

CURRICULUM VITAE

Massimo Tistarelli

January 2018

Birth date and place:

Current position: Full Professor in Computer Science (with tenure)

H-index (Google Scholar): 31

I10-index: 72

- Associate Editor for the IEEE Transactions on Pattern Analysis and Machine Intelligence
- Associate Editor for the Image and Vision Computing journal
- Associate Editor of the IAPR Pattern Recognition Letters journal
- Associate Editor of the IAPR Pattern Recognition journal
- Associate Editor of the IET Biometrics journal
- Senior member of IEEE
- Fellow member of the International Association for Pattern Recognition (IAPR)
- First Vice President of the International Association for Pattern Recognition (IAPR)
- Since 2005 Full Professor (with tenure) at the Department of Social Sciences and Information Technology, University of Sassari.

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- 1989 “Visiting Scientist” at Thinking Machines Co. and Massachusetts Institute of Technology, Cambridge, Massachusetts.
 - 1990 “Research Associate” at the Department of Computer Science, Trinity College, Dublin, Ireland.
 - from 1991 to 2001 Assistant Professor at the Department of Communication, Computer and Systems Science, Faculty of Engineering, University of Genova.
 - 1991 IEEE Computer Society “Outstanding Paper Award” for the paper *Dynamic Stereo in Visual Navigation*, presented at *Computer Vision and Pattern Recognition - CVPR '91*.
 - 1994 “Visiting Professor” at the Department of Computer Science, Trinity College, Dublin, Ireland.
 - 1995-96 Lecturer for the course “Artificial and Natural Intelligent Systems”, Faculty of Engineering, University of Genova.
 - 1995-96 Lecturer for the course “Biomedical Physics and Electronics I e II”, at the Neurophysiopathology School, Faculty of Medicine, University of Genova.
 - 1995-1998 Coordinator for the European project ESPRIT-LTR 21894 VIRSBS.
 - 1998 Lecturer for the course “Bioimages”, Faculty of Engineering, University of Genova.
 - 1999 Lecturer for the course “Computer Science”, Faculty of Science, University of Genova.

- 1999-2003 Lecturer for the course “Medical Informatics II”, Faculty of Engineering, University of Genova.
- 2000-2003 Lecturer for the course “Fundamentals of Computer Science”, Faculty of Human Sciences, University of Genova.
- 1998 Chairman for the International Workshop “Advances on Facial Image Analysis and Recognition Technology” at ECCV’98.
- 2000 Guest editor for Image and Vision Computing journal.
- 2001-2004 Associate Professor at the Faculty of Architecture, University of Sassari.
- Since 2001 Lecturer for the course “Fundamentals of Computer Science” and “Computer Graphics”, at the Faculty of Architecture, University of Sassari.
- 2002 Chairman for the International Workshop “Biometric Authentication” at ECCV’02.
- Since 2003 Director of the International Summer School for Advanced Studies on Biometrics (endorsed by IEEE and IAPR) - <http://biometrics.uniss.it>.
- 2003 Guest editor for IEEE Transactions on Circuits and Systems for Video Technology, special issue on “Image- and Video-Based Biometrics”.
- 2003-2007 Member of the Steering Board of the European Network of Excellence “Biosecure”.
- Since 2006 member of the Executive Board for the IAPR Technical Committee 4 on Biometrics.
- 2007 Chairman for the 5th IEEE International Workshop “Automatic Identification Advanced Technologies”.
- 2008 Track co-Chair for track 7 “Biometrics” at the 19th IAPR International Conference on Pattern Recognition.
- 2008-2010 Vice-Chair of the Executive Board for the IAPR Technical Committee 4 on Biometrics.
- Since 2008 member of the IEEE Certified Biometrics Professional (CBP) Examination Committee.
- 2009 General Chair for the 3rd IAPR/IEEE International Conference on Biometrics.
- 2010 Area Chair for the 23rd IEEE International Conference on Computer Vision and Pattern Recognition.
- Since 2010 Chair of the IEEE Italian chapter of the Biometrics Council.
- 2010-2014 Chair of the IAPR Technical Committee on Biometrics – TC4.
- 2011-2014 Scientific Director of the Italian Platform for Biometric Technologies (established from the Italian Ministry of the University and Scientific Research).
- 2012-2016 Chair of the European Union COST Action IC1106 “Integrating Biometrics and Forensics for the Digital Age”.
- 2014-2018 first Vice-President of the IAPR.
- 2015 General Chair for the 8th IAPR/IEEE International Conference on Biometrics.
- 2017-2021 Vice-Chair of the European Union COST Action CA16101 “MULTI-modal Imaging of FOREnsic SciEnce Evidence - tools for Forensic Science”.

