

MAURO BARNI
Complete list of publications
June 2018

A. Master and PhD Thesis

- A.1 M. Barni, "*Il Restauro delle Immagini Numeriche con Applicazioni ai Beni Culturali*"; Master thesis in Electronic Engineering, Firenze 1990.
- A.2 M. Barni, "*Un Sistema Intelligente per l'Ispezione Automatica di Prodotti Alimentari*"; PhD thesis, Telecommunication and Computer Science Engineering, VII Ciclo, Firenze 1994.

B. Journals

- B.1 F.Argenti, M.Barni, V.Cappellini, A.Mecocci: "A vector median deblurring filter for color image restoration"; *Electronic Letters*, Vol.27. No.21, pp. 1899-1900, October 1991.
- B.2 M.Barni, V.Cappellini, A.Mecocci: "Elaborazione numerica delle immagini a colori."; *Alta Frequenza*; vol.IV, n°2, pp. 67-76, Marzo-Aprile 1992.
- B.3 F.Argenti, M.Barni, G.Benelli, V.Cappellini, A.Mecocci, "Broadband network applications in the fine arts world", *Science and Technology for Cultural Heritage, Journal of the "Comitato Nazionale per la Scienza e la Tecnologia dei Beni Culturali"*, CNR, 1, pp. 97-100, 1992.
- B.4 D.Baldini, M.Barni, G.Benelli, A.Foggi, A.Mecocci, "A new star constellation matching algorithm for satellite attitude determination", *ESA Journal*, vol.17, n.2, pp. 185-198, 1993.
- B.5 M.Barni, V.Cappellini, M.Mattioli, A.Mecocci, S.Zipoli, "Scene inspection in complex heterogeneous environments by means of knowledge-maps", *Information Services and Use*, vol.13, n.3, pp. 247-277, 1993.
- B.6 M.Barni, V.Cappellini, A.Mecocci: "Fast vector median filter based on euclidean norm approximation", *IEEE Signal Processing Letters*, vol.1, n.6, June 1994.
- B.7 L.Alparone, M.Barni: "Dual-channel iterative even-median filter", *Pattern Recognition Letters*, 15, pp. 949-956, September 1994.
- B.8 D.Baldini, M.Barni, G.Benelli, A.Foggi, A.Mecocci, "Star-configuration searching for satellite attitude computation", *IEEE Transactions on Aerospace and Electronic Systems*, vol.31, n.2, pp. 768-777, April 1995.
- B.9 M.Barni, V.Cappellini, A.Mecocci, «Comments on 'A possibilistic approach to clustering'», *IEEE Trans. on Fuzzy Systems*, vol.4, no.3, pp.393-396, August 1996.
- B.10 M.Barni, V.Cappellini, A.Mecocci, «Colour-based detection of defects on chicken meat», *Image and Vision Computing*, vol. 15, no. 7, pp. 549-556, July 1997.
- B.11 M.Barni, «A fast algorithm for 1-norm vector median filtering», *IEEE Transactions on Image Processing*, vol. 6, no. 10, pp. 1452-1455, October 1997.
- B.12 M.Barni, F.Bartolini, V.Cappellini, A.Piva, «A DCT-domain system for robust image watermarking », *Signal Processing*, vol. 66, no. 3, pp. 357-372, May 1998.
- B.13 M.Barni, F.Bartolini, V.Cappellini, A.Piva, «Copyright protection of digital images by embedded unperceivable marks», *Image and Vision Computing*, vol. 16, no. 12-13, pp. 897-906, August 1998.
- B.14 M.Barni, V.Cappellini, «On the computational complexity of multivariate median filters"; *Signal Processing*, vol. 71, no. 1, pp. 45-54, November 1998.
- B.15 L.Alparone, M.Barni, F.Bartolini, R.Caldelli, «Regularization of optic flow estimates

- by means of weighted vector median filtering», *IEEE Transactions on Image Processing*, vol. 8, no. 10, pp. 1462-1467, October 1999.
- B.16 M.Barni, R.Gualtieri, «A new possibilistic clustering algorithm for line detection in real world imagery», *Pattern Recognition*, vol. 32, no. 11, pp. 1897-1909, November 1999.
- B.17 M.Barni, F.Bartolini, V.Cappellini, “Image processing for virtual restoration of artworks”, *IEEE Multimedia Magazine*, vol. 7, no. 2, pp. 34-37, April-June 2000 (invited paper).
- B.18 M.Barni, F.Bartolini, A.De Rosa, A.Piva, “Capacity of full frame DCT image watermarks”, *IEEE Transactions on Image Processing*, vol. 9, no. 8, pp. 1450-1455, August 2000.
- B.19 M.Barni, F.Bartolini, F.Butì, V.Cappellini, «A quasi-Euclidean norm to speed up vector median filtering», *IEEE Transactions on Image Processing*, vol. 9, no. 10, pp. 1704-1709, October 2000.
- B.20 L.Alparone, M.Barni, F.Bartolini, L.Santurri, “An improved H.263 video coder relying on weighted median filtering of motion vectors”, *IEEE Trans. on Circuits and Systems for Video Technology*, vol. 11, no. 2, pp. 235-240, February 2001.
- B.21 M. Barni, F. Bartolini, A. De Rosa, A. Piva, “A new decoder for the optimum recovery of nonadditive watermarks”, *IEEE Transactions on Image Processing*, vol. 10, no. 5, pp. 755-766, May 2001.
- B.22 M.Barni, F.Bartolini, A.Piva, “Improved wavelet-based watermarking through pixel-wise masking”, *IEEE Transactions on Image Processing*, vol. 10, no. 5, pp. 783-791, May 2001.
- B.23 R.Baitello, M.Barni, F.Bartolini, V.Cappellini, “From watermark detection to watermark decoding: a PPM approach”, *Signal Processing*, vol. 81, June 2001, pp. 1261-1271.
- B.24 A.Abrardo, M.Barni, A.Garzelli, D.Marotta, “Error resilient transmission of H.263 video for slow-fading mobile communications”, *ETT – European Transactions on Telecommunications*, vol.12, no. 3. May/June 2001, pp. 181-188.
- B.25 M. Barni, C. I. Podilchuk, F. Bartolini, E. J. Delp, “Watermark embedding: hiding a signal within a cover image”, *IEEE Communications Magazine*, vol.39, no.8, August 2001, pp. 102-108.
- B.26 F. Bartolini, A. Tefas, M. Barni, I. Pitas, “Image authentication techniques for surveillance applications”, *Proceedings of the IEEE* vol. 89, no. 10, October 2001, pp. 1403-1418 (invited paper).
- B.27 A.Abrardo, M.Barni, A.Garzelli, “Improved group-of-block synchronization for robust transmission of H.263 video over slow-fading channels”, *Journal of Electronic Imaging*, 10 (4), pp. 1016-1024, October 2001.
- B.28 M.Barni, F.Bartolini, L.Boccardi, A. De Rosa, A. Piva, “Color image watermarking in the Karhunen-Loeve transform domain”, *Journal of Electronic Imaging*, Volume 11, no. 1, pp. 87-95, January 2002.
- B.29 M.Barni, F.Bartolini, A.Piva, F.Salucco, “Robust watermarking of cartographic images”, *EURASIP Journal on Applied Signal Processing*, vol. 2002, no.2 pp. 197-208, February 2002.
- B.30 M.Barni, F.Bartolini, A.Piva, “Multichannel watermarking of color images”, *IEEE Trans. on Circuits and Systems for Video Technology*, vol. 12, no. 3, pp. 142-156, March 2002.
- B.31 A. Piva, M. Barni, F. Bartolini, “Managing Copyright in Open Networks”, *IEEE Internet Computing*, Vol. 6, no. 3, May/June 2002, pp. 18-26.
- B.32 M.Barni, F.Bartolini, E.Magli, G.Olmo, “Watermarking techniques for electronic delivery of remote sensing images”, *Journal of Optical Engineering*, vol. 41, no. 9, pp.

- 2111-2119, 2002. (invited paper).
- B.33 M.Barni, F.Bartolini, R. Caldelli, A. Piva, "Object watermarking for MPEG4 video protection", *Telecommunications Review*, vol. 12, no. 5, 2002, pp. 695-710.
- B.34 M.Barni, F.Bartolini, A.De Rosa, A. Piva, "Optimum decoding and detection of multiplicative watermarks", *IEEE Trans. on Signal Processing*, vol. 51, no. 4, April 2003, pp. 1118-1123.
- B.35 V. Cappellini, M. Barni, M. Corsini, A. De Rosa, A. Piva, "ArtShop: an art-oriented image-processing tool for cultural heritage applications", *J. Visual. Comput. Animat.* 2003; 14, pp. 1-10.
- B.36 M.Barni, F.Bartolini, T.Furon, "A general framework for robust watermarking security" *Signal Processing*, vol. 83, no. 10, pp. 2069-2084, October 2003 (invited paper).
- B.37 M.Barni, F. Bartolini, "Data hiding for fighting piracy" *IEEE Signal Processing Magazine*, vol. 21, no. 2, March 2004, pp. 28-39.
- B.38 F. Bartolini, M. Barni, A. Piva, "Performance analysis of ST-DM watermarking in presence of non-additive attacks", *IEEE Trans. on Signal Processing*, vol. 52, no. 10, October 2004, pp. 2965-2974.
- B.39 M.Barni, F.Bartolini, N.Checacci, "Watermarking of MPEG-4 video objects", *IEEE Transactions on Multimedia*, vol. 7, no. 1, February 2005, pp. 23-32.
- B.40 A. Abrardo, M. Barni, "Informed watermarking by means of orthogonal and quasi-orthogonal dirty paper coding", *IEEE Trans. on Signal Processing*, vol. 53, no.2, February 2005, pp. 824-833.
- B.41 M. Barni, "Effectiveness of exhaustive search ant template matching against watermark de-synchronization", *IEEE Signal Processing Letters*, vol. 12, no. 2, February 2005, pp. 158-161.
- B.42 M. Barni, A. Pelagotti, A. Piva, "Image processing for the analysis and conservation of paintings: opportunities and challenges", *IEEE Signal Processing Magazine*, vol. 22, no. 5, pp. 141-144, September 2005
- B.43 A. Piva, M. Barni, F. Bartolini, A. De Rosa, "Data hiding technologies for digital radiographies", *IEE Proc. on Vision, Image & Signal Processing*, vol. 152, no. 5, pp. 604-610, October 2005.
- B.44 F. Perez-Gonzalez, C. Mosquera, M. Barni, A. Abrardo, "Rational dither modulation: a high-rate data-hiding method invariant to gain attacks, *IEEE Trans. on Signal Processing*, vol. 53, no. 10, Part 2, pp. 3960-3975, October 2005.
- B.45 A. Abrardo, M. Barni, F. Perez-Gonzalez, C. Mosquera, "Improving the Performance of RDM Watermarking by Means of Trellis Coded Quantization" *IEE Proceedings on Information Security*, vol. 153, no. 3, September 2006, pp. 107-114.
- B.46 R. Caldelli, F. Filippini, M. Barni, "Joint near-lossless compression and watermarking of still images for authentication and tamper localization" *Signal Processing: Image Communication*, Vol. 21, no. 10, November 2006, pp. 890-903
- B.47 M. Corsini, E. Drelic Gelasca, T. Ebrahimi, M. Barni. "Watermarked 3D Mesh Quality Assessment", *IEEE Trans. on Multimedia*, vol. 9. no. 2, February 2007, pp. 247-256.
- B.48 E. Magli, M. Barni, A. Abrardo, M. Grangetto, "Distributed Source Coding Techniques for Lossless Compression of Hyperspectral Images" *EURASIP Journal on Advances in Signal Processing*, vol. 2007, Article ID 45493, 13 pages, 2007
- B.49 D. Prattichizzo, M. Barni, G. Menegaz, A. Formaglio, H. Z. Tan, S. Choi, "Perceptual issues in haptic digital watermarking" *IEEE Multimedia Magazine*, vol. 14, no.3, July/September 2007, pp. 84-91.
- B.50 Z. Erkin, A. Piva, S. Katzenbeisser, R. L. Lagendijk, J. Shokrollahi, G. Neven, and M. Barni, "Protection and Retrieval of Encrypted Multimedia Content: When

