

PUBLICATIONS

International Journals

- V. Bruni, M. Tartaglione, D. Vitulano, Skeleton-based reassignment of nonstationary signals spectrogram, *Digital Signal Processing: A Review Journal*, 128, 2022
- V. Bruni, M. L. Cardinali, D. Vitulano, A Short Review on Minimum Description Length: An Application to Dimension Reduction in PCA, *Entropy – MDPI*, 24(2), 2022
- V. Bruni, M. L. Cardinali, D. Vitulano, An MDL-Based Wavelet Scattering Features Selection for Signal Classification, *Axioms - MDPI*, 11(8), 2022
- Tanga, V. Giliberti, F. Vitucci, D. Vitulano, V. Bruni, A. Rossetti, G. C. Messina, M. Daniele, G. Ruocco, M. Ortolani, Terahertz scattering microscopy for dermatology diagnostics, *JPhys Photonics*, 3(3), 2021
- V. Bruni, D. Vitulano, A fast preprocessing method for micro-expression spotting via perceptual detection of frozen frames, *Journal of Imaging MDPI*, 7(4), 2021
- V. Bruni, M. Tartaglione, D. Vitulano, A pde-Based Analysis of the Spectrogram Image for Instantaneous Frequency Estimation, *Mathematics MDPI*, 9(3), pp. 1–33, 2021
- V. Bruni, M. Tartaglione, D. Vitulano, Coherence of PRNU weighted estimations for improved source camera identification, *Multimedia Tools and Applications*, Springer, 2021
- V. Bruni, M. Tartaglione, D. Vitulano, A signal complexity-based approach for AM–FM signal modes counting, *Mathematics MDPI*, 8(12), pp. 1–33, 2020
- V. Bruni, M. Tartaglione, D. Vitulano, Radon spectrogram-based approach for automatic IFs separation, *Eurasip Journal on Advances in Signal Processing*, Springer, 13, 2020
- V. Bruni, M. Cotronei, F. Pitolli, A family of level-dependent biorthogonal wavelet filters for image compression, *Journal of Computational and Applied Mathematics*, Elsevier, vol. 367, 2020
- V. Bruni, M. Tartaglione, D. Vitulano, An iterative approach for spectrogram reassignment of frequency modulated multicomponent signals, *Mathematics and Computers in Simulation*, Elsevier, vol. 176, pp. 96-119, 2020
- V. Bruni, L. Della Cioppa, D. Vitulano, An Automatic and Parameter-Free Information-Based Method for Sparse Representation in Wavelet Bases, *Mathematics and Computers in Simulation*, Elsevier, vol. 176, pp. 73-95, 2020
- V. Bruni, D. Vitulano, An entropy based approach for SSIM speed up, *Signal Processing*, Elsevier Science, vol. 135, pp. 198-209, June 2017.
- V. Bruni, M. Tartaglione, D. Vitulano, A fast and robust spectrogram reassignment method, *Mathematics*, MDPI, vol. 4 no. 4, 2019
- M. C. Basile, V. Bruni, F. Buccolini, D. De Canditiis, S. Tagliaferri, and D. Vitulano, Automatic and Noninvasive Indoor Air Quality Control in HVAC Systems, *Journal of Industrial Mathematics*, Hindawi, vol. 2016, 2016.
- V. Bruni, D. Vitulano, A robust perception based method for iris tracking, *Pattern Recognition Letters*, Elsevier Science, vol. 57, pp. 74-80, May 2015.
- V. Bruni, D. Vitulano, An Improvement of Kernel-based Object Tracking based on Human Perception, *IEEE Transactions on Systems, Man and Cybernetics: Systems*, vol. 44, no. 11, pp. 1474-1485, November 2014.

