Chapter:** "NFV and SDN for fronthaul based systems" in "Access, Fronthaul and Backhaul Networks for 5G & Beyond". Maria Lema, Massimo Condoluci, Toktam Mahmoodi, Fragkiskos Sardis, Mischa Dohler, August 2017, IET, e-ISBN: 9781785612145.

59. **Book Chapter:** "5G IoT Industry Verticals and Network Requirements", in "Powering the Internet of Things with 5G Networks". Massimo Condoluci, Maria Lema, Toktam Mahmoodi, Mischa Dohler, July 2017, IGI Global, Chapter DOI: 10.4018/978-1-5225-2799-2.ch006, Book DOI: 10.4018/978-1-5225-2799-2.

58. **Book Chapter:** "Decoupled Uplink and Downlink Access in Heterogeneous Networks" chapter in "5G Wireless Technologies", Maria Lema, Hisham Elshaer, Toktam Mahmoodi, Mischa Dohler, June 2017, IET, ISBN: 978-1-78561-061-5

57. **Book Chapter:** "Software Defined Networking (SDN) and Network Function Virtualization (NFV) for C-RAN systems" chapter in "5G Radio Access Network (RAN) - Centralized RAN, Cloud-RAN and Virtualization of Small Cells", Massimo Condoluci, Toktam Mahmoodi, Giuseppe Araniti, February 2017, CRC Press, Taylor and Francis Group, USA, ISBN 9781498747103 - CAT# K27028

56. **Conference:** Ghizlane Mountaser, Massimo Condoluci, Toktam Mahmoodi, Mischa Dohler, Ian Mings "*Cloud-RAN in Support of URLLC*", IEEE GLOBECOM 2017 Workshops, Singapore, December 2017.

55. **Conference:** Ritu Kundu, Toktam Mahmoodi, "Mining Acute Stroke Patients' Data using Supervised Machine Learning", Int'l Conference on Mathematical Aspects of Computer and Information Sciences (MACIS), Vienna, Austria, November 2017.

54. **Conference:** Douglas Fabiano de Sousa Nunes, Edson D. S. Moreira, Bruno Yuji Lino Kimura, Nishanth Sastry and Toktam Mahmoodi, "Attraction-Area based Geo-Clustering for LTE Vehicular CrowdSensing Data Offloading", 20th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), November 2017, Miami Beach, USA.

53. **Conference:** Massimo Dalla Cia, Federico Mason, Davide Peron, Federico Chiariotti, Michele Polese, Toktam Mahmoodi, Michele Zorzi, Andrea Zanella, "Mobility-aware Handover Strategies in Smart Cities, 14<sup>th</sup> Int'l Symposium on Wireless Communication Systems (ISWCS), August 2017, Bologna, Italy.

52. **Journal:** Menglan Jiang, Dionysis Xenakis, Salvatore Costanzo, Nikos Passas, Toktam Mahmoodi, "*Radio Resource Sharing as a Service in 5G: A Software-defined Networking Approach*", *Computer Communications*, vol. 107, July 2017, pp. 13-29.

51. **Conference:** Kashif Mahmood, Toktam Mahmoodi, Riccardo Trivisonno, Anastasios Gavras, Dirk Trossen, Marco Liebsch, "*On the Integration of Verticals Through 5G Control Plane*", EUCNC 2017, Oulu, Finland, June 2017.

