

## Maria Grazia Albanesi – Publications

### International Journals

1. Silvia Assini, Maria Grazia Albanesi, Matteo Barcella: “Assessing the conservation value of forests: a new multiscale approach for the Forest Status Quality Indicator and its application to a case study in Northern Italy”, submitted to *i\_Forest*, Biogeosciences and Forestry in February 2018.
2. Albanesi, M.G., Amadeo, R., Bertoluzza, S., Maggi S.: “A New Class of Wavelet-Based Metrics for Image Similarity Assessment”, *Journal of Mathematical Imaging and Vision*, (2018), Vol. 60, n. 1, pp. 109-127, Springer Ed., <https://doi.org/10.1007/s10851-017-0745-1>
3. Silvia Assini, Maria Grazia Albanesi: “The Use of the Forest Status Quality Indicator in Planning Policies for Biodiversity Conservation. Ten Case Studies on Forest Plantations in North Italy”, *International Journal On Advances in Life Sciences*, v 9 n 1&2, pp. 21-32 2017. **Available on line.**
4. Silvia Assini, Maria Grazia Albanesi: “A New Biodiversity Composite Indicator Based on Anthroptropy and Forest Quality Assessment. Framework, Theory, and Case Studies of Italian Territory”, *International Journal On Advances in Life Sciences*, v 7 n 3&4, pp. 177-194, Dec. 2015, ISSN 1942-2660, Copyright (©) IARIA, Open Access Online ThinkMind™ Digital Library **Available on line.**
5. Maria Grazia Albanesi, Riccardo Amadeo: “A New Categorization of Image Quality Metrics Based on a Model of Human Quality Perception”, *International Journal of Computer, Electrical, Automation, Control and Information Engineering*, WASET Ed. 8(6), 964 - 972. **Available on line.**
6. Maria Grazia Albanesi, Riccardo Amadeo, Giovanni Vecchio: “Research on Efficacy of Using Social Networks in Academic Teaching. Metrics, Experiments and Results”, *European Journal of Sustainable Development*, Vol. 3, N. 3 pp. 25-34, 2014. ISSN: 2239-5938, doi:10.14207/ejsd.2014.v3n3p25. **Available on line.**
7. Maria Grazia Albanesi, Roberto Albanesi: “A Decision-making Support System for Land Use Estimation Based on a New Anthroptropy Predictive Model for Environmental Preservation – Theory, Model and Web-based Implementation”, *International Journal On Advances in Intelligent Systems*, v 7 n 1&2, pp. 85-102, ISBN-1942-2679, 2014. Open Access Online ThinkMind™ Digital Library **Available in line.**
8. M. G. Albanesi, R. Amadeo: “Impact of Fixation Time on Subjective Video Quality Metric: a New Proposal for Lossy Compression Impairment Assessment”. *World Academy of Science, Engineering, and Technology*, Vol. 59, pp. 1604-1611, 2011.
9. Marco Aguzzi, Maria Grazia Albanesi: “A novel approach to sparse histogram image lossless compression using JPEG2000”, *Electronic Letters on Computer Vision and Image Analysis (ELCVIA)*, 5 (4), pp. 24-46, 2006.
10. Marco Aguzzi, Maria Grazia Albanesi, Marco Martelli: “A new algorithm for the embedding of a prediction mechanism into the JPEG 2000 coding chain”, *Pattern Recognition*, Volume 39/8, pp. 1492-1508, 2006.