Massimo Tistarelli was born on November 11, 1962 in Genoa, Italy.

He received a degree (summa cum Laude) in Electronic Engineering from the University of Genoa, Italy in 1987 and the Phd in Computer Science and Robotics in 1991 from the same university.

Since 1986 he has been involved as project coordinator and task manager in several projects on computer vision and image analysis funded by the European Commission. During 1986, 1990 and 1994 he was visiting the Computer Vision and Robotics Laboratory at the Department of Computer Science, Trinity College, Dublin.

In 1989 he was a visiting scientist at Thinking Machines Co. and MIT in Cambridge, Massachusetts, working under the supervision of Prof. Tomaso Poggio and Dr. Lewis Tucker, developing parallel algorithms for dynamic image processing on the Connection Machine. Since 1994 he has been the director of the Computer Vision Laboratory at the Department of Communication, Computer and Systems Science of the University of Genoa, and now at the University of Sassari, leading more than 20 National and European projects on computer vision applications and image-based biometrics.

His main research interests cover biological and artificial vision (particularly in the area of recognition three-dimensional reconstruction and dynamic scene analysis), biometrics, visual sensors, robotic navigation and visuo-motor coordination. He is author of more than 150 scientific papers in peer reviewed books, conferences and international journals.

Prof. Tistarelli is a well known researcher for his work on optical flow and dynamic scene analysis, biometrics, robot vision and anthropomorphic sensors. His research interests and research papers span from Computer Vision and Image Understanding to Medical Imaging, Machine Intelligence, Antropomorphic sensors, Ambient Intelligence and Cognitive Systems.

He has been invited to give talks and seminars on Biometrics, Computer Vision, Robotic sensing and Image Understanding in several Academic institutions, including: University of Yale, University of British Columbia, University of Maryland, Michigan State University, University of Rochester, Tel-Aviv University – Israel, Chinese Academy of Sciences – National Laboratory for Pattern Recognition, Trinity College Dublin, Groupe des Ecoles des Telecommunications – University of Paris, University of Cambridge, University of Lisbon, University of Grand Canaria, Bogazici University – Turkey, University of Budapest, University of Naples, Polytechnic University of Milan, University of Genova, University of Rome.

Prof. Tistarelli is one of the world-recognized leading researchers in the area of biometrics, especially in the field of face recognition and multimodal fusion. He is also reviewer for the strategic research projects of the European Commission, the Italian Ministry of the University and Scientific Research, the Greek Ministry of Research, the Australian Research Council and several other international funding agencies.

He was among the Steering Board members of the European Union Network of Excellence “Biosecure” and he is a founding member of the *Biosecure Foundation*, both including all major European research centers working in biometrics. Within the Biosecure consortium he led the activities related to a Europe-wide evaluation campaign involving 5 modalities: face (stills and video), speech, fingerprint, palmprint and iris. The outcome of the Biosecure evaluation campaign has been recently published together the main achievements of the project. Prof. Tistarelli’s Laboratory is one of the 11 laboratories holding the international rights for the Biosecure multimodal database. Within the scope of the Biosecure project he also worked in a team project (formed by four Biosecure committee members, and with the consultation of several international experts and stake-holders in biometrics) for the establishment of a roadmap for biometrics, which has been published by the European Commission.

Prof. Tistarelli is member of the EU H2020 Marie Curie 690907 project IDENTITY “Computer Vision Enabled Multimedia Forensics and People Identification”, and the Vice-Chair of the European Union COST Action CA16101 “MULTI-modal Imaging of FOREnsic SciEnce Evidence

- tools for Forensic Science". He was the Chair for the EU COST Action IC1106 "Integrating Biometrics and Forensics for the Digital Age". He was a member of the COST action 275 "Biometrics in the networked society" and he was a national representative and management committee member for the COST action 2101 "Biometrics for Identity Documents and Smart Cards".

Prof. Tistarelli is a member of the examination committee for the IEEE Certified Biometrics Professional Program.

Within the long list of scientific publications, Prof. Tistarelli also records several papers on testing methods and applications for face recognition technologies. In 1991 he received the "Outstanding Paper Award" from IEEE Computer Society for a pioneering work on the integration of stereo and motion for robot navigation.