50. **Conference:** Mikael Fallgren, e. al, "On the Fifth Generation Communication Automotive Research and Innovation Project 5GCAR", EUCNC 2017, Oulu, Finland, June 2017.
49. **Conference:** Xun Liu, Mischa Dohler, Toktam Mahmoodi, Hongbin Liu, "Challenges and Opportunities for Designing Tactile Codecs from Audio Codecs", EUCNC 2017, Oulu, Finland, June 2017.
48. **Conference:** Maria A. Lema, Konstantinos Antonakoglou, Fragkiskos Sardis, Nantachai Sornkarn, Massimo Condoluci, Toktam Mahmoodi and Mischa Dohler, "5G Case Study of Internet of Skills: Slicing the Human Senses", EUCNC 2017, Oulu, Finland, June 2017.
47. **Conference:** Mischa Dohler, Toktam Mahmoodi, Maria A. Lema, Massimo Condoluci, Fragkiskos Sardis, Konstantinos Antonakoglou, and Hamid Aghvami, "Internet of Skills, where Robotics meets AI, 5G and the Tactile Internet", EUCNC 2017, Oulu, Finland, June 2017.
46. **Conference:** Mischa Dohler, Toktam Mahmoodi, Maria A. Lema, and Massimo Condoluci, "Future of Mobile", EUCNC 2017, Oulu, Finland, June 2017.
45. **Journal:** Massimo Condoluci, Toktam Mahmoodi, Eckehard Steinbach, Mischa Dohler, "Soft Resource Reservation for Low-Delayed Teleoperation over Mobile Networks", IEEE Access, May 2017.
44. **Conference:** Xi Lu, Maria A. Lema, Toktam Mahmoodi, and Mischa Dohler, "Downlink Data Rate Analysis of 5G-U (5G on Unlicensed Band): Coexistence for 3GPP 5G and IEEE802.11ad WiGig", European Wireless, Dresden, Germany, May 2017.
43. **Conference:** Petra Vizzareta, Massimo Condoluci, Carmen Mas Machuca, Toktam Mahmoodi, Wolfgang Kellerer, "QoS-driven Function Placement Reducing Expenditures in NFV Deployments", IEEE ICC 2017, Paris, France, May 2017.
42. **Conference:** Menglan Jiang, Massimo Condoluci, Toktam Mahmoodi, "Network slicing in 5G: an auction-based model", IEEE ICC 2017, Paris, France, May 2017.
41. **Journal:** Maria A. Lema, Andres Laya, Toktam Mahmoodi, Maria Cuevas, Joachim Sachs, Jan Markendahl and Mischa Dohler, "Business Case and Technology Analysis for 5G Low Latency Applications", IEEE Access, vol. 5, no. 1, 2017, pp. 5917-5935. doi: 10.1109/ACCESS.2017.2685687.
40. **Journal:** Luis Guijarro, Vicent Pla, Jose R. Vidal, Maurizio Naldi, Toktam Mahmoodi, "Wireless Sensor Network-Based Service Provisioning by a Brokering Platform", Sensors, vol. 17, no. 5: 1115, May 2017, doi:10.3390/s17051115.
39. **Conference:** Ghizlane Mountaser, Maria Lema, Toktam Mahmoodi, Mischa Dohler, "On the feasibility of MAC and PHY split in Cloud RAN", IEEE WCNC 2017, San Francisco, CA, USA, March 2017.
38. **Conference:** Almulla Hesham, Fragkiskos Sardis, Stan Wong, Toktam Mahmoodi, Malikaarjun Tatipamula, "A Simplified Network Access Control Design and Implementation for M2M Communication Using SDN". IEEE WCNC 2017 Workshops, San Francisco, CA, USA, March 2017.

## **2016**

37. **Conference:** Maria Lema, Toktam Mahmoodi, Mischa Dohler, "On the Performance Evaluation of Enabling Architectures for Uplink and Downlink Decoupled Networks", in Proc. IEEE GLOBECOM 2016, Washington, DC, USA, December 2016.
36. **Journal:** Toktam Mahmoodi, Vivek Kulkarni, Wolfgang Kellerer, Peter Mangan, Florian Zeiger, Spiros Spirou, Ioannis Askoxylakis, Xavier Vilajosana, Hans Joachim Einsiedler, Jurgen Quittek. "VirtuWind: Virtual and Programmable Industrial Network Prototype Deployed in

*Operational Wind Park*", Transactions on Emerging Telecommunications Technologies, vol. 27, no. 9, September 2016.

35. **Journal:** Massimo Condoluci, Giuseppe Araniti, Toktam Mahmoodi, Mischa Dohler, "Enabling the IoT Machine Age with 5G: Machine-Type Multicast Services for Innovative Real-Time Applications", IEEE Access, vol. 4, May 2016.

34. **Conference:** Menglan Jiang, Massimo Condoluci, Toktam Mahmoodi, "Network slicing management & prioritization in 5G mobile systems", in Proc. European Wireless, Oulu, Finland, May 2016.