11. Maria Grazia Albanesi, F. Guerrini: "An HVS – Based Adaptive Coder for Perceptually Lossy Image Compression", *Pattern Recognition*, Vol 36/4, pp. 997 – 1007, 2003.
12. Maria Grazia Albanesi, Marco Ferretti, Davide Rizzo: "Benchmarking Hough Transform Architectures for Real Time", *Journal of Real Time Imaging*, N. 6, pp. 155-172, 2000.
13. M. G. Albanesi, M. Ferretti, A. Giancane: "Robust Hierarchical Multiresolution Indexing based on Texture Features", *Special Issue on Multimedia Databases and Image Communication*, *Journal of Visual Languages and Computing*, Academic Press, Vol. 11, n. 4, pp. 383-404, 2000.
14. Maria Grazia Albanesi, Anna Antola, Marco Ferretti, Roberto Negrini: "A Chip-Set for the Generalized Hough Transform", *Journal of VLSI Signal Processing*, pp. 129-138, 1996.
15. Maria Grazia Albanesi, Silvia Bertoluzza, Marco Ferretti: "Human Vision model and Wavelets for multi-resolution image coding", *Vistas in Astronomy*, Vol. 40, N. 4, pp. 579-585, 1996.
16. M. Albanesi, M. Ferretti: "Systolic Merging and Ranking of Votes for the Generalized Hough Transform", *International Journal of Pattern Recognition and Artificial Intelligence*, in Special Issue on VLSI and Parallel Computing for Computer Vision and AI, Vol. 9, n. 2, 1995, pp. 315-341. Also appeared as book chapter in: *VLSI & Parallel Computing for Pattern Recognition & Artificial Intelligence*, Editore N. Ranganathan, World Scientific, pp. 143-169, 1995.
17. M.G. Albanesi, I. De Lotto, L. Carrioli: "Image Compression by the Wavelet Decomposition", *European Transactions on Telecommunications and Related Technologies (AEI Ed.)*, Vol. 3, N. 3, pp. 45-54, 1992.
18. M. G. Albanesi, M. Ferretti: "A High Speed HAAR Transform Implementation", *Journal of Circuits, Systems and Computers*, in Special Issue on VLSI Architectures for DSP Applications, Vol. 2, N.3, pp. 207-226, 1992.
19. M. G. Albanesi, M. Ferretti: "Shape detection with limited memory", *Pattern Recognition*, Vol. 24, N. 12, pp. 1153-1166, 1991.
20. Maria Grazia Albanesi, Ivo De Lotto, Luigi Carrioli: "Image Compression Experiments", *Alta Frequenza – International Journal in Telecommunications and Related Technologies (AEI ed.)*, vol. LVIII N. 3, pp. 301-305, 1989.
21. Luigi Carrioli, Maria Grazia Albanesi: "Multigray Image Compression Based on the Human Eye Transfer Function", *Alta Frequenza – International Journal in Telecommunications and Related Technologies (AEI Ed.)*, vol. LVII N. 5, pp. 273-284, 1988.

### **International Conference Proceedings**

22. Albanesi, M.G., Amadeo, R.: "A Web-based Collaborative Tool for Land Use Computation on Satellite Images", *Proceedings of the Sixth International Conference on Building and Exploring Web Based Environments (Web2018)*, May 2018, Nice (France), pp. 24-27, Copyright (©) IARIA Ed. (best paper award). Open Access Online ThinkMind™ Digital Library **Available online**.