- V. Bruni, D. De Canditiis, D. Vitulano, Speed up of Video Enhancement based on Human Perception, *Signal Image and Video Processing*, Springer, vol. 8, Issue 7, pp. 1109-1209, October 2014.
- V. Bruni, E. Rossi, D. Vitulano, Automated Restoration of Semi-Transparent Degradation via Lie Groups and Visibility Laws, *Mathematics and Computers in Simulation*, Elsevier Science, vol. 106, issue C, pp. 109-123, December 2014.
- V. Bruni, E. Rossi, D. Vitulano, A Model for the Restoration of Semi-transparent Defects Based on Lie Groups and Human Visual System, *Computer Vision, Imaging and Computer Graphics. Theory and Application*, Communications in Computer and Information Science serie, Springer, vol. 0359, pp. 354-368, 2013, selected paper in VISAPP 2012.
- V. Bruni, E. Rossi, D. Vitulano, Jensen Shannon Divergence for Visual Quality Assessment, *Signal Image and Video Processing*, Springer, Special Issue on Human Vision and Information Theory, Vol. 7, No. 3, pp. 411-421, May 2013.
- V. Bruni, S. Marconi, B. Piccoli, D. Vitulano, Instantaneous frequency estimation of interfering FM signals through time-scale isolevel curves, *Signal Processing*, Elsevier Science, vol. 93, no. 4, pp. 882-896, April 2013.
- V. Bruni, A. Crawford, A. Kokaram, D. Vitulano, Semi-transparent Blotches Removal from Sepia Images Exploiting Visibility Laws, *Signal Image and Video Processing*, Springer, vol. 7, no. 1, pp. 11-26, January 2013.
- V. Bruni, D. De Canditiis, D. Vitulano, Time-scale energy based analysis of contours of real-world shapes, *Mathematics and Computers in Simulation*, Elsevier, Vol. 12, Issue 12, pp. 2891-2907, August 2012.
- V. Bruni, E. Rossi, D. Vitulano, On the Equivalence between Jensen-Shannon Divergence and Michelson Contrast, *IEEE Transactions on Information Theory*, vol. 58, no. 7, pp. 4278-4288, July 2012.
- V. Bruni, D. Vitulano, Time Scale Similarities for Robust Image Denoising, *Journal of Mathematical Imaging and Vision*, vol. 44, no. 1, pp. 52-64, September 2012.
- V. Bruni, D. De Canditiis, D. Vitulano, Local Sorting for Adaptive Signal Regularization, *IEEE Signal Processing Letters*, vol. 17, no. 7, pp. 691 - 694, July 2010.
- V. Bruni, S. Marconi, D. Vitulano, Time-scale Atoms Chains for Transients Detection in Audio Signals, *IEEE Transactions on Audio, Speech and Language Processing*, vol. 18, no. 3, pp. 420-433, March 2010.
- V. Bruni, G. Ramponi, A. Restrepo, D. Vitulano, Context based Defading of Archive Photographs, *EURASIP Journal on Image and Video Processing*, Special Issue on Image and Video Processing for Cultural Heritage, vol. 2009, 2009.
- V. Bruni, B. Piccoli, D. Vitulano, A Fast Computation Method for Time-scale Signal Denoising, *Signal Image and Video Processing*, Springer, Vol. 3, Issue 1, pp. 63-83, May 2009.
- V. Bruni, D. De Canditiis, D. Vitulano, Phase Information and Space Filling Curves in Noisy Motion Estimation, *IEEE Transactions on Image Processing*, Vol. 18, No. 7, pp. 1660-1664, July 2009.
- V. Bruni, P. Ferrara, D. Vitulano, Removal of Color Scratches from Old Motion Picture Films Exploiting Human Perception, *EURASIP Journal on Advances in Signal Processing*, Special issue in Digital Automatic Restoration of Audiovisual Archives, vol. 2008, 2008.
- V. Bruni, B. Piccoli, D. Vitulano, Wavelets and Pde for Image Denoising, *Electronic Letters on Computer Vision and Image Analysis (ELCVIA)*, Special Issue on Partial Differential Equations Methods in Graphics and Vision, Vol. 6, No. 2, pp. 36-53, January 2008.