33. **Conference:** George Petropoulos, Fragkiskos Sardis, Spiros Spirou, Toktam Mahmoodi, "Software-Defined Inter-networking: Enabling Coordinated QoS Control across the Internet", in Proc. IEEE Int'l. Conference on Telecommunications (ICT), Thessaloniki, Greece, May 2016.

32. **Conference:** Fragkiskos Sardis, Massimo Condoluci, Toktam Mahmoodi, Mischa Dohler, "Can QoS be dynamically manipulated by the end-device initialization?", in Proc. IEEE ICC, Kuala Lumpur, Malaysia, May 2016.

31. **Journal:** Menglan Jiang, Toktam Mahmoodi, "Traffic Management in 5G Mobile: Selfish Users and Fair Network", Transactions on Networks and Communications, Volume 4, Issue 1, February 2016.

## **2015**

30. Albert Morales, Adnan Aijaz, Toktam Mahmoodi, "Taming Mobility Management Functions in 5G: Handover Functionality as a Service (FaaS)", IEEE GLOBECOM 2015, San Diego, US, December 2015.

29. Massimo Condolucci, Fragkiskos Sardis, Toktam Mahmoodi, "Softwarization and Virtualization in 5G Networks for Smart Cities", EAI International Conference on Cyber physical systems, IoT and sensors Networks (CYCLONE), Rome, Italy, October 2015.

## **2014**

28. Toktam Mahmoodi, Srinu Seetharaman "Traffic Jam: Handling the Increasing Volume of Mobile Data Traffic", IEEE Vehicular Technology, Volume 9, Issue 3, September 2014.

27. Mojdeh Amani, Toktam Mahmoodi, Malikaarjun Tatipamula, Hamid Aghvami "SDN-based Data Offloading for 5G Mobile Networks", ZTE communications, Issue 2, July 2014.

26. Mojdeh Amani, Toktam Mahmoodi, Malikaarjun Tatipamula, Hamid Aghvami "Programmable policies for Data Offloading in LTE Network", IEEE ICC, Sydney, Australia, June 2014.

25. Toktam Mahmoodi, Srinu Seetharaman, "On Using a SDN-based Control Plane in 5G Mobile Networks", WWRF 32nd, Marrakech, Morocco, May 2014.

## **2013**

24. Nika Naghavi, Vasilis Friderikos, Toktam Mahmoodi, Hamid Aghvami, "Admission Control Scheme for Proxy Mobile IPv6 Networks", IEEE ICC, Budapest, Hungary, June 2013.

23. Toktam Mahmoodi, "Network Selection for Autonomous Mobile Devices", Wireless on Demand Network Systems and Services (WONS), Banff, Canada, March 2013.

22. Toktam Mahmoodi, Vasilis Friderikos, Hamid Aghvami, "Using Traffic Asymmetry to Enhance TCP Performance", Computer Networks, vol. 57, pp. 317-329, January 2013.

## **2012**

21. Georgia Sakellari, Christina Morfopoulou, Toktam Mahmoodi, Erol Gelenbe, "Using Energy Criteria to Admit Flows in a Wired Network", the 27th International Symposium on Computer and Information Sciences (ISCIS), Paris, France, October 2012.

20. Toktam Mahmoodi, Manuel Roveri, "Identifying Network Failure via Detecting Changes in Power Profile", IEEE PerCom, Lugano, Switzerland, March 2012.

## **2011**

19. **Book Chapter:** "Cross-Layer Optimisation for Applications using TCP over WLAN", in "Cross Layer Designs in WLAN Systems", Toktam Mahmoodi, Vasilis Friderikos, Hamid Aghvami, Troubador Publishing Ltd, Leicester, 2011, ISBN: 9781848768109.

18. Dang Minh Quan, Robert Basmadjian, Herman de Meer, Ricardo Lent, Toktam Mahmoodi, Domenico Sannelli, Federico Mezza, Luigi Telesca, Corenten Dupont, "Energy Efficient Resource Allocation Strategy for Cloud Data Centres", the 26th International Symposium on Computer and Information Sciences (ISCIS), London, UK, September 2011.