Prof. Tistarelli holds an international patent for an automatic biometric system based on face modality (Int.l Patent **G06K9/62** EU Patent [G06K9/00F3](#); [G06K9/62C2S](#) application WO2005EP08254, filed 7/2005). He also firstly proposed a unique, advanced method for the integration of face and fingerprint modalities already at the feature level (A. Rattani, D.R. Kisku, M. Bicego and M. Tistarelli (2007) "**Feature Level Fusion of Face and Fingerprint Biometrics**", Proc. of first IEEE Int.l Conference on Biometrics: Theory, Applications and Systems (BTAS 07), September 27th to 29th, 2007, Washington DC).

Prof. Tistarelli organized and chaired several world-recognized events in Biometrics. Among them:

- In 1998 chairman for the International workshop on "Advances in Facial Image Analysis and Recognition Technology".
- In 2002 chairman for the International workshop on "Biometric Authentication".
- In 2003 associate guest editor for the IEEE Transactions on Circuits and Systems for Video Technology special issue on "Image- and Video-Based Biometrics".
- Since 2003 he is the founder and director for the IEEE/IAPR International Summer School on Biometrics (now at the 11th edition) held in Alghero, Italy.
- In 2006 and 2008 invited speaker for the tutorial "Advanced Image Processing Techniques for Face Recognition" at the IAPR Int.l Conference on Image Processing.
- In 2007 chairman of the 5th IEEE AutoId conference.
- In 2008 invited speaker for the tutorial "Image Processing Techniques for Face-based Biometrics" at the IEEE Int.l Conference on Computer Vision and Pattern Recognition.
- In 2008 Program Co-chair for track 7 on Biometrics at the 19th IAPR Int.l Conference on Pattern Recognition.
- He was general chair of the 3rd and 8th IEEE/IAPR Int.l Conference on Biometrics held in Alghero in 2009 and in Phuket, Thailand in 2015.
- He is member of the advisory board for IJCB and ICB.

Prof. Tistarelli is Associate Editor for the IEEE Transactions on Pattern Analysis and Machine Intelligence, Pattern Recognition Letters, Image and Vision Computing, IET Biometrics and Pattern Recognition journal. He is the principal editor for the book "Remote Biometrics for surveillance and security" published by Springer Verlag and for the book "Biometrics for Forensic Science", published by Springer in February 2017.

He is a Fellow member and first Vice-President of the International Association for Pattern Recognition (IAPR), member of the Italian IAPR chapter *GIRPR* and chair of the Technical Committee on Biometrics, Senior member of the IEEE and the IEEE Computer Society, Chair of the Italian Chapter of the IEEE Biometrics Council and member of the program committee in several international conferences on computer vision and image analysis.

Massimo Tistarelli is currently Full Professor in Computer Science at the Department of Social Sciences and Information Technology and co-director of the Computer Vision laboratory at the University of Sassari, Italy.

Patents

- M. Baltatu, R. D'Alessandro, R. D'Amico, M. Tistarelli, E. Grosso, M. Bicego (2005), **Automatic biometric identification based on face recognition and support vector machines**, EU Patent (described in <http://v3.espacenet.com>)

Edited volumes

- M. Tistarelli, C. Champod Ed.s *Handbook of Biometrics for Forensic Science*, Springer Verlag, (February 2017).
- M. Tistarelli, R. Chellappa and S.Z. Li Ed.s *Handbook of Remote Biometrics for Surveillance and Security*, Springer Verlag, (June 2009).
- M. Tistarelli, M. Nixon Ed.s, *Advances in Biometrics, Proceedings of the 3rd International Conference on Biometrics, June 2-5 Alghero, Italy*, Lecture Notes on Computer Science n. 5558, Springer-Verlag, 2009.
- M. Tistarelli, J. Bigun and E. Grosso Ed.s *Advanced Studies in Biometrics*, Tutorial LNCS 3161, Springer Verlag, 2003.
- M. Tistarelli, Anil K. Jain Ed.s, *Biometric Authentication*, Lecture Notes on Computer Science n. 2359, Springer-Verlag, 2002.

