

Publications

Journal papers

- RI-1** E. Conte, G. Ricci, "Performance Prediction in Compound-Gaussian Clutter," *IEEE Transactions on Aerospace and Electronics Systems*, Vol. 30, No. 2, pp. 611-616, April 1994.
- RI-2** E. Conte, M. Lops, G. Ricci, "Radar Detection in K-distributed Clutter," *IEE Proc. Pt. F*, Vol. 141, No. 2, pp. 116-118, April 1994.
- RI-3** E. Conte, M. Lops, G. Ricci, "Fitting the Exogenous Model to Measured Data," *IEEE Transactions on Instrumentation and Measurement*, Vol. 43, No. 5, pp. 758-763, October 1994.
- RI-4** E. Conte, M. Lops, G. Ricci, "Asymptotically Optimum Radar Detection in Compound Gaussian Noise," *IEEE Transactions on Aerospace and Electronics Systems*, Vol. 31, No. 2, pp. 617-625, April 1995.
- RI-5** E. Conte, M. Lops, G. Ricci, "Adaptive Matched Filter Detection in Spherically Invariant Noise," *IEEE Signal Processing Letters*, Vol. 3, No. 8, pp. 248-250, August 1996.
- RI-6** E. Conte, M. Di Bisceglie, C. Galdi, G. Ricci, "A procedure for Measuring the coherence length of the sea Texture," *IEEE Transactions on Instrumentation and Measurement*, Vol. 46, No. 4, pp. 836-841, August 1997.
- RI-7** E. Conte, G. Ricci, "Sensitivity Study of GLRT Detection in Compound-Gaussian Clutter," *IEEE Transactions on Aerospace and Electronics Systems*, Vol. 34, No. 1, pp. 308-316, January 1998.
- RI-8** M. Lops, G. Ricci, A. M. Tulino, "Narrowband-Interference Suppression in Multiuser CDMA Systems," *IEEE Transactions on Communications*, Vol. 46, No. 9, pp. 1163-1175, September 1998.
- RI-9** E. Conte, M. Lops, G. Ricci, "Adaptive Detection Schemes in Compound-Gaussian Clutter," *IEEE Transactions on Aerospace and Electronics Systems*, Vol. 34, No. 4, pp. 1058-1069, October 1998.
- RI-10** E. Conte, M. Lops, G. Ricci, "Incoherent Radar Detection in Compound-Gaussian Clutter," *IEEE Transactions on Aerospace and Electronics Systems*, Vol. 35, No. 3, pp. 790-800, July 1999.
- RI-11** E. Conte, A. De Maio, G. Ricci, "Adaptive CFAR Detection in Compound-Gaussian Clutter with Circulant Covariance Matrix," *IEEE Signal Processing Letters*, Vol. 7, No. 3, pp. 63-65, March 2000.
- RI-12** E. Conte, A. De Maio, G. Ricci, "Covariance Matrix Estimation for Adaptive CFAR Detection in Compound-Gaussian Clutter," *IEEE Transactions on Aerospace and Electronics Systems*, Vol. 38, No. 2, pp. 415-426, April 2002.
- RI-13** E. Conte, A. De Maio, G. Ricci, "CFAR Detection of Distributed Targets in Non-Gaussian Disturbance," *IEEE Transactions on Aerospace and Electronics Systems*, Vol. 38, No. 2, pp. 612-621, April 2002.
- RI-14** E. Conte, A. De Maio, G. Ricci, "GLRT-based Adaptive Detection Algorithms for Range-Spread Targets," *IEEE Transactions on Signal Processing*, Vol. 49, No. 7, pp. 1336-1348, July 2001.
- RI-15** S. Buzzi, A. De Maio, M. Lops, G. Ricci, "Diversity Reception of Nonorthogonal Multipulse Signals in Multiuser Nakagami Fading Channels," *IEEE Communications Letters*, Vol. 5, No. 5, pp. 188-190, May 2001.