- Cryptography Meets Signal Processing,” *EURASIP Journal on Information Security*, vol. 2007, Article ID 78943, 20 pages, 2007. doi:10.1155/2007/78943
- B.51 A. Piva and M. Barni, “Design and Analysis of the First BOWS Contest,” *EURASIP Journal on Information Security*, vol. 2007, Article ID 98684, 8 pages, 2007. doi:10.1155/2007/98684
- B.52 C. Orlandi, A. Piva, and M. Barni, “Oblivious Neural Network Computing via Homomorphic Encryption,” *EURASIP Journal on Information Security*, vol. 2007, Article ID 37343, 11 pages, 2007. doi:10.1155/2007/37343
- B.53 A. D’Angelo, M. Barni, and N. Merhav, “Stochastic Image Warping for Improved Watermark Desynchronization,” *EURASIP Journal on Information Security*, vol. 2008, Article ID 345184, 14 pages, 2008. doi:10.1155/2008/345184.
- B.54 T. Bianchi, A. Piva, M. Barni, “On the Implementation of the Discrete Fourier Transform in the Encrypted Domain”, *IEEE Transactions on Information Forensics and Security*, vol. 4 no. 1, March 2009, pp. 86-97. **IF = 2.34**
- B.55 G. Cancelli, M. Barni, “MPSteg-color: data hiding through redundant basis decomposition”, *IEEE Transactions on Information Forensics and Security*, vol. 4 no. 3, September 2009, pp. 346-358. **IF = 2.34**
- B.56 T. Bianchi, A. Piva, M. Barni, “Encrypted Domain DCT based on Homomorphic Cryptosystems”, *EURASIP Journal on Information Security*, vol. 2009, Article ID 716357, 12 pages, 2009, doi:10.1155/2009/716357.
- B.57 T. Bianchi, A. Piva, M. Barni, “Composite Signal Representation for Fast and Storage-Efficient Processing of Encrypted Signals”, *IEEE Transactions on Information Forensics and Security*, vol. 5, no. 1, March 2010, pp. 180-187. **IF = 1.83**
- B.58 A. D’Angelo, L. Zhaoping, M. Barni, “A full reference quality metric for geometrically distorted images”, *IEEE Transactions on Image Processing*, vol. 19, no. 4, April 2010, pp. 867-881. **IF = 2.92**
- B.59 A. Abrardo, M. Barni, E. Magli, F. Nencini, “Error-resilient and low-complexity onboard lossless compression of hyperspectral images by means of distributed source coding”, *IEEE Transactions on Geoscience and Remote Sensing*, vol. 48, no. 4, Part:1, April 2010, pp. 1892-1904. **IF = 2.49**
- B.60 P. Comesana, N. Merhav, M. Barni, “Asymptotically Optimum Universal Watermark Embedding and Detection in the High SNR Regime”, *IEEE Transactions on Information Theory*, vol. 56, no. 6, June 2010, pp. 2804-2815. **IF = 2.72**
- B.61 K. Kim, M. Barni, H. Z. Tan, “Roughness-Adaptive 3D Watermarking Based on Masking Effect of Surface Roughness”, *IEEE Transactions on Information Forensics and Security*, vol. 5, no. 4, December 2010, pp. 721-733. **IF = 1.83**
- B.62 M. Barni, P. Failla, R. Lazzaretti, A-R. Sadeghi, T. Schneider, “Privacy-Preserving ECG Classification with Branching Programs and Neural Networks”, *IEEE Trans. on Information Forensics and Security*, vol. 6, no. 2, June 2011, pp. 452-468. **IF = 1.34**
- B.63 K. Kim, M. Barni, D. Prattichizzo, Hong Z. Tan, “Visuohaptic Discrimination of 3D Gross Shape”, *Seeing and Perceiving*, 25 (2012), pp. 351-364, DOI:10.1163/187847612X629937. **IF = 0.98**
- B.64 S. Milani, M. Fontani, P. Bestagini, M. Barni, A. Piva, M. Tagliasacchi, S. Tubaro, “An overview on video forensics”, *APSIPA Transactions on Signal and Information Processing*, vol. 1, August 2012, doi:10.1017/ ATSSIP.2012.2.
- B.65 M. Barni, A. Costanzo “A Fuzzy Approach to Deal with Uncertainty in Image Forensics”, *Signal Processing: Image Communications*, vol. 27, no. 9, pp. 998-1010, October 2012.
- B.66 G. Coluccia, S. Kamdem Kuiteng, A. Abrardo, M. Barni, E. Magli, “Progressive compressed sensing and reconstruction of multidimensional signals using hybrid

- transform/prediction sparsity model”, *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, vol. PP, no. 99, pp.1-13, doi: 10.1109/JETCAS.2012.2214891, 2012.
- B.67 R. (Inald) L. Lagendijk, Z. Erkin, M. Barni, “Encrypted signal processing for privacy protection: conveying the utility of homomorphic encryption and multiparty computation”, *IEEE Signal Processing Magazine*, vol. 30, no. 1, pp. 82-105, January 2013, DOI: 10.1109/MSP.2012.2219653. **(IF = 3.34 – 2012)**
- B.68 M. Barni, B. Tondi, “The Source Identification Game: an Information-Theoretic Perspective”, *IEEE Transactions on Information Forensics and Security*, vol. 8, no. 3, pp. 450-463, March 2013. **(IF = 1.89 – 2012)**
- B.69 M. Fontani, T. Bianchi, A. De Rosa, A. Piva, M. Barni, “A Framework for Decision Fusion in Image Forensics based on Dempster-Shafer Theory of Evidence”, *IEEE Transactions on Information Forensics and Security*, vol. 8, no. 4, pp. 593-607, April 2013. DOI: 10.1109/TIFS.2013.2248727. **(IF = 1.89 – 2012)**
- B.70 I. Amerini, M. Barni, R. Caldelli, A. Costanzo, “Counter-Forensics of SIFT-based Copy-Move Detection by Means of Keypoint Classification”, *EURASIP Journal on Image and Video Processing*, vol. 2013, no. 1, pp. 1-18. **(IF = 0.57 – 2012)**
- B.71 M. Barni, M. Fontani, B. Tondi, “A Universal Attack Against Histogram-Based Image Forensics”, *International Journal on Digital Crime and Forensics*, vol. 5, no. 3, pp. 1-18, 2013.
- B.72 M. Fontani, T. Bianchi, A. De Rosa, A. Piva, M. Barni, “A Forensic Tool for Investigating Image Forgeries”, *International Journal of Digital Crime and Forensics*, vol. 5, no. 4, 2013, pp. 15-33, doi:10.4018/ijdcf.2013100102.
- B.73 M. Barni, B. Tondi, “Binary Hypothesis Testing Game with Training data”, *IEEE Transactions on Information Theory*, vol.60, no.8, pp. 4848-4866, August 2014.
- B.74 A. Abrardo. M. Barni, “[A New Watermarking Scheme Based on Antipodal Binary Dirty Paper Coding](#)”, *IEEE Transactions on Information Forensics and Security*, vol. 9, no. 9, pp. 1380-1393, September 2014.
- B.75 A. Costanzo, I. Amerini, R. Caldelli, M. Barni, “Forensic Analysis of SIFT Keypoint Removal and Injection”, *IEEE Transactions on Information Forensics and Security*, vol. 9, no. 9, pp. 1450-1464, September 2014.
- B.76 A. De Rosa, M. Fontani, M. Massai, A. Piva, M. Barni, “Second-order Statistics Analysis to Cope with Contrast Enhancement Counter-Forensics”, *IEEE Signal Processing Letters*, vol. 22, no. 8, pp. 1132-1136, August 2015, Digital Object Identifier: 10.1109/LSP.2015.2389241
- B.77 M. Barni, G. Droandi, R. Lazzeretti, “A Marriage between Cryptography and Signal Processing for Privacy Protection in Biometric Recognition Systems”, *IEEE Signal Processing Magazine*, vol. 32, no. 5, September 2015, pp. 66-76.
- B.78 A. Oliveira, P. Ferrara, A. De Rosa, A. Piva, M. Barni, S. Goldenstein, Z. Dias, A. Rocha, “Multiple Parenting Phylogeny Relationships in Digital Images”, *IEEE Transactions on Information Forensics and Security*, vol. 11, no. 2, February 2016, pp. 328-343, doi 10.1109/TIFS.2015.2493989.
- B.79 R. Lazzeretti, T. Pignata, M. Barni, “Piecewise Function Approximation with Private Data”, *IEEE Transactions on Information Forensics and Security*, vol. 11, n. 3, pp. 642-657, March 2016.
- B.80 A. Abrardo, M. Barni, K. Kallas, B. Tondi, “A Game-Theoretic Framework for Optimum Decision Fusion in the Presence of Byzantines”, *IEEE Transactions on Information Forensics and Security*, vol. 11, no. 6, pp. 1333-1345, June 2016.
- B.81 M. Barni, B. Tondi, “Source Distinguishability under Distortion-Limited Attack: an Optimal Transport Perspective”, *IEEE Transactions on Information Forensics and*

- Security*, vol. 11, no. 10, pp. 2145-2159, Oct. 2016, doi: [10.1109/TIFS.2016.2570739](https://doi.org/10.1109/TIFS.2016.2570739).
- B.82 B. Tondi, P. Comesana-Alfaro, F. Perez-Gonzalez, M. Barni, "Smart detectors of line-search oracle attacks", *IEEE Trans. on Information Forensics and Security*, vol.12, no.3, pp. 588-603, March 2017, DOI: [10.1109/TIFS.2016.2624280](https://doi.org/10.1109/TIFS.2016.2624280)
- B.83 Y. Luo, S-C. S. Cheung, R. Lazzeretti, T. Pignata, Mauro Barni, "Anonymous Subject Identification and Privacy Information Management in Video Surveillance", *International Journal of Information Security*, Springer, 2017, pp 1-18, DOI: [10.1007/s10207-017-0380-2](https://doi.org/10.1007/s10207-017-0380-2)
- B.84 M. Barni, L. Bondi, N. Bonettini, A. Costanzo, M. Maggini, B. Tondi, S. Tubaro, "Aligned and Non-Aligned Double JPEG Detection Using Convolutional Neural Networks", *Journal of Visual Communication and Image Representation*, vol 49, November 2017, pp. 153-163
- B.85 A. Abrardo, M. Barni, K. Kallas, B. Tondi, "A Message Passing Approach for Decision Fusion in Adversarial Multi-Sensor Networks", *Information Fusion*, vol. 40, March 2018, pp. 101-111
- B.86 M. Barni, B. Tondi, "Adversarial Source Identification Game with Corrupted Training", *IEEE Transactions on Information Theory*, vol. 64, no. 5, pp. 3894-3915, May 2018.

C. Conferences and Workshops

- C.1 M. Barni, V. Cappellini, A. Mecocci, «Tele-elaborazione numerica delle immagini», 39° *Convegno Internazionale delle Comunicazioni*, Genova, 3-5 Ottobre 1991.
- C.2 F. Argenti, M. Barni, G. Benelli, V. Cappellini, A. Mecocci: "Art dedicated pictorial information systems"; *COST 229, Workshop on "Intelligent Terminals"*, L'Aquila, 22-24 Aprile 1992.
- C.3 M. Barni, V. Cappellini, A. Mecocci: "The use of different metrics in vector median filtering: application to fine arts and paintings"; *Proceedings of EUSIPCO-92, Sixth European Signal Processing Conference*, pp. 1485-1488, Brussels, 5-28 August 1992,
- C.4 M. Barni, V. Cappellini, A. Mecocci, "New techniques of colour image restoration for works of art"; *Conferenza Internazionale sulle Prove non Distruttive*, Viterbo, 4-8 Ottobre 1992.
- C.5 M. Barni, V. Cappellini, M. Mattioli, A. Mecocci, S. Zipoli, "Knowledge-map based automatic inspection and change detection in complex heterogeneous environments"; *in "Image Processing: Theory and Applications"*, G. Vernazza, A.N. Venetsanopoulos, C. Braccini (Editors), *Proceedings of IPTA '93*, Sanremo, Italy, 14-16 June, 1993.
- C.6 M. Barni, V. Cappellini, M. Mattioli, A. Mecocci, S. Zipoli, "Inspection of non-structured environments by means of knowledge-maps", *International Conference on Digital Signal Processing*, pp. 541-546, Nicosia-Cyprus, 14-16 July 1993.
- C.7 M. Barni, V. Cappellini, A. Mecocci, "A fast L_1 -metric vector median filter", *14th GRETSI Symposium on Signal and Image Processing*, pp. 583-586, Juan les Pins, 13-16 September 1993.
- C.8 L. Alparone, M. Barni, V. Cappellini, "Even-median filters for noisy image restoration"; *in Time-Varying Image Processing and Moving Object Recognition*, 3 V. Cappellini (Ed.), *Proceedings of the 4th International Workshop*, pp. 87-94, Florence; Elsevier Science 1994.
- C.9 M. Barni, F. Bartolini, V. Cappellini, "Fast approximation of the euclidean norm: application to vector median filtering", *Proc. of EUSIPCO-94, Seventh European Signal Processing Conference*, Edinburgh, 13-16 September 1994.
- C.10 A. Barducci, M. Barni, V. Cappellini, S. Livi, A. Mecocci, "ALINSPEC Project: an

- intelligent vision system for automatic inspection of alimentary products", in *E.A.Yfantis (ed.), Intelligent Systems*, pp. 705-701, 1995, Kluwer, *Proceedings of the Third Golden West International Conference on Intelligent Systems*, Las Vegas, 6-8 June 1994.
- C.11 M.Barni, A.Mecocci, R.Rovati, «Una tecnica fuzzy per la classificazione di immagini da telerilevamento», *Atti del Convegno «Il Telerilevamento ed i Sistemi Informativi Territoriali nella Gestione delle Risorse Ambientali»*, pp. 71-78, Trento, Italia, 27 Ottobre 1994
- C.12 L.Alparone, M.Barni, V.Cappellini, M.Donatini, "Recovering poorly preserved palimpsests through morphological reconstruction", *Proceedings of International Conference on Digital Signal Processing*, Limassol, Cyprus, 26-28 June 1995.
- C.13 M.Barni, M.Betti, A.Mecocci, "Fuzzy segmentation of SAR images for oil spills recognition", *Proceedings of IPA '95, 5th International Conference on Image Processing and its Applications*, Edinburgh, 4-6 July 1995.
- C.14 M.Barni, M.Betti, A.Mecocci, "A fuzzy approach to oil spill detection on SAR images", *Proceedings of IGARSS'95, IEEE International Geoscience and Remote Sensing Symposium*, Florence, 10-14 July 1995.
- C.15 M.Barni, V.Cappellini, A.Mecocci, "A vision system for automatic inspection of meat quality", *Proceedings of ICIAP '95 Conference*, Sanremo, September 1995.
- C.16 A.Mecocci, P.Gamba, A.Marazzi, M.Barni, «Texture Segmentation in Remote Sensing Images by Means of Packet Wavelets and Fuzzy Clustering», *Proceedings of European Symposium on Satellite Remote Sensing II*, 25-28 September 1995, Paris.
- C.17 M.Barni, A.W.Mussa, A.Mecocci, V.Cappellini, T.S.Durrani, "An intelligent perception system for food quality inspection using colour analysis", *Proceedings of ICIP'95, IEEE International Conference on Image Processing*, Washington, D.C., 23-26 October 1995.
- C.18 M.Barni, F.Bartolini, F.Buti, V.Cappellini, "Optimum linear approximation of the Euclidean norm to speed up vector median filtering", *Proceedings of ICIP'95, IEEE International Conference on Image Processing*, Washington, D.C., 23-26 October 1995.
- C.19 L.Alparone, M.Barni, F.Bartolini, V.Cappellini, «Adaptively weighted vector-median filters for motion-fields smoothing», *IEEE International Conference on Acoustic, Speech and Signal Processing*, pp. 2267-2270, May 7-10, 1996, Atlanta, Georgia USA.
- C.20 A.Mecocci, M.Barni, «Change detection in complex environments by mapping image landmarks», *Proceedings of CESA-96, IMACS Multiconference on Computational Engineering in Systems Applications*, Lille - France, 9-12 July 1996.
- C.21 L.Alparone, M.Barni, F.Bartolini, V.Cappellini, «A fast adaptive weighted vector median filter», *Proceedings of CESA-96, IMACS Multiconference on Computational Engineering in Systems Applications*, Lille - France, 9-12 July 1996.
- C.22 A.Ade-Hall, K.Jewell, M.Barni, A.Mecocci, «Machine vision for assessing the quality of natural objects», *Proceedings of CAD/CAM Robotics and Factories of the future, 12th International Conference*, pp.835-842, 14-16 August 1996.
- C.23 M.Barni, A.Mecocci, S.Rossi, «A fuzzy expert system for low level image segmentation», *Signal Processing VIII, Theories and Applications, Proceedings of EUSIPCO-96, Eight European Signal processing Conference*, pp.1752-1728, Trieste, Italy, 10-13 September 1996.
- C.24 M.Barni, V.Cappellini, A.Mecocci, A.Paoli, «Unsupervised detection of straight lines through possibilistic clustering», *Proceedings of ICIP-96, IEEE International Conference on Image Processing*, vol.2, pp.963-966, Lausanne, Switzerland, 16-19

September 1996.

- C.25 M.Barni, V.Cappellini, «A computationally efficient implementation of the L_1 vector median filter», *Proceedings of DSP'97, International Conference on Digital Signal Processing*, pp.283-286, Santorini, Greece, 2-4 July 1997.
- C.26 M.Barni, F.Bartolini, V.Cappellini, A.Piva, «Robust watermarking of still images for copyright protection», *Proceedings of DSP'97, International Conference on Digital Signal Processing*, pp.499-502, Santorini, Greece, 2-4 July 1997.
- C.27 M.Barni, F.Bartolini, V.Cappellini, A.Piva, «Image watermarking for secure transmission over public networks», *Proceedings of COST 254 Workshop*, Toulouse - France, 7-9 July 1997.
- C.28 L.Alparone, M.Barni, M.Betti, A.Garzelli, «Fuzzy classification of textured SAR images based on a fractal dimension feature», *Proceedings of IGARSS'97, IEEE International Geoscience and Remote Sensing Symposium*, vol. III, pp. 1184-1186, Singapore, 3-8 August 1997.
- C.29 M.Barni, V.Cappellini, A.Piva, «Colour correction and electronic marking for image distribution», *Proceedings of EVA'97-Paris Conference*, pp. 2a1-2a9, Paris, 2 September 1997.
- C.30 M.Barni, V.Cappellini, «A comparative study of the complexity of multivariate medians», *Proceedings of NSIP'97, IEEE International Workshop on Nonlinear Signal and Image Processing*, Mackinac Island, Michigan, 7-11 September 1997.
- C.31 M.Barni, F.Bartolini, V.Cappellini, F.Lambardi, «Integration of spatio-temporal information for motion detection by means of fuzzy reasoning», *Proceedings of ICIAP'97, 9th International Conference on Image Analysis and Processing*, pp. 446-453, Florence, Italy, September 17-19, 1997.
- C.32 M.Betti, M.Barni, A.Mecocci, «Using a wavelet-based fractal feature to improve texture discrimination on SAR images», *Proceedings of ICIP'97, IEEE International Conference on Image Processing*, pp. 251-254, Santa Barbara CA, USA, October 26-29, 1997.
- C.33 A.Piva, M.Barni, F.Bartolini, V.Cappellini, «DCT-based watermark recovering without resorting to the uncorrupted original images», *Proceedings of ICIP'97, IEEE International Conference on Image Processing*, pp. 520-523, Santa Barbara CA, USA, October 26-29, 1997.
- C.34 A.Piva, M.Barni, F.Bartolini, V.Cappellini, «A watermarking technique for the protection of digital images IPR», in «*Advances in Information Technologies: The Business Challenge*», *Proc. of EMMSEC, European Multimedia, Microprocessor System and Electronic Commerce Conference and Exhibition*, pp. 636-643, Florence, Italy, 3-5 November 1997.
- C.35 A.Piva, M.Barni, F.Barni, V.Cappellini, «Threshold selection for correlation-based watermark detection», *Proceedings of COST254 Workshop on Intelligent Communications*, pp. 67-72, L'Aquila, June 5-6, 1998.
- C.36 L.Alparone, M.Barni, F.Bartolini, «Adaptively weighted vector-median processing of motion fields in block DCT and object-based video coding», *Proceedings of NMBIA'98, Noblesse Workshop on Non-Linear Model Based Image Analysis*, pp. 320-325, Glasgow, 1-3, July 1998.
- C.37 A.Piva, M.Barni, F.Bartolini, «Copyright protection of digital images by means of frequency domain watermarking», in *Mathematics of Data/Image Coding, Compression, and Encryption*, Mark S. Schmalz ed., *Proceedings of SPIE*, Vol. 3456, pp. 25-35, San Diego, California, July 21-22, 1998.
- C.38 M.Barni, F. Bartolini, A.Piva, F.Rigacci, «Statistical modelling of full frame DCT coefficients», *Signal Processing IX, Theories and Applications, Proceedings of*

- EUSIPCO-98, Ninth European Signal Processing Conference*, pp.1513-1516, Rodos, Greece, 8-11 September 1998.
- C.39 A.Piva, M.Barni, F.Bartolini, V.Cappellini, «Application-driven requirements for digital watermarking technology», in *Technologies for the Information Society: Developments and Opportunities*, J.Y. Roger et al. (eds): *Proceedings of EMMSEC 98, European Multimedia, Mircoprocessor System and Electronic Commerce Conference and Exhibition*, IOS Press, pp.513-520, 28-30 September 1998.
- C.40 M.Barni, F.Bartolini, V.Cappellini, A.Piva, F.Rigacci, «A MAP identification criterion for DCT-based watermarking», *Signal Processing IX, Theories and Applications, Proceedings of EUSIPCO-98, Ninth European Signal Processing Conference*, pp.17-20, Rodos, Greece, 8-11 September 1998.
- C.41 F.Bartolini, M.Barni, V.Cappellini, A.Piva, "Mask building for perceptually hiding frequency embedded watermarks ", *Proceedings of ICIP'98, IEEE International Conference on Image Processing*, vol. I, pp. 450-454, October 4-7, Chicago, USA.
- C.42 V.Cappellini, M.Barni, F.Bartolini, A.Piva, «Interoperability issues in watermark-based electronic copyright management», *Proceedings of VSMM'98, 4th International Conference on Virtual Systems and Multimedia*, vol. I, pp. 140-144, Gifu, Japan, November 18-20, 1998.
- C.43 V.Cappellini, M.Barni, F.Bartolini, «Digital image processing for virtual restoration of art-works », *Proceedings of VSMM'98, 4th International Conference on Virtual Systems and Multimedia*, vol. II, pp. 624-629, Gifu, Japan, November 18-20, 1998.
- C.44 M.Barni, F.Bartolini, V.Cappellini, A.Lippi, A.Piva, «A DWT-based technique for spatio-frequency masking of digital signatures», *Proceedings of SPIE, Security and Watermarking of Multimedia Contents*, S.Josè, California, 23-29 January 1999, SPIE volume 3657, pp. 31-39.
- C.45 M. Barni, F. Bartolini, A. De Rosa A. Piva, «Capacity of the watermark-channel: how many bits can be hidden within a digital image?», *Proceedings of SPIE, Security and Watermarking of Multimedia Contents*, S.Josè, California, 23-29 January 1999, SPIE volume 3657, pp. 437-448.
- C.46 M. Barni, F. Bartolini, A. Piva, "Digital electronic marking techniques for cultural heritage images", *Proceedings of EVA'99 Florence, Electronic Imaging & the Visual Arts*, Firenze, Italy, March 22-26, 1999, pp. 30-33.
- C.47 M.Barni, F.Bartolini, V.Cappellini, A.Piva, "Defining the requirements for watermarking-based authentication of advanced video-based surveillance data", *Proceedings of International COST254 Workshop on Intelligent Communication Technologies and Applications*, May 5-7, 1999, Neuchatel, Switzerland.
- C.48 F.Bartolini, G.Bini, V.Cappellini, A.Fringuelli, G.Meucci, A.Piva and M.Barni, «Enforcement of copyright laws for multimedia through blind, detectable, reversible watermarking», *Proc. of ICMCS'99, International Conference of Multimedia Computing and Systems*, Florence, Italy, 7-11 June 1999, vol.2, pp. 199-203.
- C.49 M.Barni, F.Bartolini, V.Cappellini, "Image processing tools for the enhancement of the aspect of ancient paintings reproductions", *Proceedings of 2nd International Congress on the Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin*, Parigi 5-9 July 1999.
- C.50 M.Barni, F.Bartolini, V.Cappellini, A.Piva, "Museum archives IPR protection through digital watermarking", *Proceedings of 2nd International Congress on the Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin*, Parigi 5-9 July 1999.
- C.51 A.Abrardo, M.Barni, M.Zappalorti, "CRT calibration for high quality reproduction of color images", *Applications of Digital Image Processing XXII, SPIE vol. 3808*, July 20-

- 23, 1999, Denver – Colorado, pp. 52-59.
- C.52 A.Abrardo, M.Barni, A.Garzelli, “Unequal error protection for H.263 video over indoor DECT channel”, *Mathematics of Data/Image Coding, Compression and Encryption II, SPIE vol. 3814*, July 19-20, 1999, Denver - Colorado, pp.43-51.
- C.53 F.Bartolini, V.Cappellini, A.Piva, A.Fringuelli, M.Barni, “Electronic copyright management systems: requirements, players and technologies”, *Proceedings of DEXA'99, 10-th International Workshop on DATABASE and Expert Systems Applications*, 1-3 September, 1999, Florence, Italy, pp. 896-898.
- C.54 M. Barni, F. Bartolini, V. Cappellini, A. De Rosa, A. Piva, “A system for the electronic management of copyright in multimedia”, *Proceedings of the Fifth Bayona Workshop on Emerging Technologies in Telecommunications*, Bayona, Spain, 6-8 September 1999, pp. 144-148.
- C.55 A.Abrardo, M.Barni, V.Cappellini, M.Zappalorti, “A Java-based system for remote correction of CRT color distortion”, *Proc. of MMSP'99, IEEE Third International Workshop on Multimedia Signal Processing*, September 13-15, 1999, Copenhagen, Denmark, pp. 673-678.
- C.56 A. De Rosa, M. Barni, F. Bartolini, V. Cappellini, A. Piva, “Optimum decoding of non-additive full frame DFT watermarks”, *Proceedings of IH'99, Third International Workshop on Information Hiding*, pp. 159-171, 29 September - 1 October, 1999, Dresden, Germany.
- C.57 A. Piva, M. Barni, F. Bartolini, V.Cappellini, “Exploiting the cross-correlation of RGB-channels for robust image watermarking”, *Proceedings of ICIP'99, IEEE International Conference on Image Processing*, October 25-28, 1999, Kobe, Japan, vol.1, pp. 306-310.
- C.58 A. Piva, M. Barni, F. Bartolini, V. Cappellini, A. De Rosa, M. Orlandi, “Improving DFT watermarking robustness through optimum detection and synchronisation”, in *Proc. of ACM Multimedia 1999: Workshop on Multimedia and Security*, 30-31 October 1999, Orlando, Florida, pp. 55-60.
- C.59 M. Barni, F. Bartolini, V.Cappellini, N.Checcacci, «Object watermarking for MPEG4 video streams copyright protection», *Proceedings of SPIE, Security and Watermarking of Multimedia Contents II, SPIE vol. 3971*, S.Josè, California, 24-26 January 2000, pp. 465-476.
- C.60 A. Piva, M. Barni, F. Bartolini, V. Cappellini, A. De Rosa, «Improving the robustness of non-additive watermarks through optimum detection theory», *Proceedings of SPIE, Security and Watermarking of Multimedia Contents II, SPIE vol. 3971*, S.Josè, California, 24-26 January 2000, pp. 2-13.
- C.61 M. Barni, F. Bartolini, P. Bianco, «On the performance of syntax-based error detection in H.263 video coding: a quantitative anaanalysis», in *SPIE vol. 3947, Image and Video Communications and Processing 2000*, 25-28 January 2000, S.Josè, California, pp. 949-956.
- C.62 F. Bartolini, M. Barni, V. Cappellini, R. Caldelli, A. De Rosa, A. Piva, “La marchiatura elettronica delle immagini per la tutela del copyright”, *Atti del Convegno Conclusivo Progetto MURST "Comunicazione Multimediale"*, Padova, 14-15 Febbraio 2000, pp. IV.A 1-10.
- C.63 Boccardi, M.Barni, F.Bartolini, V.Cappellini, A. De Rosa, A. Piva, “Color image decorrelation for digital watermarking”, *COST 254 Intelligent Terminals Workshop: Friendly Exchanging Through the Net*, Bordeaux, France, March 22-24, 2000, pp. 13-16.
- C.64 A.Abrardo, M.Barni, A.Garzelli, D.Marotta, “Error resilient transmission of H.263 video for slow-fading mobile communications”, *Proceedings of PV2000, Packet Video*

- Workshop*, Forte Village Resort (Ca), Italy, May 1-2, 2000.
- C.65 M.Barni, F.Bartolini, R.Caldelli, A. De Rosa, A.Piva, "A robust watermarking approach for raw video", *Proceedings of PV2000, Packet Video Workshop*, Forte Village Resort (Ca), Italy, May 1-2, 2000.
- C.66 M.Barni, A.Garzelli, A.Mecocci, L.Sabatini, "A robust fuzzy clustering algorithm for the classification of remote sensing images", *Proceedings of IGARRS 2000, IEEE 2000 International Geoscience And Remote Sensing Symposium*, 24-28 July 2000, Haway, USA, pp. 2143-2145.
- C.67 M.Barni, A.Mecocci, G.Perugini, "Application of possibilistic shell-clustering to the detection of craters in real-world imagery", *Proceedings of IGARRS 2000, IEEE 2000 International Geoscience And Remote Sensing Symposium*, 24-28 July 2000, Haway, USA, pp. 168-170.
- C.68 A.Piva, F.Bartolini, L.Boccardi, V.Cappellini, A. De Rosa, M.Barni, "Watermarking through color image bands decorrelation", *Proceedings of ICME 2000, International Conference on Multimedia and Expo*, 30 July – 2 August 2000, New York, USA, pp. 1283-1286 (invited paper).
- C.69 M.Barni, F.Bartolini, L.Boccardi, A.De Rosa, A.Piva, "KL transform based color image watermarking", in *SPIE vol. 4122, Mathematics of Data/Image Coding, Compression and Encryption III, with Applications*, 2 August 4, 2000, S.Diego – California, pp. 18-28.
- C.70 A.Garzelli, A.Abrardo, M.Barni, D.Marotta, "A comparative analysis of H.263 resilience techniques for H.223-based video transmission over slow-fading channels", in *SPIE vol. 4122, Mathematics of Data/Image Coding, Compression and Encryption III, with Applications*, 2 August 4, 2000, S.Diego – California, pp. 68-75.
- C.71 V.Cappellini, F.Bartolini, R.Caldelli, A. De Rosa, A. Piva, M. Barni, M. Wada, "Copyright protection of cultural heritage multimedia data through digital watermarking techniques", *Proceedings of DEXA 2000, 11th International Workshop on Database and Expert Systems Applications*, 4-8 September, 2000, Greenwich, London, UK, pp. 935-939.
- C.72 M.Barni, F.Bartolini, A.Piva, "Digital watermarking of visual data: state of the art and new trends", *Proceedings of EUSIPCO 2000, European Signal Processing Conference*, September, 4-8, 2000, Tampere, Finland (invited).
- C.73 M. Barni, F. Bartolini, J. Fridrich, A. Piva, "Digital watermarking for the authentication of AVS data", *Proceedings of EUSIPCO 2000, European Signal Processing Conference*, September 4-8, 2000, Tampere, Finland.
- C.74 M.Barni, F.Bartolini, R.Caldelli, A.Piva, "A robust frame-based technique for video watermarking", *Proceedings of EUSIPCO 2000, European Signal Processing Conference*, September 4-8, 2000, Tampere, Finland.
- C.75 M.Barni, V.Cappellini, L.Mirri "Multichannel M-Filtering for Color Image Restoration", *Proceedings of ICIP 2000, IEEE International Conference on Image Processing*, September 10-13, 2000, Vancouver, Canada, vol. I, pp. 529-532 (invited contribution).
- C.76 M.Barni, A.Mecocci, G.Perugini, "Craters detection via possibilistic shell clustering", *Proceedings of ICIP 2000, IEEE International Conference on Image Processing*, September 10-13, 2000, Vancouver, Canada, vol. II, pp. 720-723.
- C.77 M.Barni, F.Bartolini, L.Caldelli, A.Piva, "Geometric invariant, robust watermarking through constellation matching in the frequency domain", *Proceedings of ICIP 2000, IEEE International Conference on Image Processing*, September 10-13, 2000, Vancouver, Canada, vol. II, pp. 65-68.
- C.78 N.Checchacci, M.Barni, F.Bartolini and S.Basagni, "Robust Video Watermarking for

- Wireless Multimedia Communications”, *Proceedings of WCNC 2000, Wireless Communications and Networking Conference 2000*, 23-28 September 2000, Chicago - IL, USA, Vol.3 pp. 1530 -1535.
- C.79 A.Garzelli, G.Benelli, M.Barni, C.Magini, “Improving wavelet-based merging of panchromatic and multispectral images by contextual information”, *Proceedings of EUROPTO 2000, European Symposium on Remote Sensing, Image and Signal Processing for Remote Sensing VI*, Barcellona, Spain, Sept. 25-29, 2000, pp. 82-91.
- C.80 A. De Rosa, M. Barni, F.Bartolini, A.Piva, “Watermark capacity measure incorporating a model of the Human Visual System”, in “*Security and Watermarking of Multimedia Contents III*”, P. W. Wong and E. J. Delp eds., *Proc. of SPIE vol. 4314*, pp. 483-494, S.Josè, California, January 2001.
- C.81 R.Baitello, M.Barni, F.Bartolini, R.Caldelli, A.De Rosa, “Fast optimum decoding for non-additive readable watermarking”, in “*Security and Watermarking of Multimedia Contents III*”, P. W. Wong and E. J. Delp eds., *Proc. of SPIE vol. 4314*, pp. 342-350, S.Josè, California, January 2001.
- C.82 M.Barni, F.Bartolini, V.Cappellini, A. Garzelli, E.Magli, G.Olmo, “Watermarking techniques for electronic delivery of remote sensing images”, *Proceedings of IEEE 2001 International Geoscience and Remote Sensing Symposium(IGARSS 2001)*, vol. 5, pp. 2265-2267, Sydney, Australia, 2001.
- C.83 R.Baitello, M.Barni, F.Bartolini, “On the use of amplitude and position modulation to augment the payload of 1-bit watermarking”, *Proceedings of SPIE Conference on Mathematics of Data/Image Coding, Compression, and Encryption IV, with Applications*, vol. 4475, July 29 – August 3, 2001, S. Diego, CA, pp. 213-221.
- C.84 M.Barni, F.Bartolini, V.Cappellini, E.Magli, G.Olmo, “Watermarking-based protection of remote sensing images: requirements and possible solutions”, *Proceedings of SPIE Conference on Mathematics of Data/Image Coding, Compression, and Encryption IV, with Applications*, *SPIE vol. 4475*, July 29 – August 3, 2001, S. Diego, CA, pp. 191-202.
- C.85 A.Garzelli, A.Abrardo, M.Barni, “Improving wireless video communication without feedback information”, *Proceedings of SPIE Conference on Mathematics of Data/Image Coding, Compression, and Encryption IV, with Applications*, *SPIE vol. 4475*, July 29 – August 3, 2001, S. Diego, CA, pp. 23-30.
- C.86 R.Caldelli, M.Barni, F.Bartolini, V.Cappellini, A.Piva, “Digital video watermarking for MPEG-4 applications”, *Proceedings of ICMF-2001, International Conference on Media Futures*, Firenze, 8-9 May 2001, pp. 249-252.
- C.87 V.Cappellini, F.Bartolini, R.Caldelli, A.De Rosa, A.Piva, M.Barni, “Robust frame-based watermarking for digital video”, *Proceedings of 12-th International Workshop on Database and Expert Systems Applications*, 3-7 September 2001, Munich, Germany, pp. 825-829.
- C.88 M.Barni, F.Bartolini, V.Cappellini, E.Magli, G.Olmo, R.Zanini “Copyright protection of remote sensing imagery by means of digital watermarking”, in *Sensors, Systems, and Next-Generation Satellites V*, Hiroyuki Fujisada, Joan B. Lurie, Konradin Weber Editors, *Proceedings of SPIE Vol. 4540*, pp. 565-576, 2001.
- C.89 F. Bartolini, M. Barni, V. Cappellini, R. Caldelli, A. De Rosa, A. Piva, “MPEG-4 video data protection for Internet distribution”, *Proceedings of IWDC 2001 - Tyrrhenian International Workshop on Digital Communications: Evolutionary Trends of the Internet*, Taormina, Italy, September 17-20, 2001, pp. 713-720.
- C.90 M. Barni, F. Bartolini, A. Manetti, A. Piva, “A data hiding approach for correcting errors in H.263 video transmitted over a noisy channel”, *Proceedings of MMSP01, 2001 IEEE Workshop on Multimedia Signal Processing*, Cannes, France, October 3-5,

2001, pp. 65-70.

- C.91 M.Barni, F.Bartolini, A.Piva, F.Salucco, "Achieving robust watermarking of cartographic images through text-based normalization", *Proceedings of MMSP01, 2001 IEEE Workshop on Multimedia Signal Processing*, Cannes, France, October 3-5, 2001, pp. 231-236.
- C.92 M.Barni, F.Bartolini, A.Cappellini, A.Piva, F.Salucco, "Text-based geometric normalization for robust watermarking of digital maps", *Proceedings of ICIP 2001, International Conference on Image Processing*, Thessaloniki, Greece, October 7-10, 2001, pp. 1083-1085.
- C.93 A.De Rosa, A. Bonacchi, V. Cappellini, M. Barni, "Image segmentation and region filling for virtual restoration of art-works", *Proceedings of ICIP 2001, International Conference on Image Processing*, Thessaloniki, Greece, October 7-10, 2001.
- C.94 F. Bartolini, A. Piva, M. Barni "Watermarking-based copyright protection of internet-delivered multimedia", *Proceedings of WEDELMUSIC 2001 - International Conference on Web Delivering of Music*, Florence, Italy, 23-24 November 2001, pp. 36-42.
- C.95 F. Bartolini, M. Barni, A. De Rosa "Optimum decoding and detection of a multiplicative amplitude encoded watermark", in "*Security and Watermarking of Multimedia Contents IV*", P. W. Wong and E. J. Delp eds., *Proc. of SPIE vol. 4675*, pp. 409-420, Sa, Jose, CA, 21-24 January 2002.
- C.96 A. De Rosa, M. Barni, F. Bartolini, R. Caldelli, V. Cappellini, A. Piva, "Amplitude modulation for readable watermarks", *Proceedings of 1-st COST #276 Workshop on "Information and Knowledge Management for Integrated Media Communication"* Firenze, 25- 26 March, 2002.
- C.97 M. Barni, F.Bartolini, V.Cappellini, E. Magli, G.Olmo, "Near-lossless digital watermarking for copyright protection of remote sensing images", *Proceedings of IGARSS 2002 - IEEE International Geoscience and Remote Sensing Symposium*, Toronto, Canada, June 2002.
- C.98 C. Maraffon, A. Abrardo, M.Barni, A. Garzelli, G.Giambene, "Performance assessment of voice and video transmission in a simulated UMTS environment", in *Mathematics of Data/Image Coding, Compression, and Encryption V, with Applications*, M. S. Schmalz ed. *Proc. of SPIE vol. 4793*, 9-10 July 2002, Seattle, CA.
- C.99 M.Barni, F.Bartolini, A. De Rosa, "HVS modelling for quality evaluation of art images" *Proceedings of DSP 2002, XIV International Conference on Digital Signal Processing*, July 1-3, 2002, Santorini, Greece.
- C.100 A. M. Bonacchi, V. Cappellini, M.Corsini, A. De Rosa, M. Barni, "ARTSHOP: a tool for art image processing", *Proceedings of DSP 2002, XIV International Conference on Digital Signal Processing*, July 1-3, 2002, Santorini, Greece.
- C.101 M. Barni, F. Bartolini, V. Cappellini, E. Magli, G. Olmo, "Peak-error-controlled watermarking of remote sensing imagery", *Proceedings of IWDC 2002, Tyrrhenian International Workshop on Digital Communications*, Capri, Italy, 8-11 September, 2002.
- C.102 M.Barni, F.Bartolini, A. De Rosa, "On the performance of multiplicative spread spectrum watermarking" *Proceedings of MMSP02, IEEE International Workshop on Multimedia Signal Processing*, S.Thomas - Virgin Island, USA, 9-11 December 2002.
- C.103 M.Barni, F.Bartolini, A. De Rosa, "Advantages and drawbacks of multiplicative Spread Spectrum Watermarking" in "*Security and Watermarking of Multimedia Contents V*", P. W. Wong and E. J. Delp eds., *Proc. of SPIE*, pp. 290-299, S. Clara, CA, 21-24 January 2003.
- C.105 F. Bartolini, M. Barni, R. Caldelli, M. Corsini, V. Cappellini, A. De Rosa, A. Del

- Mastio, A. Piva, A. Nozzoli, "The research of the Image Processing and Communications Lab of the University of Florence in the cultural heritage", Proceedings of *European Conference on Optical Metrology for Arts and Multimedia*, 25-26 June 2003, SPIE Vol. 5146, Munich, Germany.
- C.106 M.Barni, F.Bartolini, M.Corsini, A.Garzelli, "Digital watermarking of 3D meshes", in *Mathematics of Data/Image Coding, Compression, and Encryption VI, with Applications*, M. S. Schmalz ed. Proc. of SPIE vol. 5208, 3-8 August 2003, S. Diego, CA
- C.107 R. Caldelli, F. Bartolini, V. Cappellini, A. Piva, M. Barni, "A new self-recovery technique for image authentication", in *Visual Content Processing and Representation, Proc. of VLBV03, 18-19 September, Madrid, Spain*, M. Garcia, J. M. Martinez, L. Salgado (eds), *Lecture notes in Computer Science*, vol. 2849, pp. 164-171, Springer verlag Berlin.
- C.108 M. Corsini, F. Ucheddu, F. Bartolini, M. Barni, R. Caldelli, V. Cappellini, "3D watermarking technology: visual quality aspects", *Proc. of VSMM 2003, 9-th Conference on Virtual Systems and Multimedia*, Montreal, Quebec, 15-17 Ottobre 2003.
- C.109 A. Abrardo, M. Barni, "Orthogonal dirty paper coding for informed data hiding", in *"Security, Steganography and Watermarking of Multimedia Contents VI"*, P. W. Wong and E. J. Delp eds., Proc. of SPIE vol. 5306, 19-22 January 2004. S. Josè (CA).
- C.110 M. Barni, F. Bartolini, A. Borello, "Evaluating the performance of ST-DM watermarking in non additive channels", in *"Security, Steganography and Watermarking of Multimedia Contents VI"*, P. W. Wong and E. J. Delp eds., Proc. of SPIE vol. 5306, 19-22 January 2004. S. Josè (CA).
- C.111 R. Caldelli, G. Macaluso, F. Bartolini, M. Barni, "Near-lossless image authentication transparent to near-lossless compression", in *"Security, Steganography and Watermarking of Multimedia Contents VI"*, P. W. Wong and E. J. Delp eds., Proc. of SPIE vol. 5306, 19-22 January 2004. S. Josè (CA).
- C.112 A. Piva, R. Caldelli, F. Bartolini, M. Barni, "Semi-fragile watermarking for still images authentication and content recovery", *Proc. of WIAMIS 2004, 5-th International Workshop on Image Analysis for Multimedia Interactive Services*, 21-23 April 2004, Lisboa, Portugal.
- C.113 A. Abrardo, M. Barni, "Fixed-distortion orthogonal dirty paper coding for perceptual still image watermarking", *Proc. of IH Workshop*, May 2004, Toronto.
- C.114 E. Magli, R. Troia, M. Barni, "Minimum-Impact-on-Classifer (MIC) Watermarking for Protection of Remote Sensing Imagery", *Proceedings of IGARSS 2004, IEEE International Geoscience and Remote Sensing Symposium*, September 2004, Anchorage, Alaska.
- C.115 R. Caldelli, G. Macaluso, M. Barni, E. Magli, "Joint Near-Lossless Watermarking and Compression for the Authentication of Remote Sensing Images", *Proceedings of IGARSS 2004, IEEE International Geoscience and Remote Sensing Symposium*, September 2004, Anchorage, Alaska.
- C.116 F. Ucheddu, M. Corsini, M. Barni, "Wavelet-based blind watermarking of 3D models", *Proceedings of ACM Multimedia and Security Workshop 2004*, 20-21 September 2004, Magdeburgh, Germany.
- C.117 F. Perez-Gonzalez, M. Barni, A. Abrardo, C. Mosquera, "Rational Dither Modulation: A Novel Data-Hiding Method Robust to Value-Metric Scaling Attacks" *Proceedings of MMSP 2004, IEEE Workshop on Multimedia Signal Processing*, September 29 – October 1, 2004, Siena Italy.
- C.118 F. Perez-Gonzalez, C. Mosquera, M. Barni, A. Abrardo, "Ensuring gain-

- invariance in high-rate data hiding*”, in “Security, Steganography and Watermarking of Multimedia Contents VII”, P. W. Wong and E. J. Delp eds., Proc. of SPIE vol. 5681, 16-20 January 2005. S. Josè (CA).
- C.119 R. Caldelli, A. De Rosa, M. Barni, R. Becarelli, “Coping with local geometric attacks by means of optic-flow-based resynchronization for robust watermarking” in “Security, Steganography and Watermarking of Multimedia Contents VII”, P. W. Wong and E. J. Delp eds., Proc. of SPIE vol. 5681, 16-20 January 2005. S. Josè (CA).
- C.120 M. Barni, “Shedding light on some possible remedies against watermark desynchronization: a case study”, in “Security, Steganography and Watermarking of Multimedia Contents VII”, P. W. Wong and E. J. Delp eds., Proc. of SPIE vol. 5681, 16-20 January 2005. S. Josè (CA).
- C.121 F. Uccheddu, M. Corsini, V. Cappellini, M. Barni, “A roughness-based algorithm for perceptual watermarking of 3D meshes”, Proceedings of *VSMM 04, Virtual System on Multimedia*, 17-19 November 2004, Ogaki City, Japan.
- C.122 D. Prattichizzo, M. Barni, Hong Z. Tan, S. Choi, “Perceptibility of Haptic Digital Watermarking of Virtual Textures”, *Proceedings of Worldhaptic*, Pisa, Italy March 18-20, 2005.
- C.123 M. Barni, D. Papini, A. Abrado, E. Magli, “Distributed source coding of hyperspectral images” *Proceedings of IGARSS 2005, IEEE Intern.Geoscience and Remote Sensing Symposium*, Seoul, Korea, July 2005, vol. 1, pp. 25-29.
- C.124 D. Papini, M. Barni, A. Abrado, A. Garzelli, E. Magli, Proceedings of *Mathematics of Data/Image Coding, Compression, and Encryption VIII, with Applications, SPIE Conf. 5915*, August 1-2, 2005, S. Diego, (CA).
- C.125 E. Drelie Gelasca, T. Ebrahimi, M. Corsini, M. Barni, “Objective Evaluation of The Perceptual Quality of 3D Watermarking”, *Proc. of ICIP 2005, IEEE International Conference on Image Processing*, 11-14 September 2005, Genova – Italy, vol. 1, pp. 241-244.
- C.126 A. Nonnis, M. Grangetto, E. Magli, G. Olmo, M. Barni, “Improved Low-Complexity Intra-band Lossless Compression of Hyperspectral Images by Means of Slepian-Wolf Coding”, *Proc. of ICIP 2005, IEEE International Conference on Image Processing*, 11-14 September 2005, Genova – Italy, vol. 1, pp. 829-832.
- C.127 R. Caldelli, A. Piva, M. Barni, A. Carboni, “Effectiveness of ST-DM watermarking against intra-video collusion”, in *LNCS 3710, Proc. of IWDW 2005, International Workshop on Digital Watermarking*, 15-17 September 2005, Siena, pp.158-170.
- C.128 A. Abrardo, M. Barni, F. Perez-Gonzalez, C. Mosquera, “Trellis-Coded Rational Dither Modulation for Digital Watermarking”, in *LNCS 3710, Proc. of IWDW 2005, International Workshop on Digital Watermarking*, 15-17 September 2005, Siena, pp.351-360.
- C.129 G. Cancelli, M. Barni, G. Menegaz, “MPsteg: hiding a message in the Matching Pursuit domain”, in “Security, Steganography and Watermarking of Multimedia Contents VIII”, P. W. Wong and E. J. Delp eds., Proc. of SPIE vol. 6072, 15-19 January 2006. S. Josè (CA).
- C.130 A. Piva, D. Corazzi, C. Orlandi, A. De Rosa, M. Barni, “Zero Knowledge ST-DM Watermarking”, in “Security, Steganography and Watermarking of Multimedia Contents VIII”, P. W. Wong and E. J. Delp eds., Proc. of SPIE vol. 6072, 15-19 January 2006. S. Josè (CA).
- C.131 S. Belloni, A. Formaglio, G. Menegaz, H.Z. Tan, D. Prattichizzo, M. Barni, “Is haptic watermarking worth it?”, in “*Human Vision and Electronic Imaging XI*”, *proc. of SPIE vol. 6057*, 15-19 January 2006. S. Josè (CA).
- C.132 F. Guerrini, R. Leonardi, M. Barni, “Image watermarking robust against non-linear

- value-metric scaling based on higher order statistics”, *Proc. of ICASSP 2006, IEEE International Conference on Acoustic Speech and Signal Processing*, 14-19 May 2006, Toulouse, France, vol. 5, pp. 397-400.
- C.133 S. Belloni, A. Formaglio, G. Menegaz, H. Z. Tan, D. Prattichizzo, M. Barni, "Perceptibility of digital watermarking in haptically enabled 3D meshes", *Proceedings of Eurohaptics 2006*, 3-6 July 2006, Paris
- C.134 M. Barni, C. Orlandi, A. Piva, "A Privacy-Preserving Protocol for Neural-Network-Based Computation" in *Proceedings of ACM Multimedia and Security Workshop*, 26-27 September 2006, Geneva, Switzerland.
- C.135 A. Piva, M. Barni, "The first BOWS contest (Break Our Watermarking System)", in "Security, Steganography and Watermarking of Multimedia Contents IX", P. W. Wong and E. J. Delp eds., *Proc. of SPIE vol. 6505*, 28 January - 1 February 2007. S. Josè (CA).
- C.136 R. Caldelli, N. Mondani, V. Cappellini, A. Piva, M. Barni, "Detection of malevolent changes in digital video for forensic applications" in "Security, Steganography and Watermarking of Multimedia Contents IX", P. W. Wong and E. J. Delp eds., *Proc. of SPIE vol. 6505*, 28 January - 1 February 2007. S. Josè (CA).
- C.137 A. D'Angelo, G. Menegaz, M. Barni, "Perceptual quality evaluation of geometric distortions in images" in "Human Vision and Electronic Imaging XII", B. E. Rogowitz; T. N. Pappas; S. J. Daly, eds., *Proc. of SPIE vol. 6492*, 28 January - 1 February 2007. S. Josè (CA).
- C.138 M. Barni, F. Perez-Gonzalez, P. Comesana, G. Bartoli, "Putting reproducible signal processing into practice: a case study in watermarking", in *Proc. of ICASSP 2007, IEEE International Conference on Acoustic Speech and Signal Processing*, 15-20 April 2007, pp. IV-1261 – IV-1264.
- C. 139 G. Cancelli, M. Barni, "MPSteg-color: a new steganographic technique for color images", *Proceedings of Information Hiding*, 9-th International Workshop, IH 2007, Springer Verlag, 11-13 June 2007, Saint-Malò, France.
- C.140 A. D'Angelo, M. Barni, N. Merhav, "Expanding the class of watermark desynchronization attacks", *Proceedings of 9-th ACM Multimedia Security Workshop*, Dallas, Texas, 20-21 September 2007.
- C.141 E. Beccaglini, M. Barni, L. Capobianco, A. Garzelli, E. Magli, F. Nencini, R. Vitulli, "Low-complexity lossless compression of hyper- and ultra-spectral images based on Slepian-Wolf coding", *Proceedings of PCS 2007, 29-th Picture Coding Symposium*, Lisbon, Portugal, 7-9 November 2007.
- C.142 F. Ucheddu, M. Barni, C.-C. J Kuo, "Anticollusion watermarking of 3D meshes by prewarping", *Proceedings of Security, Forensics, Steganography, and Watermarking of Multimedia Contents X* (EI118). S. Josè 2008
- C.143 P. Comesana, M. Barni, N. Merhav, "On the Error Exponents of One-Bit Watermarking under AWGN for Limited Detection Resources", *Proceedings of Security, Forensics, Steganography, and Watermarking of Multimedia Contents X* (EI118). S. Josè 2008
- C.144 A. D'Angelo, M. Pacitto, M. Barni, "A psychovisual experiment on the use of Gibbs potential for the quality assessment of geometrically distorted images", *Proceedings of "Human Vision and Electronic Imaging XII"*, January 2008, S. Josè (CA).
- C.145 A. Del Mastio, A. Piva, M. Barni, V. Cappellini, L. Stefanini, "Color transplant for reverse ageing of faded artworks", in "Computer Image Analysis in the Study of Art", David G. Stork, Jim Coddington eds., *Proc. of SPIE vol. 6810*, 28 January 2008. S. Josè (CA), DOI:10.1117/12.765680.
- C.146 T. Bianchi, A. Piva, M. Barni, "Implementing the Discrete Fourier Transform in the

- Encrypted Domain", *Proc. of 33rd International Conference on Acoustics, Speech, and Signal Processing (ICASSP08)*, March-April 2008, Las Vegas, Nevada, USA, pp. 1757-1760.
- C.147 T. Bianchi, A. Piva, M. Barni, "Comparison of Different FFT Implementations in the Encrypted Domain", *Proceedings of 16-th European Signal Processing Conference, EUSIPCO 2008*, Lausanne, 25-29 August 2008.
- C.148 R. Lazzeretti, M. Barni, "Lossless compression of encrypted grey-level and color images", *Proceedings of 16-th European Signal Processing Conference, EUSIPCO 2008*, Lausanne, 25-29 August 2008.
- C.149 A. Piva, C. Orlandi, M. Caini, T. Bianchi, M. Barni, "Enhancing Privacy in Remote Data Classification", *Proc. of 23rd International Information Security Conference (SEC 2008)*, September 8 - 10, 2008, Milan, Italy.
- C.150 T. Bianchi, A. Piva, M. Barni, "Efficient Pointwise and Blockwise Encrypted Operations", *Proceedings of 10th ACM Workshop on Multimedia and Security*, 22-23 September 2008, Oxford, UK.
- C.151 A. Abrardo, M. Barni, A. Bertoli, A. Garzelli, E. Magli, F. Nencini, B. Penna, R. Vitulli, "Low-complexity and error-resilient hyperspectral image compression based on distributed source coding", in *SPIE Remote Sensing 2008, Proc. SPIE Vol. 7109*, Cardiff, UK, 15-18 September 2008.
- C.152 A. D'Angelo, M. Barni, "A structural method for quality evaluation of desynchronization attacks in image watermarking" *Proceedings of 2008 International Workshop on Multimedia Signal Processing (MMSP 2008)*, October 2008, Cairns, Australia.
- C.153 G. Cancelli, G. Doerr, M. Barni, I.J.Cox, "A Comparative Study of ± 1 Steganalyzers", *Proceedings of 2008 International Workshop on Multimedia Signal Processing (MMSP 2008)*, October 2008, Cairns, Australia.
- C.154 G. Cancelli, G. Doerr, I. J. Cox, M. Barni "Detection of ± 1 LSB Steganography based on the Amplitude of Histogram Local Extrema", *Proceedings of IEEE International Conference on Image Processing, ICIP 2008*, S. Diego - CA, 12-15 October 2008.
- C.155 T. Bianchi, A. Piva, M. Barni, "Discrete Cosine Transform of Encrypted Images", *Proceedings of IEEE International Conference on Image Processing, ICIP 2008*, S. Diego - CA, 12-15 October 2008.
- C.156 A. D'Angelo, M. Barni, "Multiresolution quality evaluation of geometrically distorted images", *Proceedings of VPQM'09, IV International Workshop on Video Processing and Quality Metrics for Consumer Electronics*, Scottsdale, Arizona, U.S.A. 15-16 January 2009.
- C.157 K. Kim, M. Barni, H.Z. Tan, "Roughness-Adaptive 3D Watermarking of Polygonal Meshes", *Proceedings of Information Hiding, 11-th International Workshop, IH 2009*, Springer Verlag, 7-10 June 2009, Darmstadt, Germany.
- C.158 A. Bianchi, A. Piva, M. Barni, "Efficient Linear Filtering of Encrypted Signals via Composite Representation", *proceedings of 16-th International Conference on Digital Signal Processing*, 5-7 July 2009, Santorini - Greece.
- C.159 A. Abrardo, M. Barni, C.M. Carretti, "Watermark embedding and recovery in the presence of C-LPCD de-synchronization attacks", in *LNCS 5703, Proc. of IWDW 2009, 8-th International Workshop on Digital Watermarking*, 24-26 August 2009, Guildford, UK, pp. 54-68.
- C.160 M. Barni, P. Failla, V. Kolesnikov, R. Lazzeretti, A.-R. Sadeghi, and T. Schneider, "Secure evaluation of private linear branching programs with medical applications", *Proc. of 14th European Symposium on Research in Computer Security (ESORICS*

- '09), volume 5789 of LNCS. Springer, September 21-25, 2009.
- C.161 A. D'Angelo, M. Carli, M. Barni, "Quality Evaluation of Motion Estimation Algorithms Based on Structural Distortions", *Proceedings of MMSP 2009, IEEE Int. Workshop on Multimedia Signal Processing*, 5-7 October 2009, Rio de Janeiro, Brazil.
- C.162 P. Zontone, G. Boato, F. G. B. De Natale, A. De Rosa, M. Barni, A. Piva, J. S. Hare, D. Dupplaw, P. H. Lewis, "Image diversity analysis: context, opinion and bias", *Proc. of First International Workshop on Living Web*, 26 October 2009 Washington DC., USA.
- C.163 G. Valenzise, M. Tagliasacchi, S. Tubaro, G. Cancelli, M. Barni, "A Compressive-Sensing Based Watermarking Scheme for Sparse Image Tampering Identification", *Proceedings of ICIP 2009, IEEE Int. Conf. on Image Processing*, 7-10 November 2009, Cairo, Egypt.
- C.164 M. Barni, P. Failla, V. Kolesnikov, R. Lazzeretti, A. Paus, A.-R. Sadeghi, and T. Schneider, "Efficient privacy-preserving classification of ecg signals". *Proc. of WIFS '09, 1st IEEE International Workshop on Information Forensics and Security*, December 6-9, 2009.
- C.165 T. Bianchi, T. Veugen, A. Piva, M. Barni, "Processing in the Encrypted Domain using a Composite Signal Representation: Pros and Cons". *Proc. of WIFS '09, 1st IEEE International Workshop on Information Forensics and Security*, December 6-9, 2009.
- C.166 A. De Rosa, F. Ucheddu, A. Costanzo, A. Piva, M. Barni, "Exploring image dependencies: a new challenge in image forensics" *Proceedings of SPIE, Media and Forensics Security II*, S. Josè, California, 18-20 January, 2010, SPIE vol. 7541, pp. 75410X1 - 75410X12.
- C.167 M. Barni, G. Cancelli, A. Esposito, "Forensics aided steganalysis of heterogeneous images", *Proc. of ICASSP 2010, IEEE International Conference on Acoustic Speech and Signal Processing*, Dallas, Texas, 14-19 March 2010, pp. 1690-1693
- C.168 M. Barni, A. Costanzo, L. Sabatini, "Identification of cut & paste tampering by means of double-JPEG detection and image segmentation", *Proceedings of ISCAS 2010, IEEE International Symposium on Circuits and Systems*, 30 May – 2 June, 2010, Paris.
- C.169 F. Ucheddu, A. De Rosa, A. Piva, M. Barni, "Detection of resampled images: performance analysis and practical challenges", *Proceedings of EUSIPCO 2010, XVIII European Signal Processing Conference*, 24-27 August, 2010, Aalborg, Denmark.
- C.170 P. Failla, M. Barni, "Gram – Schmidt Orthogonalization on Encrypted Vectors", *Proceedings of XXI International Tyrrhenian Workshop on Digital Communications – Trustworthy Internet*, Ponza, Italy, 6-8 September 2010.
- C.171 M. Barni, T. Bianchi, D. Catalano, M. Di Raimondo, R. Donida Labati, P. Failla, D. Fiore, R. Lazzeretti, V. Piuri, A. Piva, F. Scotti, "Privacy-Preserving Fingerprint Authentication", *Proceedings of MMSEC 2010, ACM Multimedia and Security Workshop*, 9-10 September 2010, Rome.
- C.172 P. Failla. Y. Sutcu, M. Barni, "eSketch: a Privacy-Preserving Fuzzy Commitment Scheme for Authentication using Encrypted Biometrics", *Proceedings of MMSEC 2010, ACM Multimedia and Security Workshop*, 9-10 September 2010, Rome.
- C.173 A. Abrardo, M. Barni, E. Magli, "Low-complexity lossy compression of hyperspectral images via informed quantization", *Proceedings of ICIP 2010, 17-th IEEE International Conference on Image Processing*, 27-29 September 2010, Hong-Kong.