23. Albanesi, M.G., Amadeo, R., Bertoluzza, S.,: "A New Wavelet Based Metric for Color Image Similarity Assessment", *presented at SIAM Conference on Imaging Science, Bologna (Italy), June 2018.*
24. Silvia Assini, Maria Grazia Albanesi: "A New Improvement of the Naturalistic Indicator of Forest Quality. An Italian Case Study", Proceedings of the Seventh International Conference on Bioenvironment, Biodiversity and Renewable Energies (BIONATURE 2016), Lisbon (Portugal), 26-20 June 2016, pp. 7-10, Copyright (©) IARIA, 2016, ISBN 978-1-61208-489-3 (best paper award). Open Access Online ThinkMind™ Digital Library **Available online.**
25. Silvia Assini, Maria Grazia Albanesi: "A Naturalistic Indicator of the Forest Quality and its Relationship with the Land Use Anthropentropy Factor", Proceedings of the Sixth International Conference on Bioenvironment, Biodiversity and Renewable Energies (BIONATURE 2015), Rome (Italy), 24-29 May 2015, pp. 27-33, Copyright (©) IARIA, 2015, ISBN 978-1-61208-410-7 (best paper award). Open Access Online ThinkMind™ Digital Library **Available online.**
26. Albanesi M.G., Amadeo R. A New Algorithm for Objective Video Quality Assessment on Eye Tracking Data. Proceedings of the 9th International Conference on Computer Vision Theory and Applications (VISAPP, Lisbon, Portugal) SCITEPRESS, pp. 462- 469, vol.1, 2014.
27. Maria Grazia Albanesi, Roberto Albanesi: "A New Approach Based on Computer Vision and Collaborative Social Networking for Environmental Preservation: Theory, Tools and Results of Italian ACI Project", Proceedings of The Eighth International Multi-Conference on Computing in the Global Information Technology, Nice (France), 21-26 July 2013, pp. 16-21, Copyright (©) IARIA, 2013, ISBN 978-1-61208-283-7 (best paper award). Open Access Online ThinkMind™ Digital Library: **available online.**
28. Albanesi Maria Grazia, Gatti Riccardo, Porta Marco, Ravarelli Alice: "Towards Semi-Automatic Usability Analysis through Eye Tracking. Proceedings of the 12th International Conference on Computer Systems and Technologies" (CompSysTech 2011) ACM Press, 135- 141, In:12th International Conference on Computer Systems and Technologies (CompSysTech 2011). June 16-17, 2011, Vienna, Austria.
29. M.G. Albanesi, S. Panzarasa, B. Cattani, S. Dezza, M. Maggi, S. Quaglini: "Segmentation Techniques for Automatic Region Extraction: An Application to Aphasia Rehabilitation", Proceedings of AIME, 11th International Conference on Artificial Intelligence in Medicine, (Amsterdam, The Netherlands), R. Bellazzi, A. Abu-Hanna, and J. Hunter Eds., LNAI 4594, pp. 367-377, 2007.
30. Marco Aguzzi, Maria Grazia Albanesi, Marco Ferretti, Mauro Garlaschelli: "Query translation based on equivalence classes for heterogeneous multimedia repositories using XML and semantic annotation", Proceedings of ICIAP 2007, 14th International Conference on Image Analysis and Processing, (Modena, Italy), pp. 813-818, 2007.
31. Marco Aguzzi, Maria Grazia Albanesi, Marco Ferretti: "A novel CBIR system based on JPEG 2000 wavelet transform scheme." Proceedings of the IEEE International Workshop on Computer Architecture for Machine Perception and Sensing (CAMPS06, Lafayette, Louisiana , USA), pp. 165-170, 2006.
32. Marco Aguzzi, Maria Grazia Albanesi, Marco Ferretti: "A web service architecture for image compression, indexing, annotation, and XML metadata validation", Proceedings of

the IEEE International Workshop on Computer Architecture for Machine Perception and Sensing (CAMPS06 Lafayette, Louisiana, USA), pp. 213-217, 2006.