- V. Bruni, D. Vitulano, Combined Image Compression and Denoising using Wavelets, *Signal Processing: Image Communication*, Elsevier Science, Vol. 22, Issue 1, pp. 86-101, January 2007.
- L. Appolonia, V. Bruni, R. Cossu, D. Vitulano, Computer-aided Monitoring of Buildings of Historical Importance based on Color, *Journal of Cultural Heritage*, Elsevier Science, Vol. 7, Issue 2, pp. 85-91, April/June 2006.
- V. Bruni, B. Piccoli, D. Vitulano, Time Scale Dependencies for Image Compression, *Journal of Multimedia*, Academic Press, Vol.1, Issue 1, pp. 44-55, April 2006.
- V. Bruni, D. Vitulano, Wavelet based Signal De-noising via Simple Singularities Approximation, *Signal Processing Journal*, Elsevier Science, Vol. 86, Issue 4, pp. 859-876, April 2006.
- V. Bruni, U. Maniscalco, D. Vitulano, Fast Segmentation and Modeling of Range Data via Steerable Pyramid and Superquadrics, *Journal of WSCG*, Vol. 12, no.1, pp. 73-80, ISSN 1213-6972, February 2004.
- V. Bruni, D. Vitulano, Old Movies Noise Reduction via Wavelets and Wiener Filter, *Journal of WSCG*, Vol. 12, no.1, pp. 65-72, February 2004.
- V. Bruni, D. Vitulano, A Generalized Model for Scratch Detection, *IEEE Transactions on Image Processing*, Vol. 13, No. 1, pp. 44-50, January 2004.
- D. Vitulano, V. Bruni, P. Ciarlini, Line Scratch Detection on Digital Images: An Energy Based Model, *Journal of WSCG, Special Issue*, vol. 10, no. 2, pp. 447-484, ISSN 1213-6972, February, 2002.

Chapters in International Books

- V. Bruni, D. Vitulano, Methods and perspectives in face tracking based on human perception, invited chapter in "Face recognition in adverse conditions", IGI Global 2014.
- A. Kokaram, D. Vitulano, D. Corrigan, V. Bruni, F. Pitie, A. Crawford, "Advances in Automated Restoration of Archived Video", invited chapter in *Digital Imaging for Cultural Heritage Preservation*, CRC Press, 2011.
- V. Bruni, A. Crawford, A. Kokaram, D. Vitulano, "Visual perception of semi-transparent blotches: detection and restoration", invited chapter in *I-Tech Book: Brain, Vision and AI*, chapter 1, 2008.

Chapters in National Books

- V. Bruni, M.R. Romano, D. Vitulano, "Estrazione di regioni di interesse nelle immagini dei Beni Culturali", in *Comunicazione Multimediale per i Beni Culturali*, pp. 169-180, Addison-Wesley ed., 2003.

Editorials

- V. Bruni, D. Vitulano, Z. Wang, "Special Issue on Human Vision and Information Theory", *Signal Image and Video Processing*, Springer, Vol. 7, No. 3, pp. 389-390, May 2013.

International Conferences

- M.L. Cardinali, F. Albertin, L. Cartechini, I. C. A. Sandu, E. Storevik Tveit, A. Romani, C. Grazia, R. P. De Freitas, V. Bruni, D. Vitulano, F. Rosi, Unveiling "The Scream" by Edvard Munch: Iterative Fuzzy C-means Analysis Of Macro-XRF Mapping, *Proceedings of the International Conference Whispers 2022*, Rome, Italy 2022

