# List of Publications

Ari Viinikainen

## 1. Articles in international scientific journals with referee practise

J6 J. Joutsensalo, A. Viinikainen, M. Wikström and T. Hämäläinen, "Bandwidth allocation and pricing in multinode network", International Journal of Electronics and Communications, Volume 62, Issue 3, 3 March 2008, Pages 185-192.

J5 J. Joutsensalo, A. Viinikainen, T. Hämäläinen and M. Wikström , "Pricing Based Adaptive Scheduling Method for Bandwidth Allocation", International Journal of Electronics and Communications, Volume 61, Issue 2, 1 February 2007, Pages 118-126.

J4 A. Viinikainen, J. Puttonen, M. Sulander, T. Hämäläinen, T. Ylönen and H. Suutarinen, "Flow-based Fast Handover Method for Mobile IPv6 Environment - Implementation and Analysis", Computer Communications, Volume 29, Issue 16, More Than a Protocol for Next Generation Internet, 12 October 2006, pp. 3051-3065.

J3 J. Puttonen, A. Viinikainen, M. Sulander and T. Hämäläinen, "A Fast Handover Method for Mobile IPv6 Networks", Journal of Internet Technology, Special Issue on Heterogeneous IP Networks, No.3, Volume 6, July 2005, ISSN 1607-9264, pp. 305 - 312.

J2 T. Hämäläinen, J. Siltanen, A. Viinikainen and J. Joutsensalo, "Adaptive Tuning of Scheduling Parameters", WSEAS Transactions on Computers, Issue 1, Volume 3, January 2004, ISSN 1109-2750, pp. 75-78.

J1 T. Hämäläinen, K. Kaario, J. Joutsensalo and A. Viinikainen, "Traffic Optimization with Iterative Weighted Scheduling Method", WSEAS Transactions on Communications, Issue 4, Volume 2, October 2003, ISSN 1109-2742, pp. 404-409.

## 2. Articles in international scientific conference proceedings with referee practice

C17 A. Viinikainen, "Packet Scheduling and Pricing Based on Inflicted Delay", Proceedings of the International Conference on E-business and Telecommunication Networks (ICETE'06), Setùbal, Portugal, August 7 - 10, 2006, pp.113-117.

C16 L. Kannisto, A. Viinikainen, J. Joutsensalo and T. Hämäläinen, "Adaptive Algorithm for Revenue Maximization in WFQ Scheduler", Proceedings of the IEEE 20th International Conference on Advanced Information Networking and Applications (AINA2006), Vienna, Austria, April 18 - 20, 2006, Volume 1, pp. 339-346.

C15 J. Joutsensalo, A. Viinikainen, M. Wikström and T. Hämäläinen, "Bandwidth allocation and pricing in multimode network", Proceedings of the IEEE 20th International Conference on Advanced Information Networking and Applications (AINA2006), Vienna, Austria, April 18 - 20, 2006, Volume 1, pp. 573-578.

C14 T. A. Ghebregziabher, J. Puttonen, T. Hämäläinen and A. Viinikainen, "Security Analysis of Flow-Based Fast Handover Method for Mobile IPv6 Networks", Proceedings of the IEEE 20th International Conference on Advanced Information Networking and Applications (AINA2006), Vienna, Austria, April 18 - 20, 2006, Volume 2, pp. 849-853.

C13 J. Joutsensalo, A. Viinikainen, L. Kannisto and T. Hämäläinen, "Packet Scheduling with Revenue Optimization and Weighted Delay Minimization", Proceedings of the IEEE GLOBECOM 2005, St. Louis, USA, Nov. 28 - Dec. 2, 2005, Volume 1, pp. 513-517.

C12 A. Viinikainen, J. Vuori and Fei Liu, "A new Modulation Scheme for GSM EDGE", Proceedings of the IEEE TENCON 2005, Melbourne, Australia, Nov. 21 - 24, 2005, pp. 1707 - 1710.

C11 L. Kannisto, A. Viinikainen, J. Joutsensalo and T. Hämäläinen, "Optimized pricing and closed form algorithm for WFQ scheduling", Proceedings of the IEEE TENCON 2005, Melbourne, Australia, Nov. 21 - 24, 2005, pp. 1290 - 1295.

C10 A. Viinikainen, S. Kaščák, J. Puttonen and M. Sulander, "Fast Handover for Upstream Traffic in Mobile IPv6", Proceedings of the IEEE 62nd Semiannual Vehicular Technology Conference Fall 2005 (VTC'F05), Dallas, Texas, USA, September 25-28, 2005, Volume 2, pp. 802 - 806.

C9 A. Viinikainen, J. Vuori and Fei Liu, "$N$FSK/$L$PSK Modulation Scheme for EDGE", Proceedings of the IEEE 62nd Semiannual Vehicular Technology Conference Fall 2005 (VTC'F05), Dallas, Texas, USA, September 25-28, 2005, Volume 4, pp. 2454 - 2458.