List of some relevant papers

1. M Nappi, S Ricciardi, M Tistarelli (2018) "Context awareness in biometric systems and methods: State of the art and future scenarios", **Image and Vision Computing**, Vol. 76, pp 27-37, 2018.
2. Y Martínez-Díaz, H Mendez Vazques, L López-Avila, L Chang, LE Sucar, M Tistarelli (2018) "Toward More Realistic Face Recognition Evaluation Protocols for the YouTube Faces Database", in Proc. 2018 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, CVPR 2018 526-5268. 10.1109/CVPRW.2018.00082.
3. K. Nguyen, C. Fookes, S. Sridharan, M. Tistarelli, M. Nixon (2018) "Super-resolution for biometrics: A comprehensive survey", *Pattern Recognition* 78:23-42, June 2018. <https://doi.org/10.1016/j.patcog.2018.01.002>
4. H Mendez Vazquez, F Becerra Riera, A Morales-Gonzalez, M. Tistarelli (2017) "Age and Gender Classification using Local Appearance Descriptors from Facial Components", in Proc. IAPR/IEEE 3rd Int.l Joint Conference on Biometrics - IJCB 2017, pp. 1-7, Denver (CO) USA, IEEE Computer Society Press, October 2017.
5. Z Akhtar, A Hadid, M Nixon, M Tistarelli, J-L Dugelay, S Marcel (2017) "Biometrics: In Search of Identity and Security (Q & A)", **IEEE MultiMedia**, Vol. PP, issue 99, pp. 1-10, June 2017.
6. M Tistarelli, R. Beveridge, P Flynn, M Nappi (2017) Special Issue on Best of Biometrics 2015, Guest editors' introduction, **Image and Vision Computing**, Vol. 58, pp 108-109, 2017.
7. M Nappi, S Ricciardi, M Tistarelli (2017) "Real Time 3D Face-Ear Recognition on Mobile Devices: New Scenarios for 3D Biometrics "in-the-Wild"", in: M. De Marsico, M. Nappi, H. Pedro Proença (Ed.s) *Human Recognition in Unconstrained Environments: Using Computer Vision, Pattern Recognition and Machine Learning Methods for Biometrics*, pp. 55-76, Academic Press, 2017.
8. C. Champod and M. Tistarelli (2017) "Biometric Technologies for Forensic Science and Policing: State of the Art", in: M. Tistarelli, C. Champod Ed.s *Handbook of Biometrics for Forensic Science*, Springer Verlag, pp. 1-15, Springer Verlag, February 2017.
9. M Nappi, S Ricciardi, M Tistarelli (2016) "Deceiving faces: When plastic surgery challenges face recognition", **Image and Vision Computing**, Vol. 54, pp. 71-82, 2016.