- V. Bruni, G. Monteverde, D. Vitulano, An entropy-based speed up for hyperspectral data classification via CNN, Proceedings of the International Conference Whispers 2022, Rome, Italy 2022
- V. Bruni, S. Marconi, D. Vitulano, A Novel Fourier-based Approach for Camera Identification, Proc. of IMPROVE 2021, pp: 99-106, 2021
- V. Bruni, L. Della Cioppa, D. Vitulano, A multiscale energy-based time-domain approach for interference detection in non-stationary signals, Lecture Notes in Computer Science – Proc. of ICIAR 2020, vol. 12132 LNCS, pp. 36-47, 2020
- V. Bruni, D. Vitulano, SSIM based Signature of Facial Micro-Expressions, Lecture Notes in Computer Science – Proc. of ICIAR 2020, vol. 12131 LNCS, pp. 267-279, 2020
- V. Bruni, M. Tartaglione, D. Vitulano, Instantaneous frequency modes separation via a Spectrogram-Radon based approach, Proc. of Proceedings of the 11th International Symposium on Image and Signal Processing and Analysis (ISPA 2019) - Special Session on Methods and Applications of Time-Frequency Signal Analysis, Dubrovnik, Croatia, September 2019
- V. Bruni, D. Vitulano, The Rational Dilation Wavelet Transform: a flexible tool for perception-inspired signal and image processing, IARIA Proc. of VISUAL 2019, Rome, July 2019
- V. Bruni, D. Vitulano, The role of complexity in visual perception: some results and perspectives, IARIA Proc. of VISUAL 2019, Rome, July 2019
- V. Bruni, A. Salvi, D. Vitulano, Joint Correlation Measurements for PRNU-Based Source Identification, Lecture notes in Computer Science, vol. 11678, CAIP 2019, Salerno, Italy, September 3-5, 2019, Proceedings, Part II, 245-256
- V. Bruni, G. Ramella, D. Vitulano, An Adaptive Copy-Move Forgery Detection Using Wavelet Coefficients Multiscale Decay, Lecture notes in Computer Science vol. 11678, CAIP 2019, Salerno, Italy, September 3-5, 2019, Proceedings, Part I, 469-480
- V. Bruni, L. Della Cioppa, D. Vitulano, "A normalized information based method for efficient signal representations", Proceedings of MASCOT 2018
- V. Bruni, M. Tartaglione, D. Vitulano, "An iterative spectrogram reassignment of frequency modulated multicomponent signals", Proceedings of MASCOT 2018
- V. Bruni, A. Salvi, D. Vitulano, A wavelet based image fusion method using local multiscale image regularity, Lecture notes in Computer Science, vol. 1182, ACIVS 2018
- V. Bruni, D. Vitulano, Image denoising using collaborative patch-based and local methods, Lecture notes in Computer Science, vol. 10884, ICISP 2018
- V. Bruni, L. Della Cioppa, D. Vitulano, An Entropy-Based Approach for Shape Description, Proc. of EURASIP International Conference EUSIPCO 2018, Rome, September 2018
- V. Bruni, M. Tartaglione, D. Vitulano, On the Time-Frequency Reassignment of Interfering Modes in Multicomponent FM Signals, Proc. of EURASIP International Conference EUSIPCO 2018, Rome, September 2018
- F. Angelini, V. Bruni, I. Selesnick, D. Vitulano, A Rational-dilation Wavelet Transform with Signal Dependent Dilation Factor. In: IMACS Series in Computational and Applied Mathematics, the MASCOT2015 Book of Proceedings. vol. 20, p. 1-10, Rome, 2017.

