

Articles in referred journals

Published or accepted

1. Optimum Pilot-to-Data Power Ratio for Partial RAKE Receiver in Nakagami- m Fading Channels
K. Jitvanichphaibool, **M. Saquib** and O. Popescu
IEEE Transactions on Wireless Communications (accepted, October 2008)
2. Novel Automatic Modulation Classification Using Cumulant Features for Communications via Multi-path Channels
H.-C. Wu, **M. Saquib** and Z. Yun
IEEE Transactions on Wireless Communications, **7** 8 (August 2008) 3098 - 3105
3. Effects of Time-Variations in Wireless Channels on the Two Different Fade-Resistant CDMA Systems
Y. Na and **M. Saquib**
IEEE Transactions on Wireless Communications, **7** 8 (August 2008) 2923 - 2929
4. Sequential Opportunistic Decoding for Spread Spectrum Wireless Networks
O. Jegbefume, **M. Saquib** and M. Tacca
IEEE Transactions on Wireless Communications, **6** 12 (December 2007) 4513 - 4523
5. Interference Mitigation in Aeronautical Telemetry Systems Using Kalman Filter
O. Popescu, **M. Saquib**, D. Popescu and M. Rice
IEEE Transactions on Aerospace and Electronic Systems, **43** 4 (October 2007) 1624 - 1630
6. Hot-carrier Effects in Wireless Communication Systems Built on Short-Channel MOSFET Devices
H.-C. Wu, S. R. Herlekar, **M. Saquib** and A. Srivastava
IEEE Transactions on Wireless Communications, **6** 7 (July 2007) 2402 - 2406
7. Pilot-aided Multicode CDMA Transmission over Wireless Channels
Y. Na, **M. Saquib** and G. Mandyam
IEEE Transactions on Signal Processing, **55** 7 (July 2007) 3823 - 3836
8. Analysis of the Channel Energy Capture in Ultra-Wide-Band Transmitted Reference Systems
Y. Na and **M. Saquib**
IEEE Transactions on Communications, **55** 2 (February 2007) 262 - 265
9. Performance of a Hybrid Receiver in the Downlink Multicell CDMA System
M. H. Islam, **M. Saquib** and N. Al-Dhahir
IEEE Transactions on Signal Processing, **55** 2 (February 2007) 645 - 655

10. [Fade-resistant CDMA Transmission and Reception over Time-varying Wireless Channels](#)
M. Saquib, S. Das, G. Mandyam and M. Win
IEEE Transactions on Wireless Communications, **5** 5 (May 2006) 1197 - 1206
11. [Pilot-aided Chip-Interleaved DS-CDMA Transmission over Time-varying Channels](#)
Y. Na, **M. Saquib** and M. Z. Win
IEEE Journal on Selected Areas in Communications, **1** 24 (January 2006) 151 - 160
12. [Soft-length Symbol Protocols for Wireless Networks](#)
O. Jegbefume, **M. Saquib** and M. Z. Win
IEEE Communications Letters, **9** 9 (September 2005) 793 - 795
13. [Space-Time Trellis-Coded Transmissions with Parallel Sequences over Time-Varying Channels](#)
K. Jitvanichphaibool, **M. Saquib** and N. Al-Dhahir
IEEE Communications Letters, **8** 9 (September 2004) 558 - 560
14. [Fade Resistant Transmission over Time-Varying Wireless Channels](#)
M. Saquib and M. Win
IEEE Signal Processing Letters, **11** 6 (June 2004) 561 - 564
15. [Near-Far Resistance of Linear Receivers in Chip Asynchronous CDMA Systems](#)
M. Saquib
IEEE Transactions on Communications **51** 12 (December 2003) 1975 - 1978
16. [Analysis of a Partial Decorrelator in a Multi-cell DS/CDMA System](#)
M. Saquib and R. Yates
IEEE Transactions on Communications **50** 12 (December 2002) 1895 - 1898
17. [Joint Transmitter-Receiver Optimization in the Downlink CDMA Systems](#)
M. Saquib and Md. H. Islam
Eurasip Journal on Applied Signal Processing; Special Issue on 3G Wireless Communications and Beyond 8 (August 2002) 807 - 817
18. [An Asynchronous Multi-rate Decorrelator](#)
M. Saquib, R. Yates and A. Ganti
IEEE Transactions on Communications **48** 5 (May 2000) 739 - 742
19. [Power Control for an Asynchronous Multi-rate Decorrelator](#)
M. Saquib, R. Yates and A. Ganti
IEEE Transactions on Communications **48** 5 (May 2000) 804 - 812
20. [Decorrelating Detectors for a Dual Rate Synchronous DS/CDMA System](#)
M. Saquib, R. Yates and N. Mandayam
Wireless Personal Communications **9** (1998) 197 - 216

21. [Decision Feedback Decorrelator for a Dual Rate Synchronous CDMA](#)

M. Saquib, R. Yates and N. Mandayam

ACM Journal of Wireless Networks, Special Issue on Multiuser Detection in Wireless Communications
4 (1998) 497 - 506