33. Marco Aguzzi, Maria Grazia Albanesi, Alessandro Brambilla: "Managing Web Service standards and technologies: a comprehensive graphical composer." Proceedings of the IEEE International Workshop on Computer Architecture for Machine Perception and Sensing (CAMPS06 Lafayette, Louisiana, USA), pp. 113-118, 2006.
34. Marco Aguzzi, Maria Grazia Albanesi: "A novel algorithm for biometric user authentication based on multiresolution image analysis and feature extraction", Proc. of IADAT International Conference on Multimedia, Image Processing, and Computer Vision – micv2005, (Madrid, Spain), pp. 88-92, 2005.
35. Marco Aguzzi, Maria Grazia Albanesi, Giovanni Lanfranchi: "Blind source separation applied to mixed audio tracks of musical sources experiments, interactive environment, and performance evaluation", Proc. of IADAT International Conference on Multimedia, Image Processing, and Computer Vision – micv2005, (Madrid, Spain), pp. 103-107, 2005.
36. Marco Aguzzi, Maria Grazia Albanesi: "Extracting metadata from JPEG2000 compressed images using Web Services", Proc. of IEEE International Workshop on Computer Architecture and Machine Perception – CAMP05, (Palermo, Italy), pp. 315-320, 2005.
37. Marco Aguzzi, Maria Grazia Albanesi, Marco Ferretti: "A novel watermarking algorithm for image authentication robustness against common attacks and JPEG2000 compression", Proc. of IEEE International Conference on Image Analysis and Processing, ICIAP05, (Cagliari, Italy), pp. 559-567, 2005.
38. Marco Aguzzi, Maria Grazia Albanesi: "A Framework for Middleware Integration for Image Processing Software Using Web Services", Proc. of International Business Information Management Conference – IBIMA 2005, (Lisbon, Portugal), pp. 461-464, 2005.
39. M. G. Albanesi, E. Falchero, F. Guerrini, M. Ferretti: "Framework for querying heterogeneous images repository", Proc. of Internet Imaging V Conference, (San Jose, CA, USA), pp. 154-158, 2004.
40. Marco Aguzzi, Maria Grazia Albanesi: "A client-server framework for e-learning and examination", Proc. of IADIS International WWW/Internet Conference, (Madrid, Spain), pp. 788-793, 2004.
41. Marco Aguzzi, Maria Grazia Albanesi: "Fully compatible JPEG2000 algorithm for image retrieval in compressed domain", Proc. of IASTED International Conference on Visualization, Imaging, and Image Processing – VIIP 04, (Marbella, Spain), pp. 385-390, 2004.
42. M. G. Albanesi, M. Ferretti, A. Dell'Olio, M. De Ponti: "Effectiveness of a VLIW Architecture in a Data Parallel Image Application", Proc. of 6th International Conference on Computer Architecture for Machine Perception, CAMP2003, (New Orleans, Florida, USA), IEEE CD-ROM, ISBN 0-7803-7971-3, 2003.
43. Maria Grazia Albanesi, Marco Ferretti, Federico Guerrini, "Host-Interference Rejecting Watermarking for Robust Image Authentication", Proc. of Internet Imaging IV Conference at IS&T/SPIE's Electronic Imaging 2003, (San Jose, California, USA), pp. 28-38, 2003.