- M. C. Basile, V. Bruni, D. Vitulano, A CSF-based preprocessing method for image deblurring, Proc. of ACIVS 2017, Anversa, Belgium, Sept. 2017, special issue in Lecture Notes in Computer Science, Springer, vol. 10617, p. 602-614, 2017.
- V. Bruni, G. Ramella, D. Vitulano, Perceptual-based Color Quantization, Proc. of the Int. Conference on Image Analysis and Processing, Catania, Italy, Sept. 2017, Special issue in Lecture Notes in Computer Science, vol. 10484, p. 671-681, 2017.
- M. C. Basile, V. Bruni, F. Buccolini, D. De Canditiis, S. Tagliaferri, D. Vitulano, Non invasive indoor air quality control through HVAC systems cleaning state, Proceedings of the Int. Conference on Sustainable Housing 2016, Porto, Portugal, Nov. 2016.
- V. Bruni, D. Vitulano, Jensen Shannon divergence as reduced reference measure for image denoising, Proc. of ACIVS 2016, Lecce, Italy, Oct. 2016, special issue in Lecture Notes in Computer Science, vol. 10016, pp. 311-323, 2016.
- V. Bruni, D. Vitulano, An entropy-based model for a fast computation of SSIM, Proc. of VISAPP 2016, Rome, Italy, Feb. 2016.
- F. Angelini, V. Bruni, I. Selesnick, D. Vitulano, Adaptive Scale Selection for Multiscale Image Denoising, Proc. of ACIVS 2015, Catania, Italy, special issue in Lecture Notes in Computer Science, vol. 9386, pp. 81-92, 2015.
- V. Bruni, L. Tarchi, I. Selesnick, D. Vitulano, An adaptive perception-based image preprocessing method, Proc. of IEEE-EURASIP International Conference EUSIPCO 2015, pp. 2331-2335, Nice, France, Sept. 2015.
- V. Bruni, D. Panella, D. Vitulano, Non Local Means Image Denoising using Noise-Adaptive SSIM, Proc. of IEEE-EURASIP International Conference EUSIPCO 2015, pp. 2326-2330, Nice, France, Sept. 2015.
- V. Bruni, G. Ramella, D. Vitulano, Automatic Perceptual Color Quantization of Dermoscopic Images, Proceedings of the 10th International Conference on Computer Vision Theory and Applications VISAPP 2015, SciTePress, Lisbona, pp. 323-330, March 2015.
- V. Bruni, D. Vitulano, Z. Wang, A novel spatial pooling technique for image quality assessment based on luminance-contrast dependence, Proceedings of EUVIP'2014: Fifth European Workshop on Visual Information Processing, Paris, 10-12 Dec. 2014.
- V. Bruni, D. Vitulano, A fast computation method for IQA metrics based on their typical set, Proceedings of ICPRAM 2014 - Int'l Conf. on Pattern Recognition Applications and Methods (Angers/France), pp. 199-206, 2014.
- V. Bruni, D. Vitulano, A Perception-Based Interpretation of the Kernel-Based Object Tracking, Proc. of ACIVS 2013, special issue in Lecture Notes in Computer Science, vol. 8192, pp. 596-607, 2013
- V. Bruni, F. Pitoli, C. Poggi, An inversion method based on random spatial sampling for magnetic tomography, Proceedings of MASCOT 2013.
- V. Bruni, D. Vitulano, Evaluation of degraded images using adaptive Jensen-Shannon divergence, Proceedings of IEEE International Symposium on Image and Signal Processing and Analysis, ISPA 2013, pp. 536-541, Trieste, Italy, Sept. 2013.

- V. Bruni, D. Vitulano, Signal and image denoising without regularization, Proceedings of IEEE International Conference on Image Processing 2013, pp. 539-542, Melbourne, Australia, Sept. 2013.
- V. Bruni, E. Rossi, D. Vitulano, Perceptual Object Tracking, Proceedings of IEEE International Workshop BIOMS 2012, pp. 26-32, Salerno, Italy, September 2012.
- V. Bruni, E. Rossi, D. Vitulano, Unsupervised Perception-based Image Restoration of Semi-transparent Degradation using Lie Group Transformations, Proc. of WSCG 2012, part 2, Plzen, CZ, 2012.
- V. Bruni, E. Rossi, D. Vitulano, Image Restoration via Human Perception and Lie Groups, in Proceedings of VISAPP 2012, vol. 1, pp. 66-74, Rome, Italy, February 2012.
- V. Bruni, G. Ramponi, D. Vitulano, Image Quality Assessment through a Subset of the Image Data, IEEE International Symposium on Image and Signal Processing and Analysis, ISPA 2011, pp. 414-419, Dubrovnik, Croatia, September 4-6, 2011.
- V. Bruni, E. Rossi, D. Vitulano, Visual perception and Lie algebra for image restoration, Proc. of MASCOT 2011, October 2011.
- V. Bruni, D. De Canditiis, D. Vitulano, Human Visual System for complexity reduction of image and video restoration, Proceedings of 14th International Conference, CAIP 2011 Seville, Spain August 2011, Lecture Notes in Computer Science, vol. 6855, Part II, pp. 261-268, 2011.
- V. Bruni, E. Rossi, D. Vitulano, Optimal Image Restoration using HVS-based Rate-Distortion Curve, Proceedings of 14th International Conference, CAIP 2011 Seville, Spain August 2011, Lecture Notes in Computer Science, vol. 6855, Part II, pp. 269-276, 2011.
- V. Bruni, S. Marconi, D. Vitulano, Instantaneous Frequency Detection via Ridge Neighbor Tracking, Proceedings of IEEE International Conference CIP 2010, pp. 174-179, Isola D'Elba (Italy), June 2010.
- V. Bruni, D. De Canditiis, D. Vitulano, Time scale descriptors of highly oscillating contours, Proceedings of MASCOT 2009, August 2009.
- V. Bruni, D. Vitulano, Image denoising using similarities in the time scale plane, Proceedings of the International Conference ACIVS 2008, Juan les Pins, October 2008, special issue on Lecture Notes in Computer Science vol. 5259, pp. 368-379, 2008.
- V. Bruni, B. Piccoli, D. Vitulano, Following edges along scales, Proceedings of the IASTED International Conference VIIP 2008, pp. 214-219, Palma de Mallorca, September 2008.
- V. Bruni, D. Vitulano, Transients detection in the time scale domain, special issue on Lecture Notes in Computer Science, vol. 5099, Proceedings of the 3rd International Conference, ICISP 2008 Cherbourg-Octeville, France, July 1-3, 2008, pp. 254-262.
- V. Bruni, D. Vitulano, A Wavelet based Coding Scheme via Atomic Approximation and Adaptive Sampling of the Lowest Frequency Band, Proceedings of the IEEE-EURASIP 16th European Signal Processing Conference, EUSIPCO 2008, Lausanne, August 2008.

