

Prof. Gian Luca FORESTI

University of Udine, Italy

Selected Scholarly Contributions [Data Provided by Scopus]

Piciarelli, C., Micheloni, C., Martinel, N., Vernier, M., Foresti, G.L.

[Outdoor environment monitoring with unmanned aerial vehicles](#)

(2013) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 8157 LNCS (PART 2), pp. 279-287.

Martinel, N., Micheloni, C., Foresti, G.L.

[Robust painting recognition and registration for mobile augmented reality](#)

(2013) IEEE Signal Processing Letters, 20 (11), art. no. 6583277, pp. 1024-1027.

Canazza, S., Foresti, G.L.

[A multimodal learning system for individuals with sensorial, neuropsychological, and relational impairments](#)

(2013) Journal of Sensors, 2013, art. no. 564864, .

Rani, A., Kumar, S., Micheloni, C., Foresti, G.L.

[Incorporating linear discriminant analysis in neural tree for multidimensional splitting](#)

(2013) Applied Soft Computing Journal, 13 (10), pp. 4219-4228.

Martinel, N., Vernier, M., Foresti, G.L., Lamedica, E.

[Image processing supports HCI in museum application](#)

(2013) VISAPP 2013 - Proceedings of the International Conference on Computer Vision Theory and Applications, 2, pp. 118-121.

Piciarelli, C., Micheloni, C., Foresti, G.L.

[Kernel-based clustering](#)

(2013) Electronics Letters, 49 (2), pp. 113-114.

Zanolla, S., Rodà, A., Romano, F., Scattolin, F., Foresti, G.L., Canazza, S., Canepa, C., Coletta, P., