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## Legenda


 Journal Paper | 
  Book Chapter | 
  Libro | 
  Conference Paper | 
  Patent | 
  Other | 
  PhD Thesis


-  Fabio Bellavia, Marco Fanfani, Carlo Colombo, Alessandro Piva (2021). Experiencing with electronic image stabilization and PRNU through scene content image registration. PATTERN RECOGNITION LETTERS, vol. 145, pp. 8-15, ISSN:0167-8655 [DOI](#) [Accesso ONLINE all'editore](#)
-  Baracchi D.; Iuliani M.; Nencini A.G.; Piva A. (2021). Facing Image Source Attribution on iPhone X. In: 19th International Workshop on Digital Forensics and Watermarking, IWDW 2020, Australia, November 25-27,, Springer Science and Business Media Deutschland GmbH, vol. 12617, pp. 196-207, ISBN:978-3-030-69448-7 [DOI](#)
-  Iuliani M.; Fontani M.; Piva A. (2021). A Leak in PRNU Based Source Identification - Questioning Fingerprint Uniqueness. IEEE ACCESS, vol. 9, pp. 52455-52463, ISSN:2169-3536 [DOI](#)
-  yang P.; Baracchi D.; Iuliani M.; Shullani D.; Ni R.; Zhao Y.; Piva A. (2020). Efficient video integrity analysis through container characterization. IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING, vol. 14, pp. 947-954, ISSN:1932-4553 [DOI](#)
-  M. Fanfani, M. Iuliani, F. Bellavia, C. Colombo, A. Piva (2020). A vision-based fully automated approach to robust image cropping detection. SIGNAL PROCESSING-IMAGE COMMUNICATION, vol. 80, pp. 1-37, ISSN:0923-5965 [DOI](#) [Accesso ONLINE all'editore](#)
-  Mandelli S.; Argenti F.; Bestagini P.; Iuliani M.; Piva A.; Tubaro S. (2020). A Modified Fourier-Mellin Approach for Source Device Identification on Stabilized Videos. In: 2020 IEEE International Conference on Image Processing, ICIP 2020, Virtual, Abu Dhabi; United Arab Emirates, 25-28 September 2020, IEEE, vol. 2020-, pp. 1266-1270, ISBN:978-1-7281-6395-6 [DOI](#)
-  Yang P.; Baracchi D.; Ni R.; Zhao Y.; Argenti F.; Piva A. (2020). A survey of deep learning-based source image forensics. JOURNAL OF IMAGING, vol. 6, pp. 0-0, ISSN:2313-433X [DOI](#) [Accesso ONLINE all'editore](#)
-  Pelagotti, A; Piva, A; Uccheddu, F; Shullani, D; Alberghina, M F; Schiavone, S; Massa, E; Menchetti, C M (2020). Forensic Imaging for Art Diagnostics. What Evidence Should We Trust?. In: 2nd International Conference Florence Heri-Tech: The Future of Heritage Science and Technologies, HERITECH 2020, virtual, 14 -16 October 2020, IOP Publishing, vol. 949, pp. 0-0. [DOI](#)
-  Vazquez-Padin, David; Fontani, Marco; Shullani, Dasara; Perez-Gonzalez, Fernando; Piva, Alessandro; Barni, Mauro (2020). Video Integrity Verification and GOP Size Estimation via Generalized Variation of Prediction Footprint. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 15, pp. 1815-1830, ISSN:1556-6013 [DOI](#) [Accesso ONLINE all'editore](#)
-  Bellavia Fabio, Iuliani Massimo, Fanfani Marco, Colombo Carlo, Piva Alessandro (2019). PRNU pattern alignment for images and videos based on scene content. In: 26th International Conference on Image Processing ICIP 2019, Taipei, Taiwan, September 2-5, 2019, IEEE, pp. 0-0. [DOI](#) [Accesso ONLINE all'editore](#)
-  Iuliani, Massimo; Fontani, Marco; Shullani, Dasara; Piva, Alessandro (2019). Hybrid reference-based Video Source Identification. SENSORS, vol. 19, pp. 0-0, ISSN:1424-8220 [DOI](#) [Accesso ONLINE all'editore](#)
-  M. Fanfani, F. Bellavia, M. Iuliani, A. Piva, C. Colombo (2019). FISH: Face Intensity-Shape Histogram representation for automatic face splicing detection. JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, pp. 1-24, ISSN:1047-3203 [DOI](#) [Accesso ONLINE all'editore](#)


-  Benjamin Hadwiger ; Daniele Baracchi ; Alessandro Piva ; Christian Riess (2019). Towards Learned Color Representations for Image Splicing Detection. In: IEEE International Conference on Acoustics, Speech and Signal Processing, Brighton, United Kingdom, 12-17 May 2019, IEEE, pp. 8281-8285.
-  Massimo Iuliani, Dasara Shullani, Marco Fontani, Saverio Meucci, Alessandro Piva (2019). A Video Forensic Framework for the Unsupervised Analysis of MP4-Like File Container. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 14, pp. 635-645, ISSN:1556-6013 [DOI](#) [Accesso ONLINE all'editore](#)
-  Soderi, Simone; Mucchi, Lorenzo; Hämäläinen, Matti; Piva, Alessandro; Iinatti, Jari (2018). Physical Layer Security. In: M. Liyanage, I. Ahmad, A. B. Abro, A. Gurtov and M. Ylianttila. A Comprehensive Guide to 5G Security, pp. 117-141 Wiley, ISBN:9781119293071. [DOI](#)
-  Simone Soderi, Lorenzo Mucchi, Matti Hämäläinen, Alessandro Piva, Jari Iinatti (2018). Physical-layer security based on spread-spectrum watermarking and jamming receiver. In: Second Italian Conference on Cyber Security (ITASEC18), Milano, 6-9 Feb 2018, CINI, pp. 1-5.
-  Al Shaya, Omar; Yang, Pengpeng; Ni, Rongrong; Zhao, Yao; Piva, Alessandro (2018). A new dataset for source identification of high dynamic range images. SENSORS, vol. 18, pp. 0-0, ISSN:1424-8220 [DOI](#) [Accesso ONLINE all'editore](#)
-  Rocha, Anderson; Li, Shujun; Kuo, C.-C. Jay; Piva, Alessandro; Huang, Jiwu (2018). Data-driven multimedia forensics and security. JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol. 55, pp. 447-448, ISSN:1047-3203 [DOI](#) [Accesso ONLINE all'editore](#)
-  Shullani, Dasara; Fontani, Marco; Iuliani, Massimo; AlShaya, Omar; Piva, Alessandro (2017). VISION: a video and image dataset for source identification. EURASIP JOURNAL ON MULTIMEDIA AND INFORMATION SECURITY, vol. 2017, pp. 0-0, ISSN:2510-523X [DOI](#)
-  Shullani, Dasara; AlShaya, Omar ; Iuliani, Massimo; Fontani, Marco; Piva, Alessandro (2017). A Dataset for Forensic Analysis of Videos in the Wild. In: Proceeding of 2017 Tyrrhenian International Workshop on Digital Communications, Palermo, September 18-20, 2017, Springer, vol. 766, pp. 84-94, ISBN:978-3-319-67638-8 [DOI](#)
-  Ferrara, Pasquale; Piva, Alessandro; Argenti, Fabrizio; Kusuno, Junya; Niccolini, Marta; Ragaglia, Matteo; Uccheddu, MARIA FRANCESCA (2017). Wide-angle and long-range real time pose estimation: A comparison between monocular and stereo vision systems. JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol. 48, pp. 159-168, ISSN:1047-3203 [DOI](#) [Accesso ONLINE all'editore](#)
-  Soderi, Simone; Mucchi, Lorenzo; Hamalainen, Matti; Piva, Alessandro; Iinatti, Jari (2017). Physical Layer Security based on Spread-Spectrum Watermarking and Jamming Receiver. TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, vol. 28, pp. 1-13, ISSN:2161-3915 [DOI](#) [Accesso ONLINE all'editore](#)
-  Schetinger, Victor; Iuliani, Massimo; Piva, Alessandro; Oliveira, Manuel M. (2017). Image forgery detection confronts image composition. COMPUTERS & GRAPHICS, vol. 68, pp. 152-163, ISSN:0097-8493 [DOI](#) [Accesso ONLINE all'editore](#)
-  Iuliani, Massimo; Fanfani, Marco; Colombo, Carlo; Piva, Alessandro (2017). Reliability Assessment of Principal Point Estimates for Forensic Applications. JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol. 42, pp. 65-77, ISSN:1047-3203 [DOI](#) [Accesso ONLINE all'editore](#)
-  de Oliveira, Alberto A.; Ferrara, Pasquale; De Rosa, Alessia; Piva, Alessandro; Barni, Mauro; Goldenstein, Siome; Dias, Zanoni; Rocha, Anderson (2016). Multiple Parenting Phylogeny Relationships in Digital Images. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 11, pp. 328-343, ISSN:1556-6013 [DOI](#)
-  Soderi, Simone; Mucchi, Lorenzo; Hamalainen, Matti; Piva, Alessandro; Iinatti, Jari (2016). Watermark-based secure communications in safety-related scenarios. In: 10th International Symposium on Medical Information and Communication Technology, ISMICT 2016, Worcester; MA; United States, 2016, IEEE Computer Society, vol. 2016, pp. 1-5, ISBN:9781509028498 [DOI](#) [Accesso ONLINE all'editore](#)
-  Senatore, P.; Piva, A.; Garzia, F.; Cusani, R. (2016). A blind video watermarking algorithm for copyright protection based on Dual Tree Complex Wavelet Transform. JOURNAL OF INFORMATION HIDING AND MULTIMEDIA SIGNAL PROCESSING, vol. 7, pp. 1147-1167, ISSN:2073-4212 [Accesso ONLINE all'editore](#)
-  Ruiz, C.; Arroyo, S.; Krsteski, I.; Dago, P.; Sanchez, J.; Perez-Freire, L.; De Rosa, A.; Fontani, M.; Costanzo, A.; Piva, A.; Ariu, D.; Piras, L.; Ahumada, R.; Jerian, M. (2015). The maven project: Management and Authenticity Verification of multimedia contents. In: 2015 IEEE International Conference on Multimedia and Expo Workshops, ICMEW 2015, ita, 2015, Institute of Electrical and Electronics Engineers Inc., pp. 1-4, ISBN:9781479970797 [DOI](#)
-  Iuliani, Massimo; Fabbri, Giovanni; Piva, Alessandro (2015). Image splicing detection based on general perspective constraints. In: 2015 IEEE International Workshop on Information Forensics and Security, Rome, 16-19 Nov. 2015, IEEE, pp. 1-6, ISBN:978-1-4673-6802-5 [DOI](#)

-  A. De Rosa; M. Fontani; M. Massai; A. Piva; M. Barni (2015). Second-Order Statistics Analysis to Cope With Contrast Enhancement Counter-Forensics. IEEE SIGNAL PROCESSING LETTERS, vol. 22, pp. 1132-1136, ISSN:1070-9908 [DOI](#)
-  Barni, M.; Piva, A.; Bianchi, T. (2015). Watermarking in the Encrypted Domain. In: S. Katzenbeisser, F. Petitcolas. Information Hiding, pp. 261-286 Artech House, ISBN:978-1-60807-928-5.
-  Pronti, Lucilla; Ferrara, Pasquale; Pelagotti, Anna; Piva, Alessandro; Uccheddu, M.F. (2015). Identification of pictorial materials by means of optimized multispectral reflectance image processing. In: IEEE International Workshop on Information Forensics and Security, WIFS 2015, Rome, Italy, 2015, Institute of Electrical and Electronics Engineers Inc., pp. 1-6, ISBN:9781467368025 [DOI](#)
-  Ferrara, P.; Fontani, M.; Bianchi, T.; De Rosa, A.; Piva, A.; Barni, M. (2015). Unsupervised fusion for forgery localization exploiting background information. In: 2015 IEEE International Conference on Multimedia and Expo Workshops, ICMEW 2015, ita, 2015, Institute of Electrical and Electronics Engineers Inc., pp. 1-6, ISBN:9781479970797 [DOI](#)
-  Bianchi, T.; Piva, A. (2015). Image and Video Processing History Recovery. In: Anthony T. S. Ho, Shujun Li. Handbook of Digital Forensics of Multimedia Data and Devices, pp. 556-592 John Wiley & Sons - IEEE Press, ISBN:978-1-118-64050-0.
-  Bianchi, Tiziano; Piva, Alessandro; Shullani, Dasara (2015). Anticollusion solutions for asymmetric fingerprinting protocols based on client side embedding. EURASIP JOURNAL ON MULTIMEDIA AND INFORMATION SECURITY, vol. 2015, pp. 0-0, ISSN:2510-523X [DOI](#)
-  M. Iuliani; S. Rossetto; T. Bianchi; A. De Rosa; A. Piva; M. Barni (2014). Image counter-forensics based on feature injection. In: IS&T/SPIE Electronic Imaging, S. Francisco, USA, 3-5 February, 2014, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), vol. 9028, pp. 902810-902810-15. [DOI](#)
-  Oliveira, A.; Ferrara, P.; De Rosa, A.; Piva, A.; Barni, M.; Goldenstein, S.; Dias, Z.; Rocha, A. (2014). Multiple parenting identification in image phylogeny. In: 2014 IEEE International Conference on Image Processing (ICIP 2014),, Paris, France, 27-30 Oct. 2014, IEEE, pp. 5347-5351, ISBN:978-1-4799-5751-4 [DOI](#)
-  Tiziano Bianchi; Alessandro Piva (2014). TTP-free asymmetric fingerprinting protocol based on client side embedding. In: 2014 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Firenze, Italy, IEEE, pp. 3987-3991, ISBN:9781479928934 [DOI](#)
-  Tiziano Bianchi; Alessia De Rosa; Marco Fontani; Giovanni Rocciolo; Alessandro Piva (2014). Detection and localization of double compression in MP3 audio tracks. EURASIP JOURNAL ON MULTIMEDIA AND INFORMATION SECURITY, vol. 2014, pp. 1-14, ISSN:2510-523X [DOI](#) [Accesso ONLINE all'editore](#)
-  Alessandro Lapini;Fabrizio Argenti;Alessandro Piva;Luca Bencini (2014). Comparison of super-resolution methods for quality enhancement of digital biomedical images. In: 2014 8th International Symposium on Medical Information and Communication Technology (ISMICT), Florence, Italy, 2-4 April 2014, IEEE, pp. 1-5, ISBN:9781479948567 [DOI](#) [Accesso ONLINE all'editore](#)
-  Tiziano Bianchi; Alessandro Piva (2014). TTP-free Asymmetric Fingerprinting based on Client Side Embedding. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 9, pp. 1557-1568, ISSN:1556-6013 [DOI](#)
-  A. De Rosa; M. Fontani; M. Iuliani; A. Piva (2014). Investigating multimedia contents. In: 48th Annual International Carnahan Conference on Security Technology, Rome, Italy, October 13-16, 2014, IEEE, pp. 58-63. [DOI](#)
-  A. Gironi;M. Fontani;T. Bianchi;A. Piva;M. Barni (2014). A video forensic technique for detecting frame deletion and insertion. In: 2014 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Firenze, Italy, May 4-9, 2014, IEEE, pp. 6226-6230, ISBN:9781479928934 [DOI](#)
-  Marco Fontani; Alessandro Bonchi; Alessandro Piva; Mauro Barni (2014). Countering anti-forensics by means of data fusion. In: IS&T/SPIE Electronic Imaging, S. Francisco (USA), 3 - 5 February 2014, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), vol. 9028, pp. 90280Z-90280Z-15. [DOI](#)
-  Tiziano Bianchi;Alessandro Piva (2013). Secure Watermarking for Multimedia Content Protection: A Review of its Benefits and Open Issues. IEEE SIGNAL PROCESSING MAGAZINE, vol. 30, pp. 87-96, ISSN:1053-5888 [DOI](#)
-  Alessandro Piva (2013). An Overview on Image Forensics. ISRN SIGNAL PROCESSING, vol. 2013, pp. 1-22, ISSN:2090-505X [DOI](#)
-  Anna Pelagotti; Pasquale Ferrara; Leonardo Pescitelli; Chiara Delfino; Gianni Gerlini; Alessandro Piva; Lorenzo Borgognoni (2013). Multispectral imaging for early diagnosis of melanoma. In: Medical Imaging 2013: Physics of Medical Imaging, Lake Buena Vista, Florida, USA, 9-14 February 2013, PROCEEDINGS OF THE


SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 8668, pp. 86684A-86684A-6. [DOI](#)


 Anna Pelagotti;Pasquale Ferrara;Leonardo Pescitelli;Gianni Gerlini;Alessandro Piva;Lorenzo Borgognoni (2013). Noninvasive inspection of skin lesions via multispectral imaging. In: Optical Methods for Inspection, Characterization, and Imaging of Biomaterials, Munich, , Germany, May 13, 2013, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 8792, pp. 87920C-87920C-13. [DOI](#)


 Marco Fontani;Tiziano Bianchi;Alessia De Rosa;Alessandro Piva;Mauro Barni (2013). A Forensic Tool for Investigating Image Forgeries. INTERNATIONAL JOURNAL OF DIGITAL CRIME AND FORENSICS, vol. 5, pp. 15-33, ISSN:1941-6210 [DOI](#)


 D. Labartino;T. Bianchi;A. De Rosa;M. Fontani;D. Vazquez-Padin;A. Piva;M. Barni (2013). Localization of forgeries in MPEG-2 video through GOP size and DQ analysis. In: Proc. of 2013 IEEE 15th International Workshop on Multimedia Signal Processing (MMSP), Pula (Sardinia), Italy, September 30 -October 2, 2013, IEEE (Institute of Electrical and Electronics Engineers), pp. 494-499, ISBN:9781479901258 [DOI](#)