44. Maria Grazia Albanesi , Federico Guerrini , “Image Authentication and Recovery Using Error Correcting Codes”, Proc. of ACM Workshop on Multimedia and Security, (Juan-Les-Pins, France), pp. 23-26, 2002.
45. Maria Grazia Albanesi , Emanuele Benzi , Marco Ferretti: “An XML General Framework for Image Annotation, Storing and Retrieval”, Proc. of MVA2002 (Tokyo , Japan), pp. 116-119, 2002.
46. M. G. Albanesi , S. Bandelli , M. Ferretti: “Quantitative Assessment of Qualitative Color Perception in Image Database Retrieval”, Proc. of 11th, International Conference of Image Analysis and Processing, pp. 410-415, 2001.
47. M. G. Albanesi , M. Ferretti, F. Guerrini: “A Taxonomy for Image Authentication Techniques and its Application to the Current State of the Art”, Proc. of 11th International Conference of Image Analysis and Processing, pp. 535-540, 2001.
48. M. G. Albanesi , M. Ferretti, A. Giancane: “Content Based Retrieval for Compressed Image Database”, Proc. of ISAS SCI2000 (Orlando , Florida , USA), Vol V, Image, Acoustic, Speech and Signal Processing, Part I, pp. 1-5, 2000.
49. M. G. Albanesi , M. Ferretti, F. Guerrini: “Adaptive Image Compression Based on Regions of Interest and a Modified Contrast Sensitivity Function”, Proc. of 15th International Conference of Pattern Recognition, (Barcellona , Spain), vol. 3, pp. 219-222, 2000.
50. M. G. Albanesi , A. Giancane: “Fast Retrieval on Compressed Image for Internet Applications”, Proc. of Computer Architecture for Machine Perception, CAMP 2000 (Padova, Italy), V. Cantoni e C. Guerra Eds., pp. 136-141, 2000.
51. M. G. Albanesi , M. Ferretti, A. Giancane: “An Environment to Test Progressive Refinement of Indexing for Content-Based Image Retrieval”, Proc. of MVA2000 (Tokyo , Japan), pp. 168-172, 2000.
52. Maria Grazia Albanesi , Marco Ferretti , Alessandro Giancane: “Time Frequency Decomposition for Analysis and Retrieval of 1-D Signals”, IEEE Proc. of International Conference on Multimedia Computing and Systems 1999, (Firenze , Italy) pp. 974 – 978, 1999.
53. Maria Grazia Albanesi , Marco Ferretti , Alessandro Giancane: “A Visual Method for fuzzy Data Analysis and Decision Support”, Proc. of SCI’99 and ISAS’99 (5th International Conference on Information Systems – Analysis and Synthesis, Olando, Florida, USA), Vol. 2 – Information System Development, pp. 134-138, 1999.
54. Maria Grazia Albanesi , Marco Ferretti , Alessandro Giancane: “A Compact Wavelet Index for Retrieval in Image Database”, Proc. of 10th International Conference on Image Analysis and Processing, (Venezia , Italy), pp. 927 – 932, 1999.
55. Maria Grazia Albanesi , Luca Lombardi: “Wavelets for Shape Recognition in Image Retrieval: a case study”. Proc. of Workshop on Image and Video Content-Based Retrieval (Milano , Italy), pp.81 – 88, 1998.
56. Maria Grazia Albanesi: “Thresholding Wavelets for Image Compression”, Proc. of Compression and Complexity of SEQUENCES 1997 (Positano , Italy), pp. 374 – 389, 1997.
57. Maria Grazia Albanesi: “Wavelets and Human Visual Perception in Image Compression”, Proc. del 13th International Conference on Pattern Recognition (Wien , Austria), pp. 859-863, 1996.