Submitted

22. [A Fault-Tolerant Interconnect Mechanism for NMR Nano-Architectures](#)

A. Namazi, M. Nourani and **M. Saquib**

ACM Journal on Emerging Technologies in Computing (JETC); special issue NANOARCH 2008 (submitted, October 2008)

23. [Performance Analysis of Spread Spectrum Protocols with Adaptive Spreading](#)

O. Jegbefume and **M. Saquib**

IEEE Transactions on Wireless Communications (submitted, November 2008)

24. [Interference Cancellation and Signal Direction Finding with Low Complexity](#)

L. D. Schmieder, D. Mellon and **M. Saquib**

IEEE Transactions on Aerospace and Electronic Systems (asked to revise and resubmit, September 2008)

Articles in conference proceedings

1. [Performance Analysis Framework and Vertical Handover Triggering Algorithms for Voice over WLAN/Cellular Network](#)
T. Ali, **M. Saquib** and C. Sengupta
Proceedings of Wireless Communications and Networking Conference, Las Vegas, NV: March 31 - April 03; IEEE (2008)
2. [Artificial Code Puncturing for Wireless Networks](#)
O. Jegbefume, **M. Saquib** and M. Torlak
Proceedings of Wireless Communications and Networking Conference, Las Vegas, NV: March 31 - April 03; IEEE (2008)
3. [Soft-Length Frame Protocols for Wireless Networks](#)
O. Jegbefume and **M. Saquib**
Global Telecommunications Conference, Washington, DC: November 26 - 30; IEEE (2007)
4. [A Robust Interconnect Mechanism for Nanometer VLSI](#)
A. Namazi, M. Nourani and **M. Saquib**
Proceedings of International Test Synthesis Workshop (ITSW) San Antonio, TX: March (2007)
5. [Reliable Interconnect Grid for Ultra Deep Submicron](#)
A. Namazi, M. Nourani and **M. Saquib**
Proceedings of Fifth IEEE Dallas Circuits and Systems (DCAS) Dallas, TX: October (2006)
6. [Kalman Filter For Interference Mitigation and Channel Equalization in Aeronautical Telemetry](#)
O. Popescu, **M. Saquib**, D. Popescu and M. Rice
Proceedings of IEEE Military Communications Conference Washington, DC: 1 - 4 October; MILCOM (2006)
7. [Signal Processing Aided Opportunistic Decoding for Wireless Networks](#)
O. Jegbefume, **M. Saquib** and M. Tacca
Global Telecommunications Conference, San Francisco, CA: 27 November - 1 December; IEEE (2006)
8. [Interference Mitigation and Channel Equalization for ARTM Tier-I Waveforms using Kalman Filter](#)
O. Popescu, **M. Saquib**, D. Popescu and M. Rice
Proceedings of International Telemetry Conference San Diego, CA: 23 - 26 October; ITC (2006)
9. [Exploitation of Time-Variations in the Wireless Channels using Two Different CDMA Systems](#)
Y. Na and **M. Saquib**
Proceedings of International Conference on Communications, Istanbul, Turkey: 11-15 June; IEEE (2006)
10. [Reduced-Complexity Receivers for the Downlink of a Multicell CDMA System with Multiple Antennas](#)
M. H. Islam, **M. Saquib** and N. Al-Dhahir

- Proceedings of International Conference on Communications*, Istanbul, Turkey: 11-15 June; IEEE (2006)
11. [Optimum Pilot-to-Data Power Ratio for Partial RAKE Receiver in Nakagami Fading Channel](#)
K. Jitvanichphaibool and **M. Saquib**
Proceedings of International Conference on Communications, Istanbul, Turkey: 11-15 June; IEEE (2006)
 12. [Transport Layer FEC for Low-latency Wireless Video Transmission](#)
T. M. Ali, **M. Saquib**, F. Chebil and R. Kurceren
Proceedings of First International Conference on Next-Generation Wireless Systems Dhaka, Bangladesh: 2 - 4 January; IEEE (2006)
 13. [Interference Cancellation using ARTM Tier-1 Waveforms in Aeronautical Telemetry](#)
T. M. Ali, **M. Saquib** and M. Rice
Proceedings of International Telemetry Conference Las Vegas, NV: 24 - 27 October; ITC (2005)
 14. [On the Channel Energy Capture in Ultra-Wide-Band Transmitted Reference Systems](#)
Y. Na and **M. Saquib**
Proceedings of 62nd Vehicular Technology Conference Dallas, TX: 25 - 28 September; IEEE (2005)
 15. [A Reduced Complexity Hybrid Receiver for the Downlink Multicell CDMA System](#)
M. H. Islam, **M. Saquib** and N. Al-Dhahir
Proceedings of 62nd Vehicular Technology Conference Dallas, TX: 25 - 28 September; IEEE (2005)
 16. [Chip-Interleaved DS-CDMA Transmission over Time-varying Channels](#)
Y. Na, **M. Saquib** and M. Z. Win
Proceedings of 62nd Vehicular Technology Conference Dallas, TX: 25 - 28 September; IEEE (2005)
 17. [Pilot-aided Chip-Interleaved DS-CDMA Transmission over Time-varying Channels \(invited paper\)](#)
Y. Na, **M. Saquib** and M. Z. Win
Proceedings of Noise in Communications Systems, Austin, TX: 23-26 May; International Society for Optical Engineering (2005)
 18. [Multicode CDMA Transmission over Time-Varying Multipath Channels](#)
Y. Na, **M. Saquib** and G. Mandyam
Proceedings of Wireless Communications and Networking Conference, New Orleans, LA: 13 - 17 March; IEEE (2005)
 19. [Fade Resistant Transmission in Time-Varying Wireless Channels using Parallel Sequences](#)
M. Saquib, S. Das, G. Mandyam and M. Win
Proceedings of International Conference on Communications, Paris, France: 20 - 24 June; IEEE (2004)
 20. [Capacity Enhancement of Wireless Systems using Soft-length Symbol](#)
O. Jegbefume, **M. Saquib** and M. Win
Proceedings of International Conference on Communications, Paris, France: 20 - 24 June; IEEE (2004)