 Tiziano Bianchi;Alessia De Rosa;Marco Fontani;Giovanni Rocciolo;Alessandro Piva (2013). Detection and classification of double compressed MP3 audio tracks. In: First ACM workshop on Information hiding and multimedia security - IH&MMSec '13, Montpellier, France, June 17–19, 2013, ACM, pp. 159-164, ISBN:9781450320818 [DOI](#)


 Tiziano Bianchi; Alessandro Piva; Fernando Perez-Gonzalez (2013). Near optimal detection of quantized signals and application to JPEG forensics. In: 2013 IEEE International Workshop on Information Forensics and Security (WIFS), Guangzhou, China, November 18-21, 2013, IEEE (Institute of Electrical and Electronics Engineers), pp. 168-173, ISBN:9781467355933 [DOI](#)

 Marco Fontani; Tiziano Bianchi; Alessia De Rosa; Alessandro Piva; Mauro Barni (2013). A Framework for Decision Fusion in Image Forensics Based on Dempster-Shafer Theory of Evidence. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 8, pp. 593-607, ISSN:1556-6013 [DOI](#)


 P. Ferrara; T. Bianchi; A. De Rosa; A. Piva (2013). Reverse engineering of double compressed images in the presence of contrast enhancement. In: 2013 IEEE 15th International Workshop on Multimedia Signal Processing (MMSP), Pula (Sardinia), Italy, September 30 -October 2, 2013, IEEE (Institute of Electrical and Electronics Engineers), pp. 141-146, ISBN:9781479901258 [DOI](#)


 P. Bestagini; M. Fontani; S. Milani; M. Barni; A. Piva; M. Tagliasacchi; S. Tubaro (2012). An Overview on Video Forensics. In: 20th European Signal Processing Conference EUSIPCO 2012, Bucharest, Romania, August 27-31, 2012, EUSIPCO, pp. 1229-1233.

 Simone Milani;Marco Fontani;Paolo Bestagini;Mauro Barni;Alessandro Piva;Marco Tagliasacchi;Stefano Tubaro (2012). An overview on video forensics. APSIPA TRANSACTIONS ON SIGNAL AND INFORMATION PROCESSING, vol. 1, pp. 0-0, ISSN:2048-7703 [DOI](#)

 P. Ferrara; T. Bianchi; A. De Rosa; A. Piva (2012). Image Forgery Localization via Fine-Grained Analysis of CFA Artifacts. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 7 (5), pp. 1566-1577, ISSN:1556-6013 [DOI](#)


 D. Vazquez-Padin; M. Fontani ;T. Bianchi ;P. Comesana; A. Piva; M. Barni (2012). Detection of video double encoding with GOP size estimation. In: 2012 IEEE International Workshop on Information Forensics and Security (WIFS), Tenerife, Spain, December, 2-5, 2012, IEEE, pp. 151-156, ISBN:9781467322850 [DOI](#)

 Tiziano Bianchi;Alessandro Piva (2012). Reverse engineering of double JPEG compression in the presence of image resizing. In: 2012 IEEE International Workshop on Information Forensics and Security (WIFS), Tenerife, Spain, December, 2-5, 2012, IEEE, pp. 127-132, ISBN:9781467322850 [DOI](#)

 T. Bianchi; A. Piva (2012). Image Forgery Localization via Block-Grained Analysis of JPEG Artifacts. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 7 (3), pp. 1003-1017, ISSN:1556-6013 [DOI](#)




















 T. Bianchi; A. Piva (2012). Detection of Nonaligned Double JPEG Compression Based on Integer Periodicity Maps. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 7 (2), pp. 842-848, ISSN:1556-6013 [DOI](#)


















 Tiziano Bianchi; Alessia De Rosa; Alessandro Piva (2011). Improved DCT coefficient analysis for forgery localization in JPEG images. In: 2011 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Prague, Czech Republic, May 22-27, 2011, IEEE, pp. 2444-2447, ISBN:9781457705380 [DOI](#) [Accesso ONLINE all'editore](#)

 Tiziano Bianchi;Alessandro Piva;Mauro Barni (2011). Analysis of the security of linear blinding techniques from an information theoretical point of view. In: 2011 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Prague, Czech Republic, May 22-27, 2011, IEEE, pp. 5852-5855, ISBN:9781457705380 [DOI](#) [Accesso ONLINE all'editore](#)














-  Tiziano Bianchi; Alessandro Piva (2011). Detection of non-aligned double JPEG compression with estimation of primary compression parameters. In: 2011 18th IEEE International Conference on Image Processing, Brussels, Belgium, September 11-14, 2011, IEEE, pp. 1929-1932, ISBN:9781457713026 [DOI](#) [Accesso ONLINE all'editore](#)
-  M. Fontani; T. Bianchi; A. De Rosa; A. Piva; M. Barni (2011). A Dempster-Shafer Framework for Decision Fusion in Image Forensics. In: 2011 IEEE Workshop on Information Forensics and Security, Foz do Iguacu, Brazil, November 29th - December 2nd 2011, IEEE, pp. 1-6. [DOI](#) [Accesso ONLINE all'editore](#)
-  T. Bianchi; A. Piva (2011). Analysis of Non-Aligned Double JPEG Artifacts for the Localization of Image Forgeries. In: 2011 IEEE Workshop on Information Forensics and Security, Foz do Iguacu, Brazil, November 29th - December 2nd 2011, IEEE, pp. 1-6. [DOI](#) [Accesso ONLINE all'editore](#)
-  M. Barni; T. Bianchi; D. Catalano; M. Di Raimondo; R. Donida Labati; P. Failla; D. Fiore; R. Lazzeretti; V. Piuri; F. Scotti; A. Piva (2010). Privacy-Preserving Fingerprint Authentication. In: 12th ACM workshop on Multimedia and security 2010, Rome, Italy, September 9-10, 2010, ACM, pp. 231-240.
-  A. De Rosa; F. Uccheddu; A. Costanzo; A. Piva; M. Barni (2010). Exploring image dependencies: a new challenge in image forensics. In: Media Forensics and Security II, San Jose, California, USA, 17-21 January 2010, SPIE, vol. 7541, pp. 75410X1-75410X12. [DOI](#)
-  T. Bianchi; S. Turchi; A. Piva; R. Donida Labati; V. Piuri; F. Scotti (2010). Implementing FingerCode-Based Identity Matching in the Encrypted Domain. In: 2010 IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (BioMS 2010), Taranto, Italy, 9 September 2010, IEEE, pp. 15-21.
-  M. Barni; T. Bianchi; D. Catalano; M. Di Raimondo; R. Donida Labati; P. Failla; D. Fiore; R. Lazzeretti; V. Piuri; A. Piva; F. Scotti (2010). A Privacy-compliant Fingerprint Recognition System Based on Homomorphic Encryption and Fingerprint Templates. In: IEEE Fourth International Conference on Biometrics: Theory, Applications and Systems (BTAS 10), Washington DC, USA, September 27-29, 2010, IEEE, pp. 1-7.
-  T. Bianchi; A. Piva; M. Barni (2010). Composite Signal Representation for Fast and Storage-Efficient Processing of Encrypted Signals. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 5 (1), pp. 180-187, ISSN:1556-6013
-  A. Rial; M. Deng; T. Bianchi; A. Piva; B. Preneel (2010). A Provably Secure Anonymous Buyer-Seller Watermarking Protocol. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 5 (4), pp. 920-931, ISSN:1556-6013
-  I. Amerini; R. Caldelli; V. Cappellini; F. Picchioni; A. Piva (2010). Estimate of PRNU noise based on different noise models for source camera identification. INTERNATIONAL JOURNAL OF DIGITAL CRIME AND FORENSICS, vol. 2 - 2, pp. 21-33, ISSN:1941-6210 [DOI](#) [Accesso ONLINE all'editore](#)
-  A. Piva; T. Bianchi; A. De Rosa (2010). Secure client-side ST-DM watermark embedding. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 5 (1), pp. 13-26, ISSN:1556-6013
-  M. Fontani; A. De Rosa; R. Caldelli; F. Filippini; A. Piva; M. Consalvo; V. Cappellini (2010). Reversible Watermarking for Image Integrity Verification in Hierarchical PACS. In: 12th ACM workshop on Multimedia and security 2010, Rome, Italy, September 9-10, 2010, ACM, pp. 161-168.
-  M. Deng; T. Bianchi; A. Piva; B. Preneel (2009). An efficient buyer-seller watermarking protocol based on composite signal representation. In: 11th ACM workshop on Multimedia and security 2009, Princeton, New Jersey, USA, September 07 - 08, 2009, ACM, pp. 9-18.
-  T. Bianchi; P.J.M. (Thijs) Veugen; A. Piva; M. Barni (2009). Processing in the Encrypted Domain using a Composite Signal Representation: Pros and Cons. In: First IEEE Workshop on Information Forensics and Security (WIFS09), London, United Kingdom, December 6-9, 2009, IEEE, pp. 176-180.
-  T. Bianchi; A. Piva; M. Barni (2009). Efficient Linear Filtering of Encrypted Signals via Composite Representation. In: 16th International Conference on Digital Signal Processing DSP2009, Santorini, Greece, July 5-7, 2009, IEEE, pp. 0-0. [DOI](#)
-  I. Amerini; R. Caldelli; V. Cappellini; F. Picchioni ; A. Piva (2009). Analysis of Denoising Filters for Photo Response Non Uniformity Noise Extraction in Source Camera Identification. In: 16th Int. Conference on Digital Signal Processing, Santorini Greece, 5-7 July, 2009, IEEE, pp. 1-7.
-  A. Piva; T. Bianchi; A. De Rosa (2009). Client side embedding for ST-DM watermarks. In: 16th IEEE International Conference on Image Processing ICIP 2009, Cairo, Egypt, November 7-11, 2009, IEEE, pp. 97-100.
-  T. Bianchi; A. Piva; M. Barni (2009). Encrypted Domain DCT Based on Homomorphic Cryptosystems. EURASIP JOURNAL ON MULTIMEDIA AND INFORMATION SECURITY, vol. 2009, pp. 0-0, ISSN:1687-4161 [DOI](#)
-  T. Bianchi; A. Piva; M. Barni (2009). On the Implementation of the Discrete Fourier Transform in the Encrypted Domain. IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol. 4 (1), pp. 86-97, ISSN:1556-6013 [DOI](#)