- V. Bruni, G. Ramponi, A. Restrepo, D. Vitulano, Restoration of faded images without noise amplification, Proc. of the IEEE-EURASIP 16th European Signal Processing Conference, EUSIPCO 2008, Lausanne, August 2008.
- V. Bruni, B. Piccoli, D. Vitulano, A Fast Scheme for multiscale signal denoising, Proceedings of the 5th International Conference, ICIAR 2008, Povo de Varzim, Portugal, June 25-27, 2008, special issue on Lecture Notes in Computer Science, vol. 5112, pp. 23-32, June 2008.
- V. Bruni, P. Ferrara, D. Vitulano, Color Scratches Removal using Human Perception, Proceedings of the 5th International Conference, ICIAR 2008, Povo de Varzim, Portugal, June 25-27, 2008, Special issue on Lecture Notes in Computer Science, vol. 5112, pp. 33-42, June 2008.
- V. Bruni, A.J. Crawford, A. Kokaram, D. Vitulano, Perception measures for digital detection and restoration of semi-transparent blotches, Mobile Multimedia/Image Processing, Security, and Applications 2008. Edited by Agaian, Sos S.; Jassim, Sabah A. Proc. of the SPIE, Volume 6982, pp. 69820J-69820J-11 (2008) SPIE Defense Security, Orlando Florida, 2008.
- V. Bruni, D. Vitulano, Shape Analysis for Monitoring Cavities on Historical Buildings, Proceedings of the International Conference on Electronic Imaging and Visual Arts EVA Florence 2008, pp. 132-137, April 2008.
- Restrepo, C. Alvarado, V. Bruni, G. Ramponi, Objective measures for the evaluation of techniques for the virtual restoration of faded sepia photographic prints, Proceedings of International Conference on Electronic Imaging and Visual Arts (EVA Florence 2007), pp. 108-113, Florence 2007.
- L. Appolonia, V. Bruni, R. Cossu, D. Vitulano, Computer-aided monitoring of chemical decay in historical buildings based on color, Proceedings of International Conference on Electronic Imaging and Visual Arts (EVA Florence 2007), pp.164-169, Florence 2007.
- L. Appolonia, V. Bruni, P. Salonia, D. Vitulano, Automatic placement of sensors for cultural heritage monitoring, Proceedings of International Conference on Electronic Imaging and Visual Arts (EVA Florence 2007), pp. 96-101, Florence 2007.
- V. Bruni, A. Crawford, A. Kokaram, D. Vitulano, Digital removal of blotches with variable semi-transparency using visibility laws, Proceedings of International Conference on Brain Vision and Artificial Intelligence BVAI 2007, special issue on Lecture Notes in Computer Science, vol. 4729, pp. 254-263, Napoli, October 2007.
- V. Bruni, A. Crawford, A. Kokaram, D. Vitulano, Multi-scale semi-transparent blotch removal on archived photographs using Bayesian matting techniques and visibility laws, Proceedings of IEEE International Conference on Image Processing 2007 (ICIP 07), vol. 1, pp. 561-564, S. Antonio, Texas, September 2007.
- V. Bruni, D. De Canditiis, D. Vitulano, Phase based estimation for noisy sequences, Proceedings of IEEE International Conference on Systems, Signals and Image Processing IEEE-IWSSIP 2007, Maribor, Slovenia, pp. 381-384, June 2007.
- V. Bruni, A. Crawford, D. Vitulano, Visibility based Detection of Complicated Objects: A Case Study, Proceedings of the IET 3rd European Conference on Visual Media Production (CVMP) 2006, London, pp. 55-64, November 2006.