17. Erol Gelenbe, Toktam Mahmoodi, "Distributed Energy-Aware Routing of Traffic", the 26th International Symposium on Computer and Information Sciences (ISCIS), London, UK, September 2011.

16. Erol Gelenbe, Toktam Mahmoodi, "Energy-Aware Routing Protocol in the Cognitive Packet Network", Int. Conf. on Smart Grids, Green Communications and IT Energy-aware Technologies, Venice, Italy, May 2011 (**Best Paper award**).

15. Toktam Mahmoodi, "Energy-Aware Routing Protocol in the Cognitive Packet Network", Performance Evaluation, vol. 63, no. 4, pp. 338-346, April 2011.

## **2010**

14. Toktam Mahmoodi, Vasilis Friderikos, Oliver Holland, Hamid Aghvami, "Optimal Design of FEC for Fairness Maximisation among TCP Flavours over Wireless Networks", IET Communications, Vol. 4, Issue 10, pp. 1196 - 1206, July 2010.

13. Toktam Mahmoodi, Erol Gelenbe, "Energy Efficient Routing Protocols", Next Generation Networking, Abingdon, UK, July 2010.

12. Toktam Mahmoodi, Vasilis Friderikos, Oliver Holland, Hamid Aghvami, "Balancing sum rate and TCP Throughput in OFDMA-Based Wireless Networks", IEEE ICC, Cape Town, South Africa, May 2010 (**Best Paper award**).

## **2009**

11. Toktam Mahmoodi, Vasilis Friderikos, A. Hamid Aghvami, "Allowing Short-Lived TCP Sessions to Ramp-up in Broadband Wireless Networks", IEEE GLOBECOM, Hawaii, USA, December 2009.

10. A. Haffiz Shuaib, Toktam Mahmoodi, Hamid Aghvami, "A Timed Petri Net Model for the IEEE 802.15.4 CSMA-CA Process", IEEE PIMRC, Tokyo, Japan, September 2009.

9. Toktam Mahmoodi, Vasilis Friderikos, Oliver Holland, A. Hamid Aghvami, "TCP-aware Resource Allocation in OFDMA-Based Wireless Networks", International Workshop on Cross-Layer Design (IWCLD'09), Palma, Spain, June 2009.

8. Toktam Mahmoodi, Vasilis Friderikos, Hamid Aghvami "TCP-aware Resource Allocation in Wireless Networks via Utility Maximisation", WWRF 22nd, Paris, France, May 2009.

## **2008**

7. Toktam Mahmoodi, Vasilis Friderikos, Oliver Holland, Hamid Aghvami , "*Cross Layer Optimization to Maximize Fairness among TCP Flows of different TCP Flavors*", IEEE GLOBECOM, New Orleans, LA, USA, November 2008.

6. Toktam Mahmoodi, Oliver Holland, Vasilis Friderikos, Hamid Aghvami, "*Cross-Layer Optimization of the Link-Layer based on the Detected TCP Flavor*", IEEE PIMRC, Cannes, France, September 2008.

5. Toktam Mahmoodi, Vasilis Friderikos, "*Effect of Heterogeneous TCP versions on HTTP performance in Wireless Networks*", LTE-Advanced workshop, Vodafone UK, July 2008 (poster presentation).

4. Toktam Mahmoodi, Oliver Holland, Vasilis Friderikos, Hamid Aghvami, "*Cross-Layer Optimization: Enhance end-to-end performance based on the Detected TCP Flavor*", WWRF 20th, Ottawa, Canada, April 2008.

3. Oliver Holland, Toktam Mahmoodi, Vasilis Friderikos, Hamid Aghvami, "*Cross-Layer Optimization: Network Layer Involvement*", WWRF 20th, Ottawa, Canada, April 2008.

## **2007**

2. Oliver Holland, Toktam Mahmoodi, A. Hamid Aghvami, "*A Software Download Management Module*", IEEE VTC-Fall, Baltimore, MD, USA, October 2007.

1. Toktam Mahmoodi, Vasilis Friderikos, Oliver Holland, Hamid Aghvami, "*Cross-Layer Design to Improve Wireless TCP Performance with Link-Layer Adaptation*", IEEE VTC-Fall, Baltimore, MD, USA, October 2007.