-  P. Zontone; G. Boato; F. G. B. De Natale; A. De Rosa; M. Barni; A. Piva; J. S. Hare; D. Dupplaw; P. H. Lewis (2009). Image Diversity Analysis: Context, Opinion And Bias. In: The First International Workshop on Living Web: Making Web Diversity a true asset, Washington DC., USA, 26 October 2009, CEUR, vol. 515, pp. 0-0.
-  T. Bianchi; A. Piva; M. Barni (2008). Comparison of Different FFT Implementations in the Encrypted Domain. In: Proceedings of 16th European Signal Processing Conference EUSIPCO 2008, Lausanne, Switzerland, August 25-29, 2008, EUSIPCO, pp. 0-0.
-  A. Del Mastio; A. Piva; M. Barni; V. Cappellini; L. Stefanini (2008). Color Transplant for Reverse Ageing of Faded Artworks. In: Electronic Imaging, San Jose, California (USA), 27 Gennaio – 31 Gennaio 2008, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 6810, pp. 1-1, ISBN:9780819469823 [DOI](#)
-  R. Caldelli; A. Piva (2008). Digital Video Watermarking and the Collusion Attack. In: Chang-Tsun Li. Multimedia Forensics and Security, pp. 67-83, Warwick, UK: Information Science Reference, ISBN:9781599048697. [DOI](#)
-  T. Bianchi; A. Piva; M. Barni (2008). Efficient Pointwise and Blockwise Encrypted Operations. In: X ACM Multimedia and Security Workshop 2008, Oxford, UK, September 22-23, 2008, ACM, pp. 85-90.
-  A. Piva (2008). Cryptography and Data Hiding for Media Security. In: Tsihrintzis, George A.; Jain, Lakhmi C.. Multimedia Interactive Services in Intelligent Environments, pp. 227-255, -: Springer-Verlag.
-  T. Bianchi; A. Piva; M. Barni (2008). Implementing the Discrete Fourier Transform in the Encrypted Domain. In: 33rd IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP2008), Las Vegas, Nevada, March 30-April 4 2008, IEEE, pp. 1757-1760.
-  M. Barni; J.-A. Beraldin; C. Lahanier; A. Piva (2008). Signal Processing in Visual Cultural Heritage [From the guest editor's]. IEEE SIGNAL PROCESSING MAGAZINE, vol. 25 (4), pp. 10-12, ISSN:1053-5888 [DOI](#)
-  T. Bianchi; A. Piva; M. Barni (2008). Discrete Cosine Transform of Encrypted Images. In: 15th IEEE International Conference on Image Processing ICIP 2008, San Diego, California, U.S.A, October 12-15, 2008, IEEE, pp. 1668-1671.
-  A. Piva; R. Caldelli; A. De Rosa; M. Barni; V. Cappellini (2008). Watermarking techniques for DRM applications. In: T. S. Papatheorodou, Dr. D. K. Tsolis. Digital Rights Management for E-Commerce Systems, pp. 71-100, New York: Information Science Reference publisher, ISBN:9781605661186.
-  A. Piva; C. Orlandi; M. Caini; T. Bianchi; M. Barni (2008). Enhancing Privacy in Remote Data Classification. In: IFIP TC 11 23rd International Information Security Conference (SEC 2008), IFIP, vol. 278, pp. 33-46.
-  A. Pelagotti; A. Del Mastio; A. De Rosa; A. Piva (2008). Multispectral imaging of paintings: A way to material identification. IEEE SIGNAL PROCESSING MAGAZINE, vol. 25 (4), pp. 27-36, ISSN:1053-5888 [DOI](#)
-  MONDAINI N; CALDELLI R; A. PIVA; CAPPELLINI V; BARNI M (2007). Detection of malevolent changes in digital video for forensic applications. In: Security, Steganography, and Watermarking of Multimedia Contents IX, San Josè, CA, USA, 28 January – 1 February 2007, SPIE, vol. 6505, pp. 0T-1-0T-12. [DOI](#)
-  A. Del Mastio; R. Caldelli; A. De Rosa; A. Piva; V. Cappellini (2007). Image processing for cultural heritage protection and virtual restoration. In: EVA Florence 2007 Electronic Imaging & the Visual Arts, Firenze, March 26-30, FUP - Firenze University Press, pp. 126-131.
-  Z. Erkin; A. Piva; S. Katzenbeisser; R. L. Lagendijk; J. Shokrollahi; G. Neven; M. Barni (2007). Protection and Retrieval of Encrypted Multimedia Content: When Cryptography Meets Signal Processing. EURASIP JOURNAL ON MULTIMEDIA AND INFORMATION SECURITY, vol. 2007, pp. 1-20, ISSN:1687-4161 [DOI](#)
-  A. Piva; S. Katzenbeisser (2007). Guest Editorial Special Issue on Signal Processing in the Encrypted Domain. EURASIP JOURNAL ON MULTIMEDIA AND INFORMATION SECURITY, vol. 2007, pp. 0-0, ISSN:1687-4161 [DOI](#)
-  C. Orlandi; A. Piva; M. Barni (2007). Oblivious Neural Network Computing via Homomorphic Encryption. EURASIP JOURNAL ON MULTIMEDIA AND INFORMATION SECURITY, vol. 2007, pp. 1-11, ISSN:1687-4161 [DOI](#)
-  A. Del Mastio; V. Cappellini; R. Caldelli; A. De Rosa; A. Piva (2007). Virtual restoration and protection of cultural heritage images. In: Proceedings of the 15th International Conference on Digital Signal Processing, DSP2007, Cardiff, Wales, UK, July 1-4, DSP, pp. 471-474.
-  A. Piva; M. Barni (2007). Design and analysis of the first BOWS Contest. EURASIP JOURNAL ON MULTIMEDIA AND INFORMATION SECURITY, vol. 2007, pp. 1-8, ISSN:1687-4161 [DOI](#)