- RI-16** G. Ricci, M. K. Varanasi, A. De Maio, "Blind Multiuser Detection via Interference Identification," *IEEE Transactions on Communications*, Vol. 50, No. 7, pp. 1172-1181, July 2002.
- RI-17** A. De Maio, G. Ricci, "A Polarimetric Adaptive Matched Filter," *Signal Processing*, Vol. 81, No. 12, pp. 2583-2589, December 2001.
- RI-18** E. Conte, A. De Maio, G. Ricci "Recursive Estimation of the Covariance Matrix of a Compound-Gaussian Process and Its Application to Adaptive CFAR Detection," *IEEE Transactions on Signal Processing*, Vol. 50, No. 8, pp. 1908-1915, August 2002.
- RI-19** S. Buzzi, M. Lops, A. Pauciuolo, G. Ricci, "Adaptive Group Detection for DS/CDMA Systems over Frequency-Selective Fading Channels," *European Transactions on Telecommunications*, Vol. 14, No. 3, pp. 213-226, May/June 2003.
- RI-20** F. Bandiera, G. Ricci, M. K. Varanasi, "Blind Multiuser Detection Over Highly-Dispersive Channels," *IEEE Transactions on Communications*, Vol. 52, No. 8, pp. 1377-1387, August 2004.
- RI-21** A. Fusco, C. Galdi, G. Ricci, M. Tesauro, "Fitting a Statistical Model to SIR-C SAR Images of the Sea Surface," *IEEE Transactions on Aerospace and Electronics Systems*, Vol. 40, No. 4, pp. 1179-1190, October 2004.
- RI-22** F. Bandiera, G. Ricci, "Decision-Aided GLR-Based Group Detection," *Electronics Letters*, Vol. 39, No. 5, pp. 467-468, 6 March, 2003.
- RI-23** F. Bandiera, G. Ricci, "Slicks Detection on the Sea Surface based upon Polarimetric SAR Data," *IEEE Geoscience and Remote Sensing Letters*, Vol. 2, No. 3, pp. 342-346, July 2005.
- RI-24** F. Bandiera, D. Orlando, G. Ricci, "CFAR Detection of Extended and Multiple Point-like Targets without Assignment of Secondary Data," *IEEE Signal Processing Letters*, Vol. 13, No. 4, pp. 240-243, April 2006.
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- RI-28** F. Bandiera, O. Besson, D. Orlando, G. Ricci, L.L. Scharf, "GLRT-based Direction Detectors in Homogeneous Noise and Subspace Interference," *IEEE Transactions on Signal Processing*, Vol. 55, No. 6, pp. 2386-2394, June 2007.
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- RI-30** F. Bandiera, D. Orlando, G. Ricci, "On the CFAR property of GLRT-based Direction Detectors", *IEEE Transactions on Signal Processing*, Vol. 55, No. 8, pp. 4312-4315, August 2007.
- RI-31** F. Bandiera, D. Orlando, G. Ricci, "A Subspace-based Adaptive Sidelobe Blanker", *IEEE Transactions on Signal Processing*, Vol. 56, No. 9, pp. 4141-4151, September 2008.
- RI-32** F. Bandiera, O. Besson, G. Ricci, "An ABORT-like Detector with Improved Mismatched Signals Rejection Capabilities", *IEEE Transactions on Signal Processing*, Vol. 56, No. 1, pp. 14-25, January 2008.
- RI-33** F. Bandiera, O. Besson, D. Orlando, G. Ricci, "Theoretical performance analysis of the W-ABORT detector," *IEEE Transactions on Signal Processing*, Vol. 56, No. 5, pp. 2117-2121, May 2008.
- RI-34** F. Bandiera, O. Besson, D. Orlando, G. Ricci, "An Improved Adaptive Sidelobe Blanker", *IEEE Transactions on Signal Processing*, Vol. 56, No. 9, pp. 4152-4161, September 2008.
- RI-35** F. Bandiera, D. Orlando, G. Ricci, "CFAR Detection strategies for Distributed Targets under Conic Constraints", *IEEE Transactions on Signal Processing*, Vol. 57, No. 9, pp. 3305-3316, September 2009.

- RI-36** F. Bandiera, D. Orlando, G. Ricci, “One-stage and Two-stage Tunable Receivers”, *IEEE Transactions on Signal Processing*, Vol. 57, No. 6, pp. 2064-2073, June 2009 and (due to publishing typos by the publisher) Vol. 57, No. 8, pp. 3264-3273, August 2009.
- RI-37** D. Orlando, L. Venturino, M. Lops, and G. Ricci, “Track-Before-Detect Strategies for STAP Radars,” *IEEE Transactions on Signal Processing*, Vol. 58, No. 2, pp. 933-938, February 2010.
- RI-38** D. Orlando, G. Ricci, Y. Bar-Shalom, “Track-before-detect Algorithms for Targets with Kinematic Constraints,” *IEEE Transactions on Aerospace and Electronics Systems*, in print.
- RI-39** F. Bandiera, A. Farina, D. Orlando, G. Ricci, “Detection algorithms to discriminate between radar targets and ECM signals”, *IEEE Transactions on Signal Processing*, under revision.
- RI-40** F. Bandiera, O. Besson, G. Ricci, “Knowledge-Aided Covariance Matrix Estimation and Adaptive Detection in Compound-Gaussian Noise”, *IEEE Transactions on Signal Processing*, in print.
- RI-41** D. Orlando, G. Ricci, “A Rao Test with enhanced selectivity properties in homogeneous scenarios”, *IEEE Transactions on Signal Processing*, in print.

Books

- B1** G. Ricci, M.E. Valcher, “Segnali e Sistemi”, third edition, *Edizioni Libreria Progetto*, Padova, 2006 (in italian).
- B2** F. Bandiera, D. Orlando, G. Ricci “Advanced Radar Detection Schemes Under Mismatched Signal Models,” *Synthesis Lectures on Signal Processing No. 8*, Morgan & Claypool Publishers, 2009.