C8 J. Puttonen, H. Suutarinen, T. Ylönen, A. Viinikainen, M. Sulander and T. Hämäläinen, "Flow-based Fast Handover Performance Analysis in Mobile IPv6 for Linux Environment", Proceedings of the IEEE 61st Semiannual Vehicular Technology Conference Spring 2005 (VTC'S05), Stockholm, Sweden, May 30 - June 1, 2005, Volume 4, pp. 2575 - 2579.

C7 J. Joutsensalo, A. Viinikainen, T. Hämäläinen and J. Siltanen "Bandwidth Allocation, Bit Rate and Pricing", Proceedings of the IEEE International Conference on Communications (ICC'05), Soul, Korea, May 16-20, 2005, Volume 1, pp. 379 - 383.

C6 J. Joutsensalo, A. Viinikainen, T. Hämäläinen and M. Wikström , "Bandwidth Allocation and Pricing for Telecommunications Network", Proceedings of the Next Generation Internet Networks (NGI2005), Rome, Italy, April 18-20, 2005, pp. 165 - 172.

C5 A. Viinikainen, J. Joutsensalo, M. Wikström and T. Hämäläinen, "Pricing and Bandwidth Allocation for the Next Generation Networks", Proceedings of the International Conference on Advanced Communication Technology (ICACT'05), Phoenix Park, Korea, February 21-23, 2005, Volume 1, pp. 191 - 195.

C4 J. Puttonen, A. Viinikainen, M. Sulander and T. Hämäläinen, "Performance Evaluation of the Flow-based Fast Handover Method for Mobile IPv6 Network", Proceedings of the IEEE 60th Vehicular Technology Conference Fall 2004 (VTC'F04), Los Angeles, USA, September 26-29, 2004, Volume 6, pp. 4437 - 4441.

C3 A. Viinikainen, J. Joutsensalo, M. Pääkkönen and T. Hämäläinen, "Packet Scheduling Algorithm with Weight Optimization", Proceedings of the International Conference on E-business and Telecommunication Networks (ICETE'04), Setùbal, Portugal, August 24-28, 2004, Volume 2, pp. 127 - 133.

C2 J. Puttonen, A. Viinikainen, M. Sulander and T. Hämäläinen, "An Analysis of the Flow-Based Fast Handover Method For Mobile IPv6 Network", Proceedings of the International Conference on E-business and Telecommunication Networks (ICETE'04), Setùbal, Portugal, August 24-28, 2004, pp. 187 - 190.

C1 M. Sulander, T. Hämäläinen, A. Viinikainen and J. Puttonen, "Flow-Based Fast Handover Method for Mobile IPv6 Network", Proceedings of the IEEE 59th Vehicular Technology Conference Spring 2004 (VTC'S04), Milan, Italy, May 17-19, 2004, Volume 5, pp. 2447 - 2451.

## 3. Articles in (inter)national conference proceedings without referee practice

R2 A. Suihkonen, J. Vuori and A. Viinikainen, "Carrier Recovery Algorithm for GMSK Modulation", Proceedings of the Finnish Wireless Communication Workshop 2001, Tampere, Finland, October 23-24, 2001, pp. 153 - 154.

R1 A. Viinikainen, "RF Emission Measurements of an ISM-Band Radio System", Proceedings of the Finnish Wireless Communications Workshop 2000, Oulu, Finland, May 29-30, 2000, pp. 116 - 119.

## 4.  Theses

- A. Viinikainen, "Quality of Service and Pricing in Future Multiple Service Class Networks",  Doctoral Thesis,  2006.  Includes publications J1, J2, J3, J4, J5, C1, C3, C4, C8, C10, C11, C13, C15, C16 and C17.

- A. Viinikainen, "Pricing Based Packet Scheduling and Quality of Service in Multiple Service Class Networks",  Licentiate's Thesis,  2005.  Includes publications J1, J2, C3, C5, C6 and C7.

- A. Viinikainen,  "Device driver of an ARCNET network card for LabVIEW in Windows NT environment,"  Master's thesis (in Finnish),  1997.

## 5.  Book chapters

B1  J. Puttonen, A. Viinikainen, M. Sulander and T. Hämäläinen, "A Fast Handover Method for Real Time Multimedia Services", Chapter XIII in the *Handbook of Research on Mobile Multimedia*, edited by I. K. Ibrahim, Idea Group Inc. USA, May 2006, ISBN 1-59140-866, pp. 179-190.

## 7.  Reviews

- Journal of Internet Technology, Special Issue on Heterogeneous IP Networks

- Globecom 2005

- Handbook of Research on Mobile Multimedia, edited by I. K. Ibrahim, Idea Group Inc. USA, 2005.