-  A. PIVA; BARNI M (2007). The first BOWS Contest (Break Our Watermarking System). In: Security, Steganography, and Watermarking of Multimedia Contents IX, San Josè, CA, USA, 28 January – 1 February 2007, SPIE, vol. 6505, pp. 16-1-16-10.
-  A. Piva; V. Cappellini; D. Corazzi; A. De Rosa; C. Orlandi; M. Barni (2006). Zero-knowledge ST-DM watermarking. In: Electronic Imaging, San Josè, CA, USA, 16-19 January 2006, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 6072, pp. 60720R-60720R-11. [DOI](#)
-  A. Del Mastio; A. De Rosa; A. Piva; V. Cappellini (2006). Image Registration in the Cultural Heritage field. In: J. Dittmann; C. Vielhauser; J. Hansen. New Advances in Multimedia Security, Biometrics, Watermarking and Cultural Aspect, pp. 7-31, Berlino: Logos Verlag Berlin, ISBN:9783832513863.
-  P. Campisi; A. Piva (2006). Data Hiding for Image and Video Coding. In: M. BARNI ED.. Document and Image Compression, pp. 255-282, Boca Raton, FL (USA): CRC Press LLC.
-  A. Piva; V. Cappellini (2006). Opportunities and issues of Image Processing for Cultural Heritage Applications. In: 14th European Signal Processing Conference EUSIPCO 2006, Firenze, Italy, September 4-8, 2006, EUSIPCO, pp. 0-0. [Accesso ONLINE all'editore](#)
-  M. Barni; C. Orlandi; A. Piva (2006). A Privacy Preserving Protocol for Neural-Network-Based Computation. In: VIII ACM Multimedia and Security Workshop 2006, Geneva, Switzerland, September 26-27, 2006, ACM, pp. 146-151, ISBN:9781595934932
-  A. DE ROSA; V. CAPPELLINI; A. PIVA (2006). Image Processing for Virtual Artwork Restoration. In: R. Lukac and K. Plataniotis eds. Color Image Processing: Emerging Applications, pp. 443-466, Boca Raton, FL (USA): CRC Press LLC.
-  A. Pelagotti; L. Pezzati; A. Piva; A. Del Mastio (2006). Multispectral UV Fluorescence Analysis of Painted Surfaces. In: 14th European Signal Processing Conference EUSIPCO 2006, Florence, Italy, September 4-8, 2006, EUSIPCO 2006, pp. 0-0. [Accesso ONLINE all'editore](#)
-  V. Cappellini; A. Del Mastio; A. De Rosa; A. Piva; A. Pelagotti; H. El Yamani (2005). An automatic registration algorithm for cultural heritage images. In: 12th IEEE International Conference on Image Processing ICIP 2005, Genoa, Italy, September 11-14, 2005, IEEE / Institute of Electrical and Electronics Engineers Incorporated:445 Hoes Lane:(800)701-4333, (732)981-0060, EMAIL: [subscription-service@ieee.org](mailto:subscription-service@ieee.org), INTERNET: <http://www.ieee.org>, Fax: (732)981-9667, vol. II, pp. 566-569, ISBN:0780391349 [DOI](#)
-  A. Del Mastio; V. Cappellini; M. Corsini; F. De Lucia; A. De Rosa; A. Piva (2005). Image Processing Techniques for Cultural Heritage Applications. In: Proc. of the 11th International Conference on Virtual System and Multimedia (VSMM 2005), Ghent, Belgium, October 3-7, 2005, Hal Thwaites, pp. 443-452.
-  A. Del Mastio; V. Cappellini; F. De Lucia; A. De Rosa; A. Piva (2005). Image Processing techniques for Cultural Heritage applications. In: 11th International Conference on Virtual Systems and Multimedia – VSMM 2005, 2005-3 - 7 Ottobre, VSMM, pp. 1-1.
-  A. Piva (2005). On the Integration between Digital Watermarking and Cryptography. EURASIP NEWSLETTER, vol. 16 (4), pp. 2-15, ISSN:1687-1421
-  M. BARNI; A. PELAGOTTI; A. PIVA (2005). Image Processing for the Analysis and Conservation of Paintings: Opportunities and Challenges. IEEE SIGNAL PROCESSING MAGAZINE, vol. 22, no. 5, pp. 141-144, ISSN:1053-5888 [DOI](#)
-  R. Caldelli; A. Piva; M. Barni; A. Carboni (2005). Effectiveness of ST-DM watermarking against intra-video collusion. In: 4th International Workshop on Digital Watermarking IWDW 2005, Siena, Italy, September 15-17, Springer, vol. 3710, pp. 158-170. [DOI](#)
-  A. PIVA; A. DE ROSA; F. BARTOLINI; M. BARNI (2005). Data hiding technologies for digital radiography. IEE PROCEEDINGS. VISION, IMAGE AND SIGNAL PROCESSING, vol. 152, n. 5, pp. 604-610, ISSN:1350-245X, Institution of Electrical Engineers: Michael Faraday House, 6 Hills Way, Stevenage Hertfordshire SG1 1AY United Kingdom: 011 44 1438 313311, EMAIL: [postmaster@iee.org](mailto:postmaster@iee.org), INTERNET: <http://www.iee.org>, Fax: 011 44 1438 313465: [DOI](#)
-  A. Del Mastio; V. Cappellini; F. De Lucia; A. De Rosa; A. Piva (2005). Image Processing technologies for art-works restoration. In: 8th COST 276 Workshop – International and Knowledge Management for Integrated Media Communication, Trondheim - Norway, 26 – 28 Maggio 2005, COST, pp. 1-1.
-  A. Piva; F. Bartolini ; R. Caldelli (2005). Self recovery authentication of images in the DWT domain. INTERNATIONAL JOURNAL OF IMAGE AND GRAPHICS, vol. 5 - 1, pp. 149-165, ISSN:0219-4678 [DOI](#) [Accesso ONLINE all'editore](#)
-  V. Cappellini; A. Del Mastio; A. De Rosa; A. Piva; A. Nozzoli; A. Pelagotti; L. Pezzati (2005). An automatic registration technique for Cultural Heritage images. In: Art'05 - 8th International Conference on "Non-destructive Investigations and Microanalysis for the Diagnostic and Conservation of the Cultural and Environmental Heritage", Lecce, Italy, 15-19 Maggio 2005, art, pp. 1-1.



















-  A. DE ROSA;R. CALDELLI;A. PIVA (2005). Labelling and authentication for medical imaging through data hiding. In: 29th Annual Conference of the Gesellschaft für Klassifikation e.V., Magdeburg, Germany, 9-11 March, SPRINGER, pp. 638-645.
-  A. PIVA;R. CALDELLI;F. FILIPPINI (2005). Data hiding for error concealment of H.264/AVC video transmission over mobile networks. In: SPIE Multimedia on Mobile Devices, San Jose, CA, USA, 16-20 January, SPIE, vol. Proceedings of SPIE, Multimedia on Mobile Devices, pp. 300-310. [DOI](#)
-  V. Cappellini; H. Maitre; I. Pitas; A. Piva (2004). Guest Editorial Special Issue on Image Processing for Cultural Heritage. IEEE TRANSACTIONS ON IMAGE PROCESSING, vol. 13 (3), pp. 273-276, ISSN:1057-7149
-  A. PIVA;R. CALDELLI;M. BARNI (2004). Video Watermarking: Approaches, Applications, and Perspectives. In: J. S. Pan, H.-C. Huang, L. C. Jain. Intelligent Watermarking Techniques, pp. 561-592, Singapore: World Scientific Publishing Company, ISBN:9789812387578.
-  A. PIVA;R. CALDELLI;F. BARTOLINI;M. BARNI (2004). Semi-fragile watermarking for still images authentication and content recovery. In: WIAMIS 2004, 5-th International Workshop on Image Analysis for Multimedia Interactive Services, Lisboa, Portugal, 21-23 April, unknown, pp. 0-0.
-  M. BARNI; F. BARTOLINI; A. PIVA (2004). Performance Analysis of ST-DM Watermarking in Presence of Nonadditive Attack. IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol. 52, no. 10, pp. 2965-2974, ISSN:1053-587X [DOI](#)
-  A. PIVA;R. CALDELLI (2004). Watermarking for image authentication and content recovery. In: 6th COST 276 Workshop, Thessaloniki, Greece, May 6-7.
-  M. Barni; A. Borello; F. Bartolini; A. Piva (2004). Evaluating the performance of ST-DM watermarking in non additive channels. In: Security, Steganography, and Watermarking of Multimedia Contents VI, San José, CA, USA, 19 January 2004, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 5306, pp. 859-869. [DOI](#)
-  A. PIVA;R. CALDELLI;F. FILIPPINI (2004). Data Hiding for Error Concealment in H.264/AVC. In: 2004 IEEE 6th Workshop on Multimedia Signal Processing 2004 (MMSP04), Siena, Italy, September 29 – October 1, IEEE, pp. 199-202. [DOI](#)
-  V. Cappellini;G. Damiani;A. Piva (2004). Protection of cultural heritage contents on the Web. In: 15th International Workshop on Database and Expert Systems Applications DEXA2004, Zaragoza, Spain, August 30- September 3, 2004, DEXA, pp. 57-61, ISBN:0769521959 [DOI](#)
-  Franco Bartolini; Vito Cappellini; Andrea Del Mastio; Alessandro Piva (2003). Applications of image processing technologies to fine arts. In: Optical Metrology for Arts and Multimedia (EOM03), Munich, Germany, 25–26 June 2003, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 5146, pp. 12-23. [DOI](#)
-  F. BARTOLINI;M. BARNI;R. CALDELLI;V. CAPPELLINI;M. CORSINI;A. PIVA (2003). Some Issues on 3D Watermarking. In: Eva'2003 Florence, Electronic Imaging & the Visual Arts, Florence, Italy, March 24-28, pp. 195-199.
-  F. Bartolini; V. Cappellini; A. Del Mastio ; A. Piva (2003). Application of image processing technologies to fine arts. In: SPIE: Optical Metrology for Arts and Multimedia, 2003-23-26 Giugno, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 5146, pp. 12-23.
-  M. CORSINI;M. BARNI;F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. PIVA (2003). Towards 3D watermarking Technology. In: IEEE Region 8 EUROCON 2003 Conference, Ljubljana, Slovenia, 22-24 September, IEEE, vol. 2, pp. 393-396.
-  F. Bartolini; M. Barni; R. Caldelli; M. Corsini; V. Cappellini; A. De Rosa; A. Del Mastio; A. Piva; A. Nozzoli (2003). The research of the Image Processing and Communications Lab of the University of Florence in the cultural heritage field. In: SPIE Optical Metrology for Arts and Multimedia (EOM03), Munich, Germany, June 25–26, R. Salimbeni, vol. 5146, pp. 116-126. [DOI](#)
-  Alessia De Rosa; Franco Bartolini; Alessandro Piva (2003). Application of Intelligent Agents in a Notice and Takedown Process. In: Internet Imaging IV, Santa Clara, CA, USA, 20–24 January 2003, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 5018, pp. 275-283. [DOI](#)
-  M. BARNI; F. BARTOLINI; A. DE ROSA; A. PIVA (2003). Optimum Decoding and Detection of Multiplicative Watermarks. IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol. 51, no. 4, pp. 1118-1123, ISSN:1053-587X, IEEE / Institute of Electrical and Electronics Engineers Incorporated:445 Hoes Lane:Piscataway, NJ 08854:(800)701-4333, (732)981-0060, EMAIL: [subscription-service@ieee.org](mailto:subscription-service@ieee.org), INTERNET: <http://www.ieee.org>, Fax: (732)981-9667: [DOI](#)
-  V. Cappellini; M. Barni; M. Corsini; A. De Rosa; A. Piva (2003). ArtShop: an art-oriented image processing tool for cultural heritage applications. THE JOURNAL OF VISUALIZATION AND COMPUTER ANIMATION, vol. 14 (3), pp. 149-158, ISSN:1049-8907