58. Marco Ferretti , Maria Grazia Albanesi: "Architectures for the Hough Transform: a Survey", Proc. of IAPR Workshop on Machine Vision Applications, MVA'96, (Tokyo , Japan), pp. 542-551. (invited paper)
59. D. Todorova, M.G. Albanesi , M. Ferretti: "Implementation of PVM for bi-orthogonal Wavelet Transform of Grey Scale Images", Proc. di ADCOMP ' 96, Fourth Int. Conf. on Advanced Computing, (Taj Residency, Bangalore , India), 1996.
60. M. G. Albanesi , S. Bertoluzza, "Human Vision Model and Wavelets for High Quality Image Compression", Proc. of Fifth International Conference on Image Processing and Its Applications (Edinburgh , Great Britain), pp. 311-315, 1995.
61. M. G. Albanesi , M. Ferretti, S. Leoni: "Mapping Algorithm into ASIC: a Multi-resolution Algorithm for Image Compression", Proc. of Data Compression Conference 1994 (Snowbird , Utah , USA), p. 496, 1994.
62. M. G. Albanesi , V. Cantoni, M. Ferretti, F. Mainieri, "A VLSI 128-Processor Chip for Multiresolution Image Processing", Proc. of Conference on Massively Parallel Computing Systems (MPCS), pp. 296-307, 1994.
63. Silvia Bertoluzza, Maria Grazia Albanesi: "On the coupling of the Human Visual system and Wavelet transform for Image Compression", Proc. of SPIE Mathematical Imaging: Wavelet Applications in Signal and Image Processing II, (San Diego , Cal , USA), pp. 389-397, 1994. This work has been presented also at the Workshop on "Common Methodologies for Image Synthesis and Analysis", Rome , Italy , Decemeber 5-7, 1994, CNR-IAC (invited paper).
64. M. G. Albanesi , M. Ferretti, S. Leoni: "A Hierarchical Compression Engine", Proc. of 12 ICPR (International Conference on Pattern Recognition), Jerusalem , Israel , Vol. III (D) pp. 391-394, 1994.
65. M. Albanesi , M. Ferretti: "Vote Merging and Ranking in a Systolic Queue", Proc. of Workshop on Computer Architecture for Machine Perception , (New Orleans , Louisiana , USA), pp. 162-171, 1993.
66. M. G. Albanesi , M. Ferretti: "An Architecture for Image Compression through Wavelet Transform", Proc. of 11th International Conference on Pattern Recognition, (The Hague , The Netherlands), Vol. D, pp. 155-158, 1992.
67. Antola, R. Negrini, M. G. Albanesi , M. Ferretti: "A Chip Set for the Hough Transform", VLSI Signal Processing V, K. Yao e R. Jain Eds, Proc. of IEEE Workshop on VLSI Signal Processing, (Napa California, USA), pp. 129-138, 1992.
68. Maria Grazia Albanesi: "Time Complexity Evaluation of Algorithm for the Hough Transform on Mesh-Connected Computers", Proc. of the 5th Annual European Computer Conference, (Bologna , Italy), pp. 253-257, 1991.
69. M.G. Albanesi , D. Dotti, G. Danese, O. Villani: "Automatic Synthesis of Digital Circuits from Flow-charts", Proc. of 33rd Midwest Symposium on Circuits and Systems, (Calgary , Alberta , Canada), pp. 1000-1012, 1991.
70. M. Grazia Albanesi , M. Ferretti: "VLSI Architecture for Object Recognition", Proc. of IEEE International Conference on Computer Systems and Software Engineering, (Tel-Aviv , Israel), pp. 562-563, 1990.