10. GL Masala, B Golosio, M Tistarelli, E Grosso (2016) “2D Recurrent Neural Networks for Robust Visual Tracking of Non-Rigid Bodies”, International Conference on Engineering Applications of Neural Networks, pp. 18-34, 2016.
11. CL Liu, B Lovell, D Tao, M Tistarelli (2016) Pattern Recognition, Guest editors' introduction, **IEEE Intelligent Systems**, Vol. 31, n. 2, pp 6-8, 2016.
12. M Tistarelli, M Cadoni, A Lagorio, E Grosso (2016) “Blending 2D and 3D Face Recognition”, Face Recognition Across the Imaging Spectrum, in: T. Bourlai (Ed.) pp. 305-331, Springer, 2016.
13. M.S. Nixon, P.L. Correia, K. Nasrollahi, T.B. Moeslund, A. Hadid, M. Tistarelli (2015) “On Soft Biometrics”, **Pattern Recognition Letters**, 68:218-230, 2015.
14. DRR Kisku, M Tistarelli, P Gupta, JK Sing, “SIFT fusion of kernel eigenfaces for face recognition”, Proceedings of SPIE Security+ Defence, pp. 96520O-96520O-8, International Society for Optics and Photonics, 2015.
15. A. Lagorio, M. Cadoni, E. Grosso, M. Tistarelli (2015) “A 3D algorithm for unsupervised face identification”, in Proc. of 3rd IEEE International Workshop on Biometrics and Forensics (IWBF), pp 1-7, Gjøvik, Norway, IEEE Computer Society Press.
16. M. Tistarelli, Y. Sun, N. Poh (2014) “On the Use of Discriminative Cohort Score Normalization for Unconstrained Face Recognition”, **IEEE Trans. on Information Forensic and Security**, 9(12):2063-2075, 2014.
17. E. Grosso, A. Lagorio, L. Pulina, M. Tistarelli (2014) “Towards Practical Space-Variant Based Face Recognition And Authentication”, in Proc. of 2nd IEEE International Workshop on Biometrics and Forensics (IWBF), pp 1-7, La Valletta, Malta, IEEE Computer Society Press.
18. M. Tistarelli, S.Z. Li (2014) “Real World Applications: A Literature Survey”, Face Recognition in Adverse Conditions, p. 1-15, IGI Global.
19. M. Tistarelli, E. Grosso, D. Meuwly (2014) “Biometrics in Forensic Science: Challenges, Lessons and New Technologies”, Proceedings of the First International Workshop on Biometrics (BIOMET 2014), Lecture Notes in Computer Science Volume 8897, pp 153-164, Springer.
20. D.R. Kisku, D. Chatterjee, S. Trivedy, M. Tistarelli (2014) “Face image abstraction by Ford-Fulkerson algorithm and invariant feature descriptor for human identification”, 2014 International Carnahan Conference on Security Technology (ICCST), pp 1-6, IEEE.
21. M. Tistarelli, Y. Sun (2014) “Cohort-based score normalization”, Encyclopedia of Biometrics, pp 297-304, Springer, DOI 10.1007/978-3-642-27733-7_137-2.
22. M. Tistarelli, Y. Sun (2014) “Sparse Representation for Face Recognition”, Encyclopedia of Biometrics, pp 1-9, Springer, DOI 10.1007/978-3-642-27733-7_137-2.
23. Y. Guan, Y. Sun, C.T. Li, M. Tistarelli (2013) “Human Gait Identification From Extremely Low-Quality Videos: An Enhanced Classifier Ensemble Method”, **IET Biometrics**, Volume 3, Issue 2, June 2014, p. 84–93.
24. Y. Sun, M. Tistarelli, N. Poh (2013) “Picture-Specific Cohort Score Normalization for Face Pair Matching”, in Proc. of 6th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS), (Washington DC, USA), IEEE Computer Society Press.
25. Y. Sun, M. Tistarelli, D. Maltoni (2013) “Structural Similarity based Image Quality Map for Face Recognition across Plastic Surgery”, in Proc. of 6th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS), (Washington DC, USA), IEEE Computer Society Press.
26. Y. Guan, X. Wei, C.T. Li, G.L. Marcialis, F. Roli, M. Tistarelli (2013) “Combining Gait and Face for Tackling the Elapsed Time Challenges”, in Proc. of 6th IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS), (Washington DC, USA), IEEE Computer Society Press.
27. Y. Sun and M. Tistarelli, (2013) “Robust Coarse-to-Fine Sparse Representation for Face Recognition”, in Proc. of the 17th Int.l Conference on Image Analysis and Processing, ICIAP 2013, pp 171-180, Sep. 9-13 2013, Naples, Italy.