-  M. Barni; F. Bartolini; R. Caldelli; V. Cappellini; A. De Rosa; A. Piva (2003). Robust Watermarking of Video for Copyright Protection. In: J. Tasic, M. Najim, M. Ansorge eds.. Intelligent Integrated Media Communication Techniques, pp. 153-194, Boston: Kluwer Academic Publishers.
-  Alessandro Piva; Franco Bartolini; Iuve Coppini; Alessia De Rosa; Elena Tamburini (2003). Analysis of data hiding technologies for medical images. In: Security and Watermarking of Multimedia Contents V, Santa Clara, CA, USA, 21–24 January 2003, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 5020, pp. 379-390. [DOI](#)
-  R. CALDELLI;F. BARTOLINI;V. CAPPELLINI;A. PIVA;M. BARNI (2003). A New Self-Recovery Technique For Image Authentication. In: 8th International Workshop VLBV03, Madrid, Spain, 18-19 September, Springer Verlag LNCS 2849, pp. 164-171. [DOI](#)
-  M. Barni; F. Bartolini; A. De Rosa; A. Piva (2002). Color image watermarking in the Karhunen-Loeve transform domain. JOURNAL OF ELECTRONIC IMAGING, vol. 11 (1), pp. 87-95, ISSN:1017-9909 [DOI](#)
-  M. Barni; F. Bartolini; A. Piva; F. Salucco (2002). Robust Watermarking of Cartographic Images. EURASIP JOURNAL ON APPLIED SIGNAL PROCESSING, vol. 2002, pp. 197-208, ISSN:1110-8657 [DOI](#)
-  A. PIVA; M. BARNI; F. BARTOLINI (2002). Managing Copyright in Open Networks. IEEE INTERNET COMPUTING, vol. 6, n. 3, pp. 18-26, ISSN:1089-7801, IEEE Computer Society:1730 Massachusetts Avenue Northwest:Washington, DC 20036:(202)371-0101, EMAIL: [cslsp@computer.org](mailto:cslsp@computer.org), INTERNET: <http://www.computer.org>, Fax: (202)728-9614:
-  R. CALDELLI;M. BARNI;F. BARTOLINI;A. PIVA (2002). Object Watermarking for MPEG-4 Video Protection. JAPAN TELECOMMUNICATIONS REVIEW, vol. 12 n° 5, pp. 695-710, ISSN:0021-4744
-  M.BARNI; F. BARTOLINI; R. CALDELLI; V.CAPPELLINI; A. PIVA (2002). Metodo per introdurre un sincronismo all'interno di una immagine digitale e per il suo recupero, mediante l'uso di invarianti. Numero: FI2002A000001 CNR
-  M. Barni; F. Bartolini; A. Piva (2002). Multichannel Watermarking of Color Images. IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol. 12 (3), pp. 142-156, ISSN:1051-8215 [DOI](#)
-  M. BARNI;F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;M. CORSINI; A. PIVA (2002). Watermarking technology advances: moving from 2D to 3D methods. In: EVA 2002 Harvard Symposium, Cambridge, MA, October 2-3, pp. 24\_1-24\_8.
-  M. BARNI; F. BARTOLINI; A. DE ROSA; A. PIVA (2002). Optimum decoding and detection of a multiplicative amplitude encoded watermark. In: Security and Watermarking of Multimedia Contents IV, San Jose, CA, 21-24 January 2002, SPIE, vol. 4675, pp. 409-420. [DOI](#)
-  F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA; A. PIVA (2002). Watermarking for MPEG-4 Applications. In: 2nd COST 276 Workshop on Information and Knowledge Management for Integrated Media Communications, Florence, Italy, March 25-26, pp. 99-102.
-  A. PIVA;R. CALDELLI;V. CAPPELLINI;A. DE ROSA (2002). Data Hiding for Transmission Error Detection in H.263 Video. In: 2002 Tyrrhenian International Workshop on Digital Communications IWDC 2002, Capri, Italy, September 8-11, pp. 419-424.
-  M. Barni;F. Bartolini;V. Cappellini;A. Piva;F. Salucco (2001). Text based geometric normalization for robust watermarking of digital maps. In: 8th IEEE International Conference on Image Processing ICIP 2001, Thessaloniki, Greece, October 7-10, 2001, IEEE / Institute of Electrical and Electronics Engineers Incorporated:445 Hoes Lane:(800)701-4333, (732)981-0060, EMAIL: [subscription-service@ieee.org](mailto:subscription-service@ieee.org), INTERNET: <http://www.ieee.org>, Fax: (732)981-9667, vol. 1, pp. 1082-1085, ISBN:0780367251 [DOI](#)
-  A. De Rosa; M. Barni; F. Bartolini; A. Piva (2001). Watermark capacity measure incorporating a model of the human visual system. In: Electronic Imaging, San Jose, CA, 22-25 January 2001, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 4314, pp. 483-494. [DOI](#)
-  R. CALDELLI;M. BARNI;F. BARTOLINI;V. CAPPELLINI;A. PIVA (2001). Digital Video Watermarking for MPEG-4 applications. In: International Conference on Media Futures, Florence, Italy, 8-9 May, pp. 249-252.
-  F. Bartolini; R. Caldelli; V. Cappellini; A. De Rosa ; A. Piva (2001). Tecnologie di marchiatura elettronica per i Beni Culturali. ALTA FREQUENZA - RIVISTA DI ELETTRONICA, vol. 13, n°2, pp. 46-49, ISSN:1120-1908
-  M. Barni;F. Bartolini;A. Piva;F. Salucco (2001). Cartographic image watermarking using text-based normalization. In: 2001 IEEE Fourth Workshop on Multimedia Signal Processing, Cannes, France, October 3-5, 2001, IEEE, pp. 231-236, ISBN:0780370252 [DOI](#)