71. M. G. Albanesi, M. Ferretti: "A Space Saving Approach to the Hough Transform". Proc. of 10th International Conference on Pattern Recognition (Atlantic City, New Jersey, USA), vol II, pp. 472-475, 1990.
72. M. G. Albanesi, M. Ferretti, R Megazzini: "Systolic Votes Collection for the Generalized Hough Transform". Proc. of Eusipco-90, Vth European Signal Processing Conference, Barcellona, Spagna) vol III, pp. 1567-1570, 1990.
73. M. Grazia Albanesi , M. Ferretti: "SCPC1: Silicon Compiler Pyramidal Chip for Image Processing", Proc. of 1989 International Symposium on Circuit and Systems, (Portland , Oregon , USA), vol. 1, pp. 191-195, 1989.
74. M. G. Albanesi , M. Calzarossa, L. Massari, S. Regaglia: "Benchmark Studies in a Scientific Computing Environment", Proc. of Fourth International Symposium on Computer and Information Sciences (ISCIS IV, Cesme, Turkey, 1989), vol. II pp. 1287-1296, 1989.

### **International Book Chapters**

75. M. G. Albanesi , L. Lombardi: "Wavelets for Multiresolution Shape Recognition", Alberto Del Bimbo Ed., pp. 276 – 283, 1997.
76. M. G. Albanesi , M. Ferretti, L. Zangrandi: "A Pyramidal Approach to Convex Hull and filling Algorithms", Image Analysis and Processing, C. Braccini, L. De Floriani, G. Vernazza Eds., Springer, pp. 139-144, 1995.
77. M. G. Albanesi , M. Ferretti, D. Todorova: "Object Recognition on the CM- 2" , Progress in Image Analysis and Processing III, S. Impedovo Ed., World Scientific, pp. 713-720, 1994.
78. M. G. Albanesi , L. Breveglieri, M. Vivaldelli, F. Salieri: "Architecture for edge extraction Modules for the Hough Transform", in Progress in Image Analysis and Processing II, V. Cantoni, M. Ferretti, S. Levialedi, R. Negrini, R. Stefanelli Eds., World Scientific, pp. 585-589, 1992.
79. M. G. Albanesi , V. Cantoni, M. Ferretti, L. Lombardi: "A Vision System for Stereotaxic Neurosurgery", in Progress in Image Analysis and Processing II, V. Cantoni, M. Ferretti, S. Levialedi, R. Negrini, R. Stefanelli Eds., World Scientific, pp. 616-623, 1992.
80. M. G. Albanesi , M. Ferretti: "Towards Real-time Haar Transform: from Pyramids to Pipelines", in Computer Architecture for Machine Perception, B. Zavidovique, P.L. Wendel Eds. pp. 45-55, 1991.
81. M.G. Albanesi , V. Cantoni, U. Cei, M. Ferretti, M. Mosconi: "Embedding pyramids into mesh arrays" in Reconfigurable SIMD Parallel Processors, Li e Stout Eds., Prentice-Hall, pp. 123-140, 1991.
82. M. Grazia Albanesi , M. Ferretti: "Geometry Constraint and limited memory for the Generalized Hough Transform", in Progress in Image Analysis and Processing, V. Cantoni, L. P. Cordella, S. Levialedi, G. Sanniti di Baja Eds., World Scientific, pp. 658-665, 1990.
83. Maria Grazia Albanesi: "An Example of Integrated Circuit Design Based on Silicon Compilation: the SCPC1 (Silicon Compiler Pyramidal Chip)", Recent Issues in Pattern Analysis and Recognition, in Lecture Notes in Computer Science 399, V. Cantoni, R. Creutzburg, S. Levialedi, G. Wolf Eds., Springer-Verlag, pp. 91-104 1989.

### **National Journal and Conferences**

84. Albanesi R., Albanesi M.G., di Gennaro A. L'informatica e i social network al servizio dell'ecologia: il progetto ACI. ECO, pp. 26 – 29, Vol. VI, 2013.
85. Marco Aguzzi, Maria Grazia Albanesi, Marco Ferretti: "Image indexing and annotation in dermatology", Proceedings of Conferenza Italiana sui Sistemi Intelligenti (CISI06), (Ancona, Italy), available on CD-ROM, 2006.
86. Marco Aguzzi, Maria Grazia Albanesi, Marco Ferretti: "Compressed domain indexing and retrieval: algorithm comparison and evaluation." Proceedings della Conferenza Italiana sui Sistemi Intelligenti (CISI06), (Ancona, Italy), available on CD-ROM, 2006.
87. Marco Aguzzi, Maria Grazia Albanesi , Marco Ferretti , Mauro Garlaschelli: "A novel approach to heterogeneous database querying using XML", GIRPR Conference, (Perugia, Italy), available on CD-ROM, 2004.
88. Aguzzi Marco , Albanesi Maria Grazia: "A novel approach to storing and retrieval of JPEG2000 compressed images", GIRPR Conference, (Perugia , Italy), available on CD-ROM, 2004.
89. Maria Grazia Albanesi: "Wavelet for retrieval of audio signals in noisy environment", Proc. of SIMAI '98 (IV Congresso Nazionale della Societa' Italiana di Matematica Applicata e Industriale) Minisimposio Wavelet ed analisi multiscale, pp. 220 – 222, 1998.
90. Maria Grazia Albanesi: "Multiresolution in Image Compression: Wavelets and visual perception", Proc. of SIMAI '96 (III Congresso Nazionale della Societa' Italiana di Matematica Applicata e Industriale) Minisimposio Tecniche multirisoluzione in elaborazione di segnali, pp. 553 – 554, 1996 (invited paper).
91. M. G. Albanesi , M. Ferretti, D. Todorova: "Mapping Algorithms for object recognition on CM- 2" , Acts of the CM User Meeting, (Parma , Italy), pp. 126-133, 1993.
92. M. G. Albanesi, L. Lombardi, "A computer-aided system for stereotaxic neurosurgery", Proc. Congresso Annuale A.I.C.A. (Siena, Italy), pp. 991-1005, 1991.