28. Z. Akhtar, A. Rattani, A. Hadid and M. Tistarelli, (2013) "Face Recognition under Ageing Effect: A Comparative Analysis", in Proc. of the 17th Int.l Conference on Image Analysis and Processing, ICIAP 2013, pp 309-318, Sep. 9-13 2013, Naples, Italy.
29. D. Hartung, M. Tistarelli, C. Busch (2013) "Vein minutia cylinder-codes (V-MCC)", in Proc. IAPR/IEEE 6th Int.l Conference on Biometrics - ICB 2013, pp. 1-7, Madrid, Spain, IEEE Computer Society Press.
30. D. Yadav, M. Vatsa, R. Singh, M. Tistarelli (2013) "Bacteria Foraging Fusion for Face Recognition across Age Progression", in Proc. 2013 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, CVPR 2013, pp. 173-179, IEEE Computer Society Press.
31. M. Tistarelli, D. Yadav, M. Vatsa, R. Singh (2013) "Short-and long-time ageing effects in face recognition", In: M., Fairhurst (Ed.) *Age Factors in Biometric Processing*, pp. 253-275, IET.
32. E. Grosso, A. Lagorio, L. Pulina and M. Tistarelli (2012) "Understanding Critical Factors in Appearance-Based Gender Categorization", in Proc. Computer Vision – ECCV 2012. Workshops and Demonstrations, Lecture Notes in Computer Science Vol. 7584, pp 280-289. DOI 10.1007/978-3-642-33868-7_28
33. N. Poh, M. Tistarelli (2012) "Customizing biometric authentication systems via discriminative score calibration", in Proc. 2012 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, CVPR 2012, pp. 2681-2686, IEEE Computer Society Press. E-ISBN 978-1-4673-1227-1
34. E. Grosso, L. Pulina and M. Tistarelli (2012) "Modeling Biometric Template Update with Ant Colony Optimization", in Proc. IAPR/IEEE 5th Int.l Conference on Biometrics - ICB 2012, pp 506-511, New Delhi, India, March 29-April 1 2012, IEEE Computer Society Press. E-ISBN 978-1-4673-0397-2
35. M. Tistarelli, S.E. Barrett, A.J. O'Toole (2012) "Facial Recognition, Facial Expression and Intention Detection", in: E. Mordini and D. Tsovaras (Ed.s) *Second Generation Biometrics: The Ethical, Legal and Social Context*, The International Library of Ethics, Law and Technology Volume 11, 2012, pp 229-255, Springer. DOI 10.1007/978-94-007-3892-8_11
36. Kisku, D. R., Gupta, P., Sing, J. K. and Tistarelli, M. (2011) "Face Recognition Using Global and Local Salient Features", in: X. Yang, L. Wang and W. Jie (Ed.s) *Guide to e-Science: Next Generation Scientific Research and Discovery, Part 5*, pp. 453-477, London, Springer, 2011, DOI: 10.1007/978-0-85729-439-5_16. 2011.
37. Tistarelli, M, Schouten. B., "Biometrics in ambient intelligence", **Journal of Ambient Intelligence and Humanized Computing**, Vol. 2, pp 113-126 , Springer Verlag, November 2010, DOI 10.1007/s12652-010-0033-z.
38. Patel, V., Chellappa, R., Tistarelli, M. "Sparse Representations and Random Projections for Robust and Cancelable Biometrics", *Invited paper* in Proc. IEEE Int.l Conference on Automation, Robotics and Computer Vision (ICARCV 2010), pp. 1-6, December 2010, Singapore, IEEE Computer Society Press.
39. Cappelli, R.Ferrara, M., Maltoni, D., Tistarelli, M. "MCC: a Baseline Algorithm for Fingerprint Verification in FVC-onGoing", in Proc. IEEE Int.l Conference on Automation, Robotics and Computer Vision (ICARCV 2010), pp. 19-23, December 2010, Singapore, IEEE Computer Society Press.
40. Poh, N., Kittler, J., Rattani, A., Tistarelli, M. "Group-specific score normalization for biometric systems", in Proc. 2010 IEEE Computer Society Conference on Computer Vision and Pattern Recognition - Workshops, CVPRW 2010, pp 38-45; San Francisco, CA; 13 June 2010, IEEE Computer Society Press, ISBN: 978-142447029-7.
41. Tistarelli, M., Grosso, E. "Human face analysis: From identity to emotion and intention recognition", in Proc. of 3rd International Conference on Ethics and Policy of Biometrics and International Data Sharing, ICEB 2010; Hong Kong, pp. 76-88, Springer LNCS 6005; 4, 5 January 2010.
42. Gupta, P., Kisku, D.R., Sing, J.K., Tistarelli, M. "Maximized posteriori attributes selection from facial salient landmarks for face recognition", in Proc. of 2nd International Conference on Advanced Science and Technology; , pp. 337-344 Miyazaki; 23 June 2010, Springer LNCS 6059.