- G. Ramponi, V. Bruni, Virtual Restoration of Faded Photographic Prints, Proceedings of IEEE-EURASIP 14th European Signal Processing Conference (EUSIPCO06), Florence - Italy, September 2006.
- E. Ardizzone, V. Bruni, V. Cappellini, A. De Polo, H. Dindo, U. Maniscalco, S. Minelli, L. Moltedo, A. Piva, G. Ramponi, G. Sajeve, D. Vitulano, A knowledge based model for digital restoration and enhancement of images concerning archaeological and monumental heritage of the mediterranean coast, Proc. of the Int. Conference on Electronic Imaging and Visual Arts (EVA Florence 2006), pp. 120-125, Firenze 2006.
- V. Bruni, D. De Canditiis, D. Vitulano, Fast Motion Estimation using Spatio-Temporal Filtering, Proceedings of International Conference on Image Analysis and Recognition ICIAR 2006, Special issue on Lecture Notes in Computer Science, vol. 4141, pp. 755-766.
- V. Bruni, B. Piccoli, D. Vitulano, Signal and Image Denoising via Scale-Space Atoms, in Proceedings of IEEE-EURASIP 14th European Signal Processing Conference (EUSIPCO06), Florence - Italy, September 2006.
- V. Bruni, A. Crawford, F. Stanco, D. Vitulano, Visibility based Detection and Removal of Semi-Transparent Blotches on Archived Documents, in Proceedings of International Conference on Computer Vision Theory and Application (VISAPP06), Portugal, February 2006, Vol. 1, pp. 64-71.
- V. Bruni, B. Piccoli, D. Vitulano, Wavelet Time-scale Dependencies for Signal and Image Compression, Proc. of IEEE Int. Symposium on Image and Signal Processing and Analysis 2005 (ISPA05), pp. 105-110, 2005.
- V. Bruni, D. Vitulano, Wavelet Atoms Approximation for Simultaneous Image Compression and Denoising, Proceedings of IEEE International Conference on Image Processing 2005 (ICIP 05), vol. 3, pp. 333-336, Genoa-Italy, 2005.
- V. Bruni, A. Kokaram, D. Vitulano, Fast Removal of Line Scratches in Old Movies, Proceedings of IEEE International Conference on Pattern Recognition ICPR 2004, vol. 4, pp. 827-830, Cambridge, 2004.
- V. Bruni, D. Vitulano, Image De-noising via Overlapping Atoms, Proceedings of Int. Conference on Image Analysis and Recognition ICIAR 2004, Porto, Portugal, Lecture Notes in Computer Science, Vol. 3211, pp. 179-186, Springer 2004.
- V. Bruni, D. Vitulano, A Wiener Filter Improvement Combining Wavelet Domains, Proceedings of IAPR Conference ICIAP 2003, pp. 518-523, Mantova - ITALY 2003.
- V. Bruni, A. Kokaram, D. Vitulano, Line Scratches Detection and Restoration via Light Diffraction, Proceedings of IEEE International Symposium on Image and Signal Processing and Analysis ISPA 2003, vol.1, pp. 5-10, Rome - ITALY 2003.
- V. Bruni, D. Vitulano, Signal Denoising via Overlapping Atoms in a Wavelet Domain, Proceedings of IEEE Int.I Symposium on Image and Signal Processing and Analysis ISPA 2003, vol.1, Rome - ITALY 2003.
- V. Bruni, D. Vitulano, Scratch Detection via Underdamped Harmonic Motion, Proceedings of IEEE International Conference on Pattern Recognition ICPR 2002, Quebec City - CANADA, Vol. 16, No. 3, pp. 887-890, 2002.
-