- C.174 M. Barni, T. Bianchi, D. Catalano, M. Di Raimondo, R. Donida Labati, P. Failla, D. Fiore, R. Lazzeretti, V. Piuri, A. Piva, F. Scotti., "A Privacy-compliant Fingerprint Recognition System Based on Homomorphic Encryption and Fingercodes Templates", *Proceedings of BTAS 2010, IEEE Fourth International Conference On Biometrics: Theory, Applications And Systems*, Washington DC, USA, September 27-29, 2010.
- C.175 A. Abrardo, M. Barni, E. Magli, "Low-Complexity Lossy Compression of Hyperspectral Images", Proc. of 2nd Int. Workshop on On-Board Payload Data Compression (OBPDC) 28-29 October 2010, Toulouse, France.
- C.176 A. Abrardo, M. Barni, C. M. Carretti, S. Kamdem Kuiteng, E. Magli, R. Vitulli, "Compressed Sensing Techniques for Hyperspectral Image Recovery", Proc. of 2nd Int. Workshop on On-Board Payload Data Compression (OBPDC) 28-29 October 2010, Toulouse, France.
- C.177 M. Barni, J. Guajardo, R. Lazzeretti, "Privacy preserving evaluation of signal quality with application to ECG analysis", *Proceedings of WIFS 2010, IEEE Second International Workshop on Information Forensics and Security*, 12-15 December 2010, Seattle, USA.
- C.178 T. Bianchi, A. Piva, M. Barni, "Analysis of the security of linear blinding techniques from an information theoretical point of view", *Proceedings of ICASSP 2011, IEEE International Conference on Acoustic Speech and Signal Processing*, Prague, 22-27 May 2011.
- C.179 A. Abrardo, M. Barni, E. Magli, "Low-complexity predictive lossy compression of hyperspectral and ultraspectral images", *Proceedings of ICASSP 2011, IEEE International Conference on Acoustic Speech and Signal Processing*, Prague, 22-27 May 2011.
- C.180 A. Abrardo, M. Barni, C. M. Carretti, S. Kuiteng Kamdem, E. Magli, "A compressive sampling scheme for iterative hyperspectral image reconstruction", *Proceedings of EUSIPCO 2011, 19th European Signal Processing Conference*, Barcelona, 29 August - 2 September, 2011
- C.181 R. Lazzeretti, M. Barni, "Division between encrypted integers by means of garbled circuits", *Proceedings of WIFS 2011, 3rd IEEE International Workshop on Information Forensics and Security*, 29 November – 2 December 2011, FOz do Iguacu, Brasil.
- C.182 M. Barni, T. Bianchi, A. De Rosa, M. Fontani, A. Piva, "A Dempster-Shafer framework for decision fusion in image forensics", *Proceedings of WIFS 2011, 3rd IEEE International Workshop on Information Forensics and Security*, 29 November – 2 December 2011, FOz do Iguacu, Brasil.
- C.183 M. Barni, "A game theoretic approach to source identification with known statistics", Proc. of *ICASSP 2012, IEEE International Conference on Acoustic Speech and Signal Processing*, 25-30 March 2012, Kyoto - Japan
- C.184 M. Barni, A. Costanzo "Dealing with Uncertainty in Image Forensics: a Fuzzy Approach", Proc. of *ICASSP 2012, IEEE International Conference on Acoustic Speech and Signal Processing*, 25-30 March 2012, Kyoto - Japan.
- C.185 R. Caldelli, I. Amerini, L. Ballan, G. Serra, M. Barni, A. Costanzo, "On the effectiveness of local warping against sift-based copy-move detection", *Proceedings of ISCCSP'12, 5th International Symposium on Communications, Control, and Signal Processing*, 2-4 May, 2012, Rome.
- C.186 M. Fontani, T. Bianchi, A. De Rosa, A. Piva, M. Barni. "A Multimedia Forensic Tool for Investigating Image Forgery", *Proceedings of GIRPR 2012*, 21-23 May 2012, Siena.
- C.187 M. Fontani, M. Barni, "Hiding Traces of Median Filtering in Digital Images",

- Proceedings of EUSIPCO 2012, EURASIP European Signal Processing Conference, Bucharest (RO), Aug. 2012.*
- C.188 P. Bestagini, M. Fontani, S. Milani, M. Barni, A. Piva, M. Tagliasacchi, S. Tubaro, "An overview on video forensics", *Proceedings of EUSIPCO 2012, EURASIP European Signal Processing Conference, Bucharest (RO), Aug. 2012.*
- C.189 M. Barni, M. Fontani, B. Tondi, "A Universal Technique to Hide Traces of Histogram-Based Image Manipulations", *Proceedings of MMSEC 2012, ACM International Workshop on Multimedia Forensics & Security, Coventry (UK), Sept. 2012.*
- C.190 R. Lazzeretti, J. Guajardo, M. Barni, "Privacy Preserving ECG Quality Evaluation", *Proceedings of MMSEC 2012, ACM International Workshop on Multimedia Forensics & Security, Coventry (UK), Sept. 2012.*
- C.191 Y. Luo, T. Pignata, R. Lazzeretti, S-C. Cheung, M. Barni "An efficient protocol for private iris-code matching by means of garbled circuits", *Proc. of ICIP 2012, IEEE International Conference on Image Processing, September 30 - October 3, Orlando, (FL) – USA.*
- C.192 W. Puech, Z. Erkin, M. Barni, S. Rane, R. L. Lagendijk "Emerging cryptographic challenges in image and video processing", *Proc. of ICIP 2012, IEEE International Conference on Image Processing, September 30- October 3, Orlando, (FL) – USA.*
- C.193 M. Barni, B. Tondi, "Optimum Forensic and Counter-forensic Strategies for Source Identification with Training Data", *Proc. of WIFS 2012, IEEE International Workshop on Information Forensics and Security, Tenerife, Spain, 2-5 December 2012.*
- C.194 T. Pignata, R. Lazzeretti, M. Barni, "General function evaluation in a STPC setting via piecewise linear approximation", *Proc. of WIFS 2012, IEEE International Workshop on Information Forensics and Security, Tenerife, Spain, 2-5 December 2012.*
- C.195 D. Vazquez-Padin, M. Fontani, T. Bianchi, P. Comesana-Alfaro, A. Piva, F. Perez-Gonzalez, M. Barni, "Detection of video double encoding with first GOP size estimation", *Proc. of WIFS 2012, IEEE International Workshop on Information Forensics and Security, Tenerife, Spain, 2-5 December 2012.*
- C.196 A. Abrardo, M. Barni, and G. Ferrari "Audio informed watermarking by means of dirty trellis codes," *Proc. of Information Theory and Applications Workshop (ITA 2013), San Diego, CA, USA, 5-10 February 2013.*
- C.197 M. Barni, F. Perez-Gonzalez, "Coping with the enemy: advances in adversary-aware signal processing", *Proc. of ICASSP 2013, IEEE International Conference on Acoustic Speech and Signal Processing, 26-31 May 2013, Vancouver - Canada.*
- C.198 I. Amerini, M. Barni, R. Caldelli, A. Costanzo, "SIFT keypoint removal and injection for countering matching-based Image Forensics", *Proceedings of 1st ACM Information Hiding and Multimedia Security Workshop (IH&MMsec), June 2013, Montpellier, France.*
- C.199 M. Barni, M. Bernaschi, R. Lazzeretti, T. Pignata, A. Sabellico, "Parallel Implementation of GC-Based MPC Protocols in the Semi-Honest Setting", *Proceedings of DPM 2013, 8-th International Workshop on Data Privacy Management, 12-13 Sept. 2013, Engham (UK).*
- C.200 D. Labartino, T. Bianchi, A. De Rosa, M. Fontani, D. Vazquez-Padin, A. Piva, M. Barni, "Localization of Forgeries in MPEG-2 Video through GOP Size and DQ Analysis", *Proc. of MMSP 2013, IEEE Int. Workshop on Multimedia Signal Processing, Pula, 30 September, 2 October 2013, top 10% best paper award.*
- C.201 R. Lazzeretti, T. Pignata, M. Barni, "Secure Evaluation of Private Functions through

- Piecewise Linear Approximation”, *Proc. of WIFS 2013, IEEE International Workshop on Information Forensics and Security*, Ghuanzhou, China, 18-21 November 2013, pp. 55-60.
- C.202 M. Barni, B. Tondi, “Multiple-Observation Hypothesis Testing under Adversarial Conditions”, *Proc. of WIFS 2013, IEEE International Workshop on Information Forensics and Security*, Ghuanzhou, China, 18-21 November 2013, pp. 91-96.
- C.203 M. Fontani, A. Aragonés-Rúa, Carmela Troncoso, M. Barni, “The Watchful Forensic Analyst: Multi-Clue Information Fusion with Background Knowledge”, *Proc. of WIFS 2013, IEEE International Workshop on Information Forensics and Security*, Ghuanzhou, China, 18-21 November 2013.
- C.204 A. Melloni, P. Bestagini, A. Costanzo, M. Barni, M. Tagliasacchi, S. Tubaro, “Attacking image classification based on Bag-of-Visual-Words”, *Proc. of WIFS 2013, IEEE International Workshop on Information Forensics and Security*, Ghuanzhou, China, 18-21 November 2013.
- C.205 M. Barni, B. Tondi, “The Security Margin: a Measure of Source Distinguishability under Adversarial Conditions”, *Proceedings of IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Austin, Texas, 3-5 Dec. 2013, pp. 225-228.
- C.206 M. Fontani, A. Bonchi, A. Piva, M. Barni “Countering anti-forensics by means of data fusion”, *IS&T/SPIE Conference on Media Watermarking, Security, and Forensics*, 2 - 6 February 2014, San Francisco (CA) USA, SPIE vol. 9028.
- C.207 M. Iuliani, S. Rossetto, T. Bianchi, A. De Rosa, A. Piva, M. Barni, “Image counter-forensics based on feature injection”, *IS&T/SPIE Conference on Media Watermarking, Security, and Forensics*, 2 - 6 February 2014, San Francisco (CA) USA, SPIE vol. 9028.
- C.208 M. Barni, P. Comesaña-Alfaro, F. Pérez-González, B. Tondi, “Are you threatening me? Towards smart detectors in watermarking”, *IS&T/SPIE Conference on Media Watermarking, Security, and Forensics*, 2 - 6 February 2014, San Francisco (CA) USA, SPIE vol. 9028.
- C.209 S. K. Kuiteng, M. Barni, “Iterative compressive sampling for hyperspectral images via source separation”, *IS&T/SPIE Conference on Image Sensors and Imaging Systems*, 5 - 6 February 2014, San Francisco (CA) USA, SPIE vol. 9022.
- C.210 A. Abrardo, M. Barni, A. Gorrieri, G. Ferrari, “An Information-Theoretic Analysis of Dirty Paper Coding for Informed Audio Watermarking”, *Proc. of ITA 2014, Information Theory and Applications Workshop*, 9-14 February 2014, S. Diego, (CA) USA.
- C.211 A. Gironi, M. Fontani, T. Bianchi, A. Piva, M. Barni, “A video forensics technique for detecting frame deletion and insertion” *Proc. of ICASSP 2014, IEEE International Conference on Acoustic Speech and Signal Processing*, 4-9 May 2014, Florence - Italy.
- C.212 S. Kamdem Kuiteing, G. Coluccia, A. Barducci, M. Barni, E. Magli “Compressive hyperspectral imaging using progressive total variation” *Proc. of ICASSP 2014, IEEE International Conference on Acoustic Speech and Signal Processing*, 4-9 May 2014, Florence - Italy.
- C.213 M. Barni, B. Tondi, M. Fontani “Universal Counterforensics of Multiple Compressed JPEG Images”, *Proc. of IWDW 2014, 13th International Workshop on Digital-Forensics and Watermarking*, October 1-4, 2014, Taipei, Taiwan.
- C.214 A. Oliveira, P. Ferrara, A. De Rosa, A. Piva, M. Barni, S. Goldenstein, Z. Dias, A. Rocha, “Multiple Parenting Identification in Image Phylogeny”, *Proc. of ICIP 2014, IEEE International Conference on Image Processing*, 27-30 October 2014, Paris.
- C.215 B. Tondi, M. Barni, “Source Distinguishability under Corrupted Training”, *Proc. of*