43. J. Ortega-Garcia, M. Tistarelli et al. "The Multi-Scenario Multi-Environment BioSecure Multimodal Database (BMDB)" **IEEE Trans. on PAMI**, 32(6), 1097-1111 April 2010.
44. Grosso, Lagorio, Tistarelli "Automated quality control of printed flasks and bottles", **Machine Vision and Applications**, 22(2), pp. 269-281, September 2009.
45. A. Ross, A. Rattani and M. Tistarelli, "Exploiting the *Doddington Zoo* Effect in Biometric Fusion," Proc. of 3rd IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS), (Washington DC, USA), September 2009.
46. O'Toole, Alice; Tistarelli, Massimo (2009) *Face recognition in humans and machines*. In: Tistarelli, Massimo; Li, Stan Z.; Chellappa, Rama (Ed.s). *Handbook of remote biometrics for surveillance and security*. London, Springer. p. 111-153. (Advances in Pattern Recognition). eISBN 978-1-84882-385-3.
47. M. Tistarelli, A. Lagorio and E. Grosso (2009) "Face recognition by local and global analysis". In Proceedings of 6th International Symposium on Image and Signal Processing and Analysis, 2009 (ISPA 2009), pp 690-694, Salzburg, 16-18 September 2009.
48. M. Tistarelli "Face device", in S.Z.Li (Ed) *Encyclopedia of Biometrics*, Springer, 2009.
49. M. Tistarelli, M. Bicego, J.L. Alba-Castro, D. Gonzalez-Jimenez, A. Mellakh, D. Petrovska-Delacretaz, and B. Dorizzi "2D Face Recognition" in Petrovska-Delacrétaz, Chollet, Dorizzi (Eds.) *Guide to Biometric Reference Systems and Performance Evaluation*, Springer, April 2009.
50. M. Ortega, L. Brodo, M. Bicego, M. Tistarelli (2009) "Measuring changes in face appearance through aging", in Proc. IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops, CVPR 2009, pp.107-113, 2009, IEEE Computer Society Press.
51. D.R. Kisku, M. Tistarelli, J.K. Singh, P. Gupta (2009) "Face recognition by fusion of local and global matching scores using DS theory: An evaluation with uni-classifier and multi-classifier paradigm", in Proc. IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops, CVPR 2009, pp.. 60-65, 2009, IEEE Computer Society Press.
52. A. Rattani and M. Tistarelli (2009) "Robust multi-modal and multi-unit feature level fusion of face and iris biometrics", Proc. IAPR/IEEE 3rd Int.l Conference on Biometrics - ICB 2009, Alghero, Italy, June 2-5 2009, pp 960-969.
53. Tistarelli, M., Bicego, M. and Grosso, E. (2009) "Dynamic face recognition: From human to machine vision" **Image and Vision Computing**: Special issue on Multimodal Biometrics, M. Tistarelli and J. Bigun ed.s, Vol. 27 (3), pp. 222-232. ISSN 0262-8856.
54. Tistarelli, M. and Bigun, J. (2009) Editorial **Image and Vision Computing**: Special issue on Multimodal Biometrics, M. Tistarelli and J. Bigun ed.s, doi:10.1016/j.imavis.2007.05.006
55. Bicego M., Brelstaff G., Brodo L., Grosso E., Lagorio A. and Tistarelli M. (2008) "Distinctiveness of faces: a computational approach", **ACM Transactions on Applied Perception**, Vol. 5, n. 2, pp. 11:1-11:18, 2008.
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57. F. Yi, M. Tistarelli, H. Wechsler (2008) "Robust Fusion Using Boosting and Transduction for Component-Based Face Recognition", in Proc. of IEEE Int.l Conference on Automation, Robotics and Computer Vision (ICARCV 2008), December 2008, Hanoi, Vietnam, IEEE Computer Society Press.
58. Andrea Lagorio, Enrico Grosso, Massimo Tistarelli, "Automatic Detection of Adverse Weather Conditions in Traffic Scenes," *Advanced Video and Signal Based Surveillance*, IEEE Conference on, pp. 273-279, 2008 IEEE Fifth International Conference on Advanced Video and Signal Based Surveillance, 2008.
59. M. Bicego, A.A. Salah, Grosso E., M. Tistarelli, L. Akarun (2007). "Generalization in Holistic versus Analytic Processing of Faces". Proc. IEEE Int. Conf. on Image Analysis and Processing (ICIAP 2007).

60. Daniel González-Jiménez, Manuele Bicego, J. W. H. Tangelder, B. A. M Schouten, Onkar Ambekar, José Luis Alba-Castro, Enrico Grosso and Massimo Tistarelli, "Distance Measures for Gabor Jets-Based Face Authentication: A Comparative Evaluation", Proc. IAPR/IEEE 2nd Int.l Conference on Biometrics - ICB 2007, Seoul August 28-30 2007, pp 474-483, Springer LNCS 4642.
61. D.R. Kisku, A. Rattani, E. Grosso and M. Tistarelli (2007) "Face Identification by SIFT-based Complete Graph Topology", Proc. IEEE Int.l Workshop on Automatic Identification Advanced Technologies (AutoId 2007) Alghero June 7-8 2007, pp 69-73, IEEE Robotics & Automation Society.
62. A. Rattani, A. Lagorio and M. Tistarelli (2007) "Facial Template Synthesis based on SIFT Features", Proc. IEEE Int.l Workshop on Automatic Identification Advanced Technologies (AutoId 2007) Alghero June 7-8 2007, pp 63-68, IEEE Robotics & Automation Society.
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