-  M. BARNI;F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA;A. PIVA (2001). Readable Watermarks for Cultural Heritage Copyright Protection. In: Eva 2001 Florence, Electronic Imaging & the Visual Arts, Florence, Italy, March 26-30, EVA, pp. 83-87.
-  M. BARNI;F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA;A. PIVA (2001). Robust Frame-Based Watermarking For Digital Video. In: 12th International Workshop on Database and Expert Systems Applications DEXA2001, Munich, Germany, September 3 - 4, IEEE, pp. 825-829. [DOI](#)
-  F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA;A. PIVA (2001). Advanced Information Technologies for Cultural Heritage Application. In: 1° Congresso Nazionale La Scienza dell'Arte, Bressanone, Italy, 26 Febbraio-1 Marzo, pp. 113-123.
-  M. BARNI; F. BARTOLINI; A. PIVA (2001). Watermarking-Based Copyright Protection of Internet-delivered Multimedia. In: International Conference on Web Delivering of Music WEDELMUSIC2001, Florence, Italy, 30th Nov.-1st December 2001, IEEE, pp. 36-42.
-  F. Bartolini; C. Pasquini; A. Piva (2001). Evaluating the effectiveness of SW-only video coding for real-time video transmission over low-rate wireless networks. In: Electronic Imaging, San Jose, CA, 25 January 2001, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 4303, pp. 1-8. [DOI](#)
-  M. Barni; F. Bartolini; A. De Rosa; A. Piva (2001). A New Decoder for the Optimum Recovery of Non-Additive Watermarks. IEEE TRANSACTIONS ON IMAGE PROCESSING, vol. 10 (5), pp. 755-766, ISSN:1057-7149 [DOI](#)
-  F. Bartolini;A. Manetti;A. Piva;M. Barni (2001). A data hiding approach for correcting errors in H.263 video transmitted over a noisy channel. In: 2001 Workshop on Multimedia Signal Processing, Cannes, France, October 3-5, 2001, IEEE, pp. 65-70, ISBN:0780370252 [DOI](#)
-  F. BARTOLINI;M. BARNI;V. CAPPELLINI;R. CALDELLI;A. DE ROSA;A. PIVA (2001). MPEG-4 video data protection for Internet distribution. In: 2001 Tyrrhenian International Workshop on Digital Communications IWDC 2001, Taormina, Italy, September 17-20, Springer, pp. 713-720. [DOI](#)
-  M. BARNI; F. BARTOLINI; R. CALDELLI; V. CAPPELLINI; A. DE ROSA; A. PIVA (2001). Amplitude Modulation for Readable Watermarks. In: 1st and 2nd COST 276 Workshops on Information and Knowledge Management for Integrated Media Communications, Leganés, Madrid, Spain, November 27-29, 2001, COST 276, pp. 93-96.
-  M. Barni; F. Bartolini; R. Caldelli; V. Cappellini; A. De Rosa; A. Piva (2001). Readable watermarks suitable for Cultural Heritage copyright protection. In: 1° Congresso Nazionale "La Scienza dell'Arte, Bressanone, Italy, 26 Febbraio-1 Marzo, pp. 124-128.
-  M. Barni; F. Bartolini; A. Piva (2001). Improved Wavelet-Based Watermarking Through Pixel-Wise Masking. IEEE TRANSACTIONS ON IMAGE PROCESSING, vol. 10 (5), pp. 783-791, ISSN:1057-7149 [DOI](#)
-  F. BARTOLINI;R. CALDELLI;V. CAPPELLINI ;A. DE ROSA ;A. PIVA (2001). Tecnologie per la gestione della proprietà intellettuale di beni digitali. NOTIZIARIO TECNICO TELECOM ITALIA, vol. 10, n°2, pp. 103-111
-  F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA;A. PIVA (2000). Tecnologie per la gestione automatica dei diritti di autore e il commercio elettronico. In: Conferenza "La Telematica per i Beni Culturali", Firenze, 31 Marzo, pp. 72-77.
-  A. PIVA;R. CALDELLI;A. DE ROSA (2000). A DWT-based object watermarking system for MPEG-4 video streams. In: 7th IEEE International Conference on Image Processing ICIP 2000, Vancouver, Canada, September 10-13, vol. III, pp. 5-8.
-  R. CALDELLI;M. BARNI;F. BARTOLINI;A. PIVA (2000). Geometric-Invariant Robust Watermarking through Constellation Matching in the Frequency Domain. In: 7th IEEE International Conference on Image Processing ICIP 2000, Vancouver, Canada, September 10-13, vol. II, pp. 65-68.
-  A. PIVA;R. CALDELLI (2000). Tecniche di marchiatura elettronica per la protezione dei diritti di proprietà intellettuale. ELETTRONICA E TELECOMUNICAZIONI, pp. 3-21, ISSN:0013-6123
-  M. Barni; F. Bartolini; A. De Rosa; A. Piva (2000). Capacity of Full Frame DCT Image Watermarks. IEEE TRANSACTIONS ON IMAGE PROCESSING, vol. 9 (8), pp. 1450-1455, ISSN:1057-7149
-  M. Barni; F. Bartolini; V. Cappellini; A. De Rosa; A. Piva (2000). Improving the robustness of nonadditive watermarks through optimum detection theory. In: Electronic Imaging, San Jose, CA, Jan. 2000, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 3971, pp. 2-13. [DOI](#)

-  F. BARTOLINI;M. BARNI;V. CAPPELLINI;R. CALDELLI;A. DE ROSA;A. PIVA (2000). MPEG-4 video data protection for multimedia fruition. In: Proceedings of 4th International Conference on Visual Systems and Multimedia VSMM 2000, Gifu, Japan, October 4-6.
-  M. BARNI;F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA;A. PIVA;M. WADA (2000). Copyright Protection of Cultural Heritage Multimedia data through Digital Watermarking Techniques. In: 11th International Workshop on Database and Expert Systems Applications DEXA2000, Greenwich, United Kingdom, September 4 - 8.
-  F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA;A. PIVA (2000). Digital Watermarking: a Solution to Electronic Copyright Management Systems Requirements. In: Proc 9th International World Wide Web Conference, Amsterdam, May 15 - 19. [Accesso ONLINE all'editore](#)
-  F. BARTOLINI;M. BARNI;V. CAPPELLINI;R. CALDELLI;A. DE ROSA;A. PIVA (2000). La marchiatura elettronica delle immagini per la tutela del copyright. In: Convegno Conclusivo Progetto MURST "Comunicazione Multimediale", Padova, Italy, 14-15 Febbraio, vol. IV. A, pp. 1-10.
-  M. Barni; F. Bartolini; J. Fridrich; M. Goljan; A. Piva (2000). Digital Watermarking for the Authentication of AVS data. In: European Signal Processing Conference EUSIPCO 2000, Tampere, Finland, September 5-8, 2000, EUSIPCO, pp. 1037-1040.
-  M. BARNI;F. BARTOLINI;R. CALDELLI;A. DE ROSA; A. PIVA (2000). A Robust Watermarking Approach for Raw Video. In: CD-ROM Proceedings of PV2000 10th International Packet Video Workshop, Cagliari, Italy, 1-2 May.
-  M. BARNI; F. BARTOLINI; V. CAPPELLINI; A. DE ROSA; A. PIVA (2000). Metodo di rivelazione di un marchio in immagini digitali. Numero: IT1308274 UNIVERSITA' DEGLI STUDI DI FIRENZE
-  M. BARNI; F. BARTOLINI; V. CAPPELLINI; A. DE ROSA; A. PIVA (2000). Method of detecting a watermark in digital images. Numero: WO0063647 UNIVERSITA' DEGLI STUDI DI FIRENZE
-  A. De Rosa;M. Barni;F. Bartolini;V.Cappellini;A. Piva (2000). Optimum Decoding of Non-additive Full Frame DFT Watermarks. In: Third International Workshop on Information Hiding, Dresden, Germany, 29 September-1 October, 1999, vol. 1768, pp. 159-171, ISBN:9783540465140 [DOI](#)
-  F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA;A. NOZZOLI; A. PIVA (2000). How Watermarking Can Really Safeguard Intellectual Property Rights Of A Virtual Museum. In: Proceedings Eva 2000 Florence, Electronic Imaging & the Visual Arts, Florence, Italy, March 27-31, pp. 125-130.
-  A. Piva; F. Bartolini; L. Boccardi; V. Cappellini; A. De Rosa; M. Barni (2000). Watermarking through color image bands decorrelation. In: 2000 IEEE International Conference on Multimedia and Expo. ICME2000. Proceedings. Latest Advances in the Fast Changing World of Multimedia (Cat. No.00TH8532), New York City, NY, USA, July 30 - August 2, 2000, IEEE / Institute of Electrical and Electronics Engineers Incorporated:445 Hoes Lane:Piscataway, NJ 08854:(800)701-4333, (732)981-0060, EMAIL: [subscription-service@ieee.org](mailto:subscription-service@ieee.org), INTERNET: <http://www.ieee.org>, Fax: (732)981-9667, vol. 3, pp. 1283-1286, ISBN:0780365364 [DOI](#)
-  M. BARNI; F. BARTOLINI; V. CAPPELLINI; A. PIVA (2000). Metodo e sistema di marchiatura o cosiddetto watermarking di immagini digitali. Numero: IT1308273 UNIVERSITA' DEGLI STUDI DI FIRENZE
-  M. Barni; F. Bartolini; V. Cappellini; A. Piva (2000). Digital Watermarking for the Authentication of AVS Video Sequences. In: G.L.FORESTI; P.MHNEN. Multimedia Video-Based Surveillance Systems. Requirements, Issues and Solutions, pp. 186-196, NORWELL, MA: Kluwer Academic Publishers.
-  F. BARTOLINI;R. CALDELLI;V. CAPPELLINI;A. DE ROSA;M. WADA;A. NOZZOLI; A. PIVA (2000). Watermarking for I.P.R. Protection of the Tuscany & Gifu Art Virtual Gallery. In: SPIE Internet Imaging, San Jose, CA, 26-28 January, Beretta, Schettini, vol. 3964, pp. 362-371.
-  M. Barni; F. Bartolini; L. Boccardi; A. De Rosa; A. Piva (2000). KL-transform-based color image watermarking. In: Electronic Imaging, San Diego, California, 30 July - 4 August, 2000, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 4122, pp. 18-28. [DOI](#)
-  M. Barni; F. Bartolini; A. Piva (2000). Digital Watermarking of Visual Data: State of the Art and New trends. In: European Signal Processing Conference EUSIPCO 2000, Tampere, Finland, September 5-8, 2000, EUSIPCO, pp. 1657-1664.
-  R. CALDELLI;M. BARNI;F. BARTOLINI;A. PIVA (2000). A robust frame-based technique for video watermarking. In: CD-ROM Proceedings of Eusipco 2000 Conference, Tampere, Finland, September 5-8, pp. 1969-1972.
-  M. Barni; F. Bartolini; V. Cappellini; A. Lippi; A. Piva (1999). DWT-based technique for spatio-frequency masking of digital signatures. In: Electronic Imaging, San Jose, CA, January 1999, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 3657, pp. 31-39. [DOI](#)