21. [Parallel Symbol Transmission over Time-Varying Nakagami Fading Wireless Channels](#)
M. Saquib and M. Win
Proceedings of Military Communications Conference, USA: October; IEEE Milcom (2003)
22. [Capacity Enhancement of Wireless Systems using Soft-length Symbols](#)
(short paper)
O. Jegbefume, **M. Saquib** and M. Win
Proceedings of High Speed Networking (HSN) Workshop (in Conjunction with Infocom), USA: March; (2003)
23. [Parallel Sequence Transmission for High Speed UWB](#)
M. Saquib and M. Win
Proceedings of the Conference on UWB, Korea: December; Korea Electronics Technology Institute, Korea (2002)
24. [Optimum Transmitters and Receivers for CDMA Systems](#)
M. Saquib and Md. H. Islam
Proceedings of the Thirty-fifth Asilomar Conference on Signals, Systems and Computers, CA, USA: 4-7 November; IEEE 35 (2001) 1606 - 1610
25. [Near-Far Resistance of Linear Receivers in Chip Asynchronous CDMA Systems](#)
M. Saquib
Proceedings of International Conference on Communications, Helsinki, Finland: 11-14 June; IEEE (2001) 2747 - 2751
26. [Joint Transmitter-Receiver Optimization in the Down-link of CDMA Systems](#)
M. Saquib, Md. H. Islam and A. Sampath
Proceedings of the Conference on Information Science and Systems, Johns Hopkins University, Baltimore, MD: March; (2001)
27. [Robustness of the Linear Receivers against the Near-Far Problem in Chip Asynchronous Random CDMA Systems](#)
M. Saquib
Proceedings of the Conference on Information Science and Systems, Johns Hopkins University, Baltimore, MD: March; (2001)
28. [Power Control and Transmit Diversity in Multi-path CDMA Systems](#)
M. Saquib, Md. H. Islam and S. Kumar
Wireless Communications and Networking Conference, Chicago, IL: 23-28 September; IEEE (2000) 613 - 618
29. [Analysis of a Partial Decorrelator in a Multi-cell DS/CDMA System](#)
M. Saquib and R. Yates
Global Telecommunications Conference, Brazil: December; IEEE (1999) 2193 - 2197

30. [Power Control for an Asynchronous Multi-cell Decorrelator \(invited paper\)](#)
M. Saquib, R. Yates and A. Ganti
Thirty-fifth Annual Allerton Conference on Communication, Control and Computing, Monticello, IL: June; Allerton (1997)
31. [A Two Stage Decorrelator for a Dual Rate Synchronous DS/CDMA System](#)
M. Saquib and R. Yates
Proceedings of Supercomm/IEEE International Conference on Communications, Montreal, Canada: 8 - 12 June; IEEE (1997) 334 - 338
32. [An Asynchronous Decentralized Multi-rate Decorrelator](#)
M. Saquib, R. Yates and A. Ganti
Proceedings of the Conference on Information Science and Systems, Johns Hopkins University, Baltimore, MD: March; IEEE (1997)
33. [A Decision Feedback Decorrelator for a Dual Rate Synchronous DS/CDMA System](#)
M. Saquib, R. Yates and N. Mandayam
Proceedings of Global Telecommunications Conference, London, UK: 18-22 November; IEEE (1996) 1804 - 1808
34. [Decorrelating Detectors for a Dual Rate Synchronous DS/CDMA System](#)
M. Saquib, R. Yates and N. Mandayam
Proceedings of 46th Vehicular Technology Conference, Atlanta, GA: 28 April - 1 May; IEEE (1996) 377 - 381
35. [Optimal Call Admission to a Mobile Cellular Network](#)
M. Saquib and R. Yates
Proceedings of 45th Vehicular Technology Conference, Chicago, IL,: 25 - 28 July; IEEE **45** (1995) 190 - 194