### **Educational Books & Monographs**

93. Maria Grazia Albanesi: "Donne di corsa", Ed. Thea s.r.l., Pavia, 2013 (edizione e-book), 2007 (edizione cartacea).
94. Maria Grazia Albanesi, Roberto Albanesi: "Guida al lavoro migliore" Ed. Thea s.r.l., Pavia, 2013, (edizione e-book), 2010 (edizione cartacea).
95. Marco Aguzzi, Maria Grazia Albanesi: "Integrating JPEG2000 in Matlab Applications: a Middleware Solution for Medical Software", Technical Report n. RIDIS 139-05, 2005.
96. Marco Aguzzi, Maria Grazia Albanesi , Marco Ferretti: "A software for aiding medical personnel in image compression and annotation of skin lesions for melanoma diagnosis", Technical Report n. RIDIS 138-05, 2005.
97. Maria Grazia Albanesi: "Compressione frattale di immagini", Technical Report n. RIDIS 137-03, 2003.



98. Maria Grazia Albanesi: "Sistemi di Autenticazione Biometrica", Technical Report n. RIDIS 130-01, 2001.
99. Maria Grazia Albanesi: "I firewall per la sicurezza in rete", Technical Report n. RIDIS 131-01, 2001.
100. Maria Grazia Albanesi: "Il formato MPEG 4 (Structured Audio)", Technical Report n. RIDIS 132-01, 2001.
101. Maria Grazia Albanesi: "La criminalita' informatica", Technical Report n. RIDIS 133-01, 2001.
102. M.G. Albanesi et al.: "Fourth report on the activities of the research group on the Wavelet Theory and Applications", Technical Report n. RIDIS 105-96, 1996.
103. Maria Grazia Albanesi: "Experiments on parallelization of Wavelets", Technical Report n. RIDIS 107-96, 1996.
104. M.G. Albanesi et al.: "Third report on the activities of the research group on the Wavelet Theory and Applications", Technical Report n. RIDIS 89-94, 1994.
105. Maria Grazia Albanesi , Anna Antola, Marco Ferretti , Roberto Negrini: "A Chip-Set for Image Processing and for the Generalized Hough Transform", Technical Report n. RIDIS 79-93, 1993.
106. M.G. Albanesi et al.: "Second report on the activities of the research group on the Wavelet Theory and Applications", Technical Report n. RIDIS 80-93, 1993.
107. M.G. Albanesi , V. Cantoni, M. Ferretti, F. Mainieri: "Progettazione VLSI di un multiprocessore a piramide virtuale: il chip PAPIA2", Technical Report n. RIDIS 81-93, 1993, Pavia.
108. M.G. Albanesi , M. Ferretti, S. Leoni: "WIC: Wavelet for Image Compression chip", Technical Report n. RIDIS 83-93, 1993.
109. M.G. Albanesi et al.: "Report on the activities of the research group on the Wavelet Theory and Applications", Technical Report n. RIDIS 65-92, 1992.
110. Maria Grazia Albanesi: "Computational complexity of algorithms for the Hough Transform on mesh connected computers", Technical Report n. RIDIS 45-90, 1990.
111. M. G. Albanesi , O. D'Antona: "A Factorial Number System", Technical Report n. RIDIS 36-89, 1989.
112. Maria Grazia Albanesi: "Architectures for the Hough Transform: a survey", Technical Report n. RIDIS 39/90, 1990.
113. Maria Grazia Albanesi: "Manuale di informatica", Capitolo 5 (pp. 5/1-5/64) e Capitolo 8 (pp. 8/1-8/67), Tecniche Nuove, Milano, 1989.
114. M.G. Albanesi: "SCPC1: Silicon Compiler Pyramidal Chip", Technical Report n. RIDIS 29-88, 1988.
115. Maria Grazia Albanesi: "Plotspace: un'interfaccia grafica per Spice", Technical Report n. RIDIS 30-88, 1988.