

## Journal Publications

1. A. Aubry, M. Lops, A. M. Tulino, L. Venturino, "On MIMO Detection under non-Gaussian Scattering Targets", *IEEE Transactions on Information Theory*, in press.
2. D. Angelosante, E. Grossi, G. B. Giannakis, M. Lops, "Parameters estimation in CDMA systems exploiting sparsity", *EURASIP Journal on Applied on Signal Processing*, in press.
3. D. Angelosante, E. Biglieri, M. Lops, Low-complexity receivers for multiuser detection with an unknown number of active users, *Signal Processing*, May 2010.
4. D. Angelosante, E. Biglieri, M. Lops, "Neighbor Discovery in Wireless Networks: A Multiuser-Detection Approach", *Physical Communication*, March 2010.
5. D. Orlando, L. Venturino, M. Lops, G. Ricci, "Track-Before-Detect Strategies for STAP radar", *IEEE Transactions on Signal Processing*, March 2010.
6. D. Angelosante, E. Biglieri, M. Lops, "Sequential estimation of multipath MIMO-OFDM channels", *IEEE Transactions on Signal Processing*, August 2009.
7. D. Angelosante, E. Biglieri, M. Lops, "Multiuser Detection in dynamic environment - Part II: Joint User Identification and Parameter Estimation", *IEEE Transactions on Information Theory*, May 2009.
8. A. De Maio, M. Lops (2008). "Space-Time Coding in MIMO Radar," in *MIMO Radar Signal Processing*, J. Li and P. Stoica Eds., Wiley, October 2008.
9. A. De Maio, M. Lops, L. Venturino (2008). "Diversity-Integration Tradeoffs in MIMO Detection", *IEEE Transactions on Signal Processing* vol. 56, pp. 5051-5061.
10. E. Grossi, M. Lops (2008). "Sequential Along-Track Integration for Early Detection of Moving Targets," *IEEE Transactions on Signal Processing*, vol. 56, pp. 3969-3982.
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14. A. De Maio, M. Lops (2007). "Design Principles of MIMO Radar Detectors," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 43, pp. 886-898.
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16. S. Buzzi, M. Lops, S. Sardellitti (2006). "Widely linear reception strategies for layered space-time wireless communications," *IEEE Transactions on Signal Processing*, vol. 54, pp. 2252-2262.
17. A. De Maio, R. Episcopo, M. Lops, A. Pauciullo (2006). "Recursive algorithms for multiuser detection over DS-CDMA channels", *IEEE Transactions on Communications*, vol. 54, pp. 192-196.
18. L. Venturino, X. Wang, M. Lops (2006). "Multiuser detection for cooperative networks and performance analysis," *IEEE Transactions on Signal Processing*, vol. 54, pp. 3315-3329.
19. S. Buzzi, M. Lops, S. Sardellitti (2005). "Further results on Cramer-Rao bounds for parameter estimation in long-code DS/CDMA systems," *IEEE Transactions on Signal Processing*, vol. 53, pp. 1216-1221.
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