

Articles in refereed journals

Published or accepted

1. Multipath Analysis and Mitigation for Wideband Aeronautical Telemetry
I. Williams and **M. Saquib**
IEEE Transactions on Aerospace and Electronic Systems (accepted, December 2011)
2. Analytical Framework for WLAN-Cellular Voice Handover Evaluation
T. Ali and **M. Saquib**
IEEE Transactions on Mobile Computing (accepted, December 2011)
3. Performance Evaluation of WLAN/Cellular Media Access for Mobile Voice Users under Random Mobility Models
T. Ali and **M. Saquib**
IEEE Transactions on Wireless Communications **10** 5 (October 2011) 3241 - 3254
4. Pseudo Random Binary Phase Offset Scheme for Multi-carrier Delay Diversity Modulation
A. Sadeque and **M. Saquib**
IEEE Transactions on Wireless Communications, **10** 5 (May 2011) 1495 - 1503
5. A Fault-Tolerant Interconnect Mechanism for NMR Nano-Architectures
A. Namazi, M. Nourani and **M. Saquib**
IEEE Transactions on Very Large Scale Integration Systems, **18** 10 (October 2010) 1433 - 1446
6. Interference Cancellation and Signal Direction Finding with Low Complexity
L. D. Schmieder, D. Mellon and **M. Saquib**
IEEE Transactions on Aerospace and Electronic Systems **46** 3 (July 2010) 1052 - 1063
7. Fixed and Floating Point Implementations of Linear Adaptive Techniques for Predicting Physiological Hand Tremor in Microsurgery
B. Robinson, D. Hernandez and **M. Saquib**
IEEE Journal of Selected Topics in Signal Processing; Model Order Selection in Signal Processing, **4** 3 (June 2010) 659 - 667
8. Game Theoretic Approach to Joint Transmitter Adaptation and Power Control in Wireless Systems
D. Popescu, D. Rawat, O. Popescu and **M. Saquib**
IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics; Special Issue: Game Theory, **40** 3 (June 2010) 675 - 682
9. Performance Analysis of Spread Spectrum Protocols with Adaptive Spreading

- O. Jegbefume, **M. Saquib** and M. Torlak
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10. [Optimum Pilot-to-Data Power Ratio for Partial RAKE Receiver in Nakagami- \$m\$ Fading Channels](#)
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11. [Novel Automatic Modulation Classification Using Cumulant Features for Communications via Multipath Channels](#)
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12. [Effects of Time-Variations in Wireless Channels on the Two Different Fade-Resistant CDMA Systems](#)
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13. [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
14. [Interference Mitigation in Aeronautical Telemetry Systems Using Kalman Filter](#)
O. Popescu, **M. Saquib**, D. Popescu and M. Rice
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15. [Hot-carrier Effects in Wireless Communication Systems Built on Short-Channel MOSFET Devices](#)
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16. [Pilot-aided Multicode CDMA Transmission over Wireless Channels](#)
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17. [Analysis of the Channel Energy Capture in Ultra-Wide-Band Transmitted Reference Systems](#)
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18. [Performance of a Hybrid Receiver in the Downlink Multicell CDMA System](#)
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20. [Pilot-aided Chip-Interleaved DS-CDMA Transmission over Time-varying Channels](#)

21. [Soft-length Symbol Protocols for Wireless Networks](#)
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22. [Space-Time Trellis-Coded Transmissions with Parallel Sequences over Time-Varying Channels](#)
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23. [Fade Resistant Transmission over Time-Varying Wireless Channels](#)
M. Saquib and M. Win
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24. [Near-Far Resistance of Linear Receivers in Chip Asynchronous CDMA Systems](#)
M. Saquib
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25. [Analysis of a Partial Decorrelator in a Multi-cell DS/CDMA System](#)
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26. [Joint Transmitter-Receiver Optimization in the Downlink CDMA Systems](#)
M. Saquib and Md. H. Islam
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27. [An Asynchronous Multi-rate Decorrelator](#)
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28. [Power Control for an Asynchronous Multi-rate Decorrelator](#)
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29. [Decorrelating Detectors for a Dual Rate Synchronous DS/CDMA System](#)
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30. [Decision Feedback Decorrelator for a Dual Rate Synchronous CDMA](#)
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31. [A Closed Form Expression of the Noise Subspace and its Applications to Passive Direction Finding](#)
E. Santiago and **M. Saquib**
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32. [Effects of ADC Quantization Noise on MIMO Radar Imaging](#)
J. Sung, **M. Saquib** and Ken O
IEEE Transactions on Signal Processing (submitted, December 2011)
33. [MIMO Radar Imaging for Target Detection and Localization in Sensor Networks](#)
A. Sadeque, T. Ali, **M. Saquib** and M. Ali
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1. [Sliding Window Technique for Dynamic Spectrum Sensing of an Asynchronous Primary User](#)
R. Hasan and **M. Saquib**
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2. [WLAN/Cellular Handover Analysis for Different Mobility Models](#)
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3. [Performance Analysis of Vertical Handover Algorithm based on Expected WLAN Lifetime](#)
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4. [Random Binary Phase Offset Scheme for CDD Based MIMO-OFDM System](#)
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8. [Reduced Complexity Viterbi Decoders for SOQPSK Signals over Multipath Channels](#)
S. M. Kannappa and **M. Saquib**
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9. [Analysis of Performance Limitations with Linear Adaptive Equalizers for Aeronautical Telemetry Applications](#)
I. Williams and **M. Saquib**
Proceedings of European Telemetry Conference Hamburg, Germany: May 17 - 20; ETC (2010)
10. [Multipath Interference Mitigation Techniques for Aeronautical Telemetry Applications](#)
I. Williams and **M. Saquib**

11. [Performance Analysis of a Cognitive Network with Dynamic Spectrum Assignment to Secondary Users](#)

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12. [Vertical Handover Analysis for Voice over WLAN/Cellular Network](#)

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13. [Fixed and Floating Point Analysis of Linear Predictors for Physiological Hand Tremor in Microsurgery](#)

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17. [Delay Diversity For Correlated MIMO Channel \(invited paper\)](#)

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18. [Performance Analysis Framework and Vertical Handover Triggering Algorithms for Voice over WLAN/Cellular Network](#)

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26. [Exploitation of Time-Variations in the Wireless Channels using Two Different CDMA Systems](#)
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27. [Reduced-Complexity Receivers for the Downlink of a Multicell CDMA System with Multiple Antennas](#)
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29. [Transport Layer FEC for Low-latency Wireless Video Transmission](#)
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34. [Pilot-aided Chip-Interleaved DS-CDMA Transmission over Time-varying Channels \(invited paper\)](#)
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