- WIFS 2104, IEEE International Workshop on Information Forensics and Security*, 3-5 December 2014, Atlanta, Georgia, USA. **Best student paper award.**
- C.216 A. Abrardo, M. Barni, K. Kallas, B. Tondi, "Decision Fusion with Corrupted Reports in Multi-Sensor Networks: A Game-Theoretic Approach", *Proc. of CDC15, 53rd IEEE Conf. on Decision and Control*, Los Angeles (CA), USA, December 15-17, 2014.
- C.217 A. Abrardo, M. Barni, "Optimum decision fusion in cognitive wireless sensor networks with unknown users location", *Proc. of ICASSP 2015, IEEE International Conference on Acoustic Speech and Signal Processing*, Brisbane, Australia, 19-24 April 2015 pp. 3212 – 3216.
- C.218 M. Fontani, M. Barni et al. "Unsupervised Fusion for Forgery Localization Exploiting Background Information" *Proc. of IEEE Conference on Multimedia and Expo Workshops (ICMEW)*, Torino, Italy, 29 June - 3 July 2015.
- C.219 B. Tondi, P. Comesana-Alfaro, F. Perez-Gonzalez, M. Barni, "The Effectiveness of the Meta-Detection for Countering Oracle Attacks in Watermarking", *Proc. WIFS 2015, 7-th IEEE Int. Workshop on Information Forensics and Security*, Rome, 16-19 November 2015.
- C. 220 B. Tondi, M. Barni, N. Merhav, "Detection Games with a Fully Active Attacker", *Proc. WIFS 2015, 7-th IEEE Int. Workshop on Information Forensics and Security*, Rome, 16-19 November 2015. **Best Paper award.**
- C. 221 A. Costanzo, M. Barni, "Detection of Double AVC/HEVC Encoding", *Proceedings of Eusipco 2016, European Signal Processing Conference*, 29 August - 2 September, 2016, Budapest.
- C.222 K. Kallas, B. Tondi, M. Barni, "Consensus Algorithm with Censored Data for Distributed Detection with Corrupted Measurements: A Game-Theoretic Approach", *Proc. of GameSec 2016, Conference on Decision and Game Theory for Security November 2-4, 2016, New York, NY, USA*
- C.223 M. Barni, Z. Chen, B. Tondi, "Adversary-aware, data-driven detection of double JPEG compression: How to make counter-forensics harder", *Proc. of WIFS 2016, IEEE International Workshop on Information Forensics and Security*, December 2016, Abu Dhabi.
- C.224 A. Abrardo, M. Barni, K. Kallas, B. Tondi, "A Message Passing Approach for Decision Fusion of Hidden-Markov Observations in the presence of Synchronized Attacks", *Proc. of MMEDIA17, 9-th Int. Conf. on Advances in Multimedia*, April 23-27, 2017, Venice, Italy.
- C.225 M. Barni, B. Tondi, "Threat models and games for adversarial multimedia forensics", *Proc. of MFSec 2017, 2-nd Int. Workshop on Multimedia Forensics and Security*, June 6, 2017, Bucharest, Romania.
- C.226 M. Barni, E. Nowroozi, B. Tondi, "Higher-Order, Adversary-Aware, Double JPEG-Detection via Selected Training on Attacked Samples", *Proc. of EUSIPCO 2017, 25-th European Signal Processing Conference*, 28 August – 2 September 2017, Kos, Greece.
- C.227 Z. Chen, B. Tondi, X. Li, R. Ni, Y. Zhao, M. Barni, "A gradient-based pixel-domain attack against SVM detection of global image manipulations", *Proc. of WIFS 2017, IEEE International Workshp on Information Forensics and Security*, December 2017, Rennes, France.
- C.228 E. Nowroozi, B. Tondi, M. Barni, "Detection of Adaptive Histogram Equalization Robust Against JPEG Compression", *Proc. Of IWBF2018, 6-th IAPR/IEEE International Workshop on Biometrics and Forensics*, 7-8 June 2018, Sassari, Italy.

D. Other publications

- D.1 M. Barni, V.Cappellini, A.Mecocci, "Una tecnica di restauro elettronico per la Madonna di Senigallia", in *"Piero e Urbino, Piero e le corti rinascimentali"* a cura di P. dal Poggetto, Marsilio Editori, Venezia, pp. 499-501, 1992.
- D.2 F. Argenti, M.Barni, V.Cappellini, A.Mecocci, "Digital processing applications to the art-works"; in *"Uffizi Project"*, V.Cappellini Editor, Prato 1993, pp. 85-109.
- D.3 A.Angotti, A.Barducci, M.Barni, A.Mecocci, "Analysis of signals retrievable from standard RGB tristimulus for proper meat characterization and classification", *Rapporto Interno DIE No. 940102, Dipartimento di Ingegneria Elettronica, Università degli Studi di Firenze*, Gennaio 1994.
- D.4 M.Barni, V.Cappellini, A.Mecocci, «Image understanding», *V.Cappellini, A.R.Figueras-Vidal ed. COST volume 229*, pp.144-169, 1995.
- D.5 M.Barni, F.Bartolini, A.Piva, F.Rigacci, «Analysis of statistical properties of full frame DCT coefficients», *Rapporto Interno DIE No. 971001, Dipartimento di Ingegneria Elettronica, Università degli Studi di Firenze*, Ottobre 1997.
- D.6 M.Barni, F.Bartolini, A.Piva, «Watermarking interoperability and state of the art», *Rapporto Interno DIE No. 980401, Dipartimento di Ingegneria Elettronica, Università degli Studi di Firenze*, Aprile 1998.
- D.7 M.Barni, F.Bartolini, V.Cappellini, F.Lambardi, A.Piva, «Fuzzy motion detection for highway traffic control», in *Advanced Video-Based Surveillance Systems*, C.Regazzoni et al. Eds., Kluwer Academic Publishers, pp. 58-66, 1999.
- D.8 L.Alparone, M.Barni, V.Cappellini, «Restauro elettronico di palinsesti antichi mediante ricostruzione morfologica», in *Conservazione dei Materiali Librari Archivistici e Grafici*, a cura di M. Regni e P.G. Tordella, Collana "Documenti" della Soprintendenza per i Beni Culturali della Regione Autonoma Valle d'Aosta, volume II, Allemandi, Torino 1999.
- D.9 M.Barni, F.Bartolini, V.Cappellini, A.Piva, "Digital watermarking for the authentication of AVS video sequences", in *Multimedia Video-Based Surveillance Systems*, G.L.Foresti, P.Mahonen, C.Regazzoni eds., pp. 186-196, Kluwer Academic Publisher, 2000
- D.10 M.Barni, F.Bartolini, "Image Segmentation", *Encyclopedia of Optical Engineering*, Marcell Dekker Publisher, pp. 826-839, 2003.
- D.11 A. Piva, R. Caldelli, and M. Barni, "Video Watermarking: Approaches, Applications, and Perspectives," in *Intelligent Watermarking Techniques*, J. S. Pan, H.-C. Huang, and L. C. Jain eds., pp. 561-592, World Scientific Pub. Company, Singapore, 2004.
- D.12 M. Barni, F. Bartolini, A. De Rosa, "Perceptual data hiding in still images", in *Multimedia Security: Steganography and Digital Watermarking Techniques for Protection of Intellectual Property*, C-S. Liu ed., pp. 48-74, Idea Group Pub, 2004.
- D.13 A. Piva, R. Caldelli, A. De Rosa, M. Barni, V. Cappellini, "Watermarking techniques for DRM applications", *Digital Rights Management for E-Commerce Systems*, T. S. Papatheorodou, Dr. D. K. Tsolis Eds., Information Science Reference publisher, New York, September 2008, pp. 71-100.
- D.14 M. Barni, G. Cancelli, A. D'Angelo, "Watermark-based authentication", in *Intelligent Multimedia Analysis for Security Applications*, H. T. Sencar, S. Velastin, N. Nikolaidis and S. Lian Eds. Springer-Verlag, Studies in Computational Intelligence, vol. 282, Springer Verlag, 2010, pp. 365-402.
- D.15 M. Barni, S. Katzenbeisser, "Digital Watermarking", in *Handbook of Financial Cryptography*, in *"Handbook of Financial Cryptography"*, B. Rosenberg ed., Chapman and Hall/CRC 2011, pp. 391-436.

- D.16 A. Abrardo, M. Barni, A. Bertoli, R. Grimoldi, E. Magli, R. Vitulli, Low-complexity approaches for lossless and near-lossless hyperspectral image compression, in B. Huang (Editor), *Satellite Data Compression*, Springer, Sept. 2011.
- D.17 R. Lazzeretti, M. Barni, "Private computing with garbled circuits", *IEEE Signal Processing Magazine*, vol. 30, no. 2, pp. 123-127, March 2013, Digital Object Identifier: 10.1109/MSP.2012.2230540.
- D.18 R. Lazzeretti, P. Failla, M. Barni, "Privacy-Aware Processing of Biometric Templates by Means of Secure Two-Party Computation", in *Security and Privacy in Biometrics*, P. Campisi editor, pp. 149-185, Springer London, 2013.
- D.19 M. Barni, A. Piva, T. Bianchi, "Watermarking in the encrypted domain", in *Information Hiding*, S. Katzenbeisser and F. Petitcolas eds., pp. 261-286, Artech House, 2016.

E. Editorials & Special Issues

- E.1 M. Barni, F. Bartolini, V. Cappellini, "Information theoretic aspects in digital watermarking", *Signal Processing – Special Issue on Information Theoretic Aspects in Digital Watermarking*, vol. 81, June 2001, pp. 1117-1119.
- E.2 M. Barni, F. Bartolini, I. J. Cox, J. Hernández, F. Perez-González "Digital watermarking for copyright protection: a communications perspective", *Communications Magazine – Special Issue on Digital watermarking for copyright protection*, August 2001, pp. 92-93.
- E.3 M. Barni, F. Bartolini, J. Fridrich "Emerging applications of multimedia data hiding", *Journal of Applied Signal Processing – Special Issue on Emerging Applications of Multimedia Data Hiding*, vol. 2002, no.2, pp. 123-125, February 2002.
- E.4 M. Barni "What is the future for watermarking ? Part I", *IEEE Signal Processing Magazine*, vol. 20, no.5, pp. 55-56, September 2003.
- E.5 M. Barni "What is the future for watermarking ? Part II", *IEEE Signal Processing Magazine*, vol. 20, no.6, pp. 53-57, Novembre 2003.
- E.6 M. Barni, F. Perez-Gonzalez "Pushing Science into Signal Processing", *IEEE Signal Processing Magazine*, vol. 22, no. 4, pp. 119-120, July 2005.
- E.7 M. Barni, G. Doerr, I.J. Cox, "Steganography and digital watermarking" *IEE Proceedings on Information Security – Special Issue on Steganography and digital watermarking*, vol. 153, no. 3, September 2006, pp. 75-75.
- E.8 G. J. Sullivan, J-R. Ohm, A. Ortega, E. Delp, A. Vetro, M. Barni, "Future of video coding and transmission", *IEEE Signal Processing Magazine*, vol. 23, no. 6, November 2006, pp. 76-82.
- E.9 M. Barni, J-A. Beraldin, C. Lahanier, A. Piva, "Signal Processing in Visual Cultural Heritage", *IEEE Signal Processing Magazine*, vol. 25, no. 4, July 2008, pp. 10-12.
- E.10 M. Barni, "Book review of: Steganography in Digital Media: Principles, Algorithms, and Applications by Jessica Fridrich, Cambridge University Press, 2010", *IEEE Signal Processing Magazine*, vol. 28, no. 5, pp.142-144, September 2011, Digital Object Identifier: 10.1109/MSP.2011.941841.
- E.11 M. Barni, T. Kalker, S. Katzenbeisser, "Inspiring new research in the field of signal processing in the encrypted domain", *IEEE Signal Processing Magazine*, vol. 30, no. 2, pag. 16, March 2013, Digital Object Identifier: 10.1109/MSP.2012.2229069.
- E.12 M. Barni, "T-IFS Editor in Chief welcome message", *IEEE Transactions on Information Forensics and Security*, vol. 9, no. 1, January 2015. Digital Object Identifier 10.1109/TIFS.2014.2381777
- E.13 M. Barni, "T-IFS Editor in Chief farewell message", *IEEE Transactions on*

F. Books

- F.1 M. Barni, F. Bartolini, *Watermarking Systems Engineering: Enabling Digital Assets Security and other Applications*, Marcel Dekker, New York, 2004.
- F.2 M. Barni, H. Herrera-Joancomarti, S. Katzenbeisser, F. Perez-Gonzalez (Eds.), *Information Hiding*, 7-th International Workshop, IH 2005, LNCS 3727, Springer Verlag Berlin Heidelberg, 2005.
- F.3 M. Barni, I. Cox, T. Kalker, H-J. Kim (Eds.), *Digital Watermarking*, 4-th International Workshop, IWDW 2005, LNCS 3710, Springer Verlag Berlin Heidelberg, 2005.
- F.4 M. Barni, editor, *Document and Image Compression*, CRC Press, Taylor & Francis Group, Signal Processing Series, May 2006.
- F.5 A. T. S. Ho, Y-Q. Shi, H.J. Kim, M. Barni, (Eds.), *Digital Watermarking*, 8-th International Workshop, IWDW 2009, LNCS 5703, Springer Verlag Berlin Heidelberg, 2009.