-  F. Bartolini;G. Bini;V. Cappellini;A. Fringuelli;G. Meucci;A. Piva;M. Barni (1999). Enforcement of copyright laws for multimedia through blind, detectable, reversible watermarking. In: Proceedings of 6th IEEE International Conference on Multimedia Computing and Systems ICMCS'99, Florence, Italy, June 7-11, 1999, vol. 2, pp. 199-203, ISBN:0769502539 [DOI](#)
-  R. CALDELLI;F. BARTOLINI;V. CAPPELLINI;A. DE ROSA;A. PIVA (1999). Tecnologie di marchiatura elettronica per i Beni Culturali. In: "Primo Seminario Nazionale sulla Catalogazione", Roma, 24-26 Novembre, pp. 291-294.
-  A. Piva; M. Barni; F. Bartolini; V. Cappellini; A. De Rosa; M. Orlandi (1999). Improving DFT Watermarking robustness through optimum detection and synchronisation. In: Multimedia and Security Workshop at ACM Multimedia '99, Orlando, Florida, October 1999, GMD, pp. 65-69.
-  A. Piva; F. Bartolini; V. Cappellini; M. Barni (1999). Exploiting the cross-correlation of RGB-channels for robust watermarking of color images. In: 6th IEEE International Conference on Image Processing ICIP'99, Kobe, Japan, October 25-28, 1999, IEEE / Institute of Electrical and Electronics Engineers Incorporated:445 Hoes Lane:Piscataway, NJ 08854:(800)701-4333, (732)981-0060, EMAIL: [subscription-service@ieee.org](mailto:subscription-service@ieee.org), INTERNET: <http://www.ieee.org>, Fax: (732)981-9667, vol. 1, pp. 306-310, ISBN:0780354672 [DOI](#)
-  M. Barni; F. Bartolini; V. Cappellini; A. De Rosa ; A. Piva (1999). A system for the electronic management of copyright in multimedia. In: Fifth Bayona Workshop on Emerging Technologies in Telecommunications, Bayona, Spain, September 6-8, 1999, pp. 144-148.
-  F. Bartolini; V. Cappellini;A. Piva;A. Fringuelli;M. Barni (1999). Electronic copyright management systems: requirements, players and technologies. In: Tenth International Workshop on Database and Expert Systems Applications. DEXA 99, Florence, Italy, September 1-3, 1999, pp. 896-898, ISBN:0769502814 [DOI](#)
-  A. Piva (1999). A DCT-Domain Watermarking System for Copyright Protection of Digital Images. (Tutor: V. Cappellini, E. Del Re)
-  M. Barni; F. Bartolini; A. De Rosa; A. Piva (1999). Capacity of the watermark channel: how many bits can be hidden within a digital image?. In: Electronic Imaging, San Jose', CA, January 1999, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 3657, pp. 437-448. [DOI](#)
-  M. Barni; F. Bartolini; V. Cappellini; A. Piva; F. Rigacci (1998). A MAP identification criterion for DCT-based watermarking. In: European Signal Processing Conference EUSIPCO 98, Island of Rhodes, Greece, September 8-11, 1998, EUSIPCO, vol. 1, pp. 17-20.
-  F. Bartolini; M. Barni; V. Cappellini; A. Piva (1998). Mask building for perceptually hiding frequency embedded watermarks. In: 5th IEEE International Conference on Image Processing ICIP'98, Chicago, Illinois, USA, October 4-7, 1998, vol. 1, pp. 450-454, ISBN:0818688211 [DOI](#)
-  V. Cappellini; A. Piva (1998). Il copyright nelle applicazioni telematiche. AEI AUTOMAZIONE ENERGIA INFORMAZIONE, vol. 85, pp. 45-47, ISSN:1122-2824
-  A. Piva; M. Barni; F. Bartolini (1998). Copyright protection of digital images by means of frequency domain watermarking. In: Electronic Imaging, San Diego, California, July 21-22, 1998, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS(SPIE), vol. 3456, pp. 25-35. [DOI](#)
-  Barni, M.; Bartolini, F.; Piva, A.; Rigacci, F. (1998). Statistical modelling of full-frame DCT coefficients. In: European Signal Processing Conference EUSIPCO 98, Island of Rhodes, Greece, September 8-11, 199, EUSIPCO, vol. 3, pp. 1513-1516.
-  A. Piva; M. Barni; F. Bartolini; V. Cappellini (1998). Application-driven requirements for digital watermarking technologies. In: , J.-Y. Roger et al. (Eds.). Technologies for the Information Society: Developments and Opportunities, pp. 513-520, Amsterdam: IOS Press Nieuwe Hemweg 6B, 1013 BG Amsterdam, The Netherlands Tel.: +31 20 688 3355, Fax: +31 20 687 0039 E-mail: [info@iospress.nl](mailto:info@iospress.nl).
-  M. Barni; F. Bartolini; V. Cappellini; A. Piva (1998). Interoperability Issues in Watermark-Based Electronic Copyright Management. In: 4th International Conference on Virtual Systems and Multimedia VSMM'98, Gifu, Japan, November 18-20, 1998, vol. 1, pp. 140-144.
-  A. Piva; M. Barni; F. Bartolini; V. Cappellini (1998). A watermarking technique for the protection of digital images IPR. In: J.-Y. Roger et al. (Eds.). Advances in Information Technologies: The Business Challenge, pp. 636-643, Amsterdam: IOS Press Nieuwe Hemweg 6B, 1013 BG Amsterdam, The Netherlands Tel.: +31 20 688 3355, Fax: +31 20 687 0039 E-mail: [info@iospress.nl](mailto:info@iospress.nl), ISBN:9051993854.
-  M. Barni; F. Bartolini; V. Cappellini; A. Piva (1998). A DCT-domain system for robust image watermarking. SIGNAL PROCESSING, vol. 66 (3), pp. 357-372, ISSN:0165-1684
-  M. Barni; F. Bartolini; V. Cappellini; A. Piva (1998). Copyright protection of digital images by embedded unperceivable marks. IMAGE AND VISION COMPUTING, vol. (16)12-13, pp. 897-906, ISSN:0262-8856



-  F. Bartolini;A. Piva (1997). Enhancement of the Horn and Schunck optic flow algorithm by means of median filters. In: 13th International Conference on Digital Signal Processing DSP97, Santorini, Greece, July 2-4, 1997, IEEE / Institute of Electrical and Electronics Engineers Incorporated:445 Hoes Lane:Piscataway, NJ 08854: (800)701-4333, (732)981-0060, EMAIL: [subscription-service@ieee.org](mailto:subscription-service@ieee.org), INTERNET: <http://www.ieee.org>, Fax: (732)981-9667, vol. 2, pp. 503-506, ISBN:0780341376 [DOI](#)
-  M. Barni;F. Bartolini;V. Cappellini;A. Piva (1997). Robust watermarking of still images for copyright protection. In: 13th International Conference on Digital Signal Processing DSP97, Santorini, Greece, July 2-4, vol. 2, pp. 499-502, ISBN:0780341376 [DOI](#)
-  A. Piva;M. Barni;F. Bartolini;V. Cappellini (1997). DCT-based watermark recovering without resorting to the uncorrupted original image. In: 4th IEEE International Conference on Image Processing ICIP'97, Santa Barbara, CA, USA, October 26-29, 1997, vol. 1, pp. 520-523, ISBN:0818681837 [DOI](#)
-  F. BARTOLINI; A. PIVA (1997). Median based relaxation of smoothness constraints in optic flow computation. PATTERN RECOGNITION LETTERS, vol. 18, n. 7, pp. 649-655, ISSN:0167-8655, Elsevier Science Limited:Oxford Fulfillment Center, PO Box 800, Kidlington Oxford OX5 1DX United Kingdom:011 44 1865 843000, 011 44 1865 843699, EMAIL: [asianfo@elsevier.com](mailto:asianfo@elsevier.com), [tcb@elsevier.co.UK](mailto:tcb@elsevier.co.UK), INTERNET: <http://www.elsevier.com>, <http://www.elsevier.com/locate/shpsa/>, Fax: 011 44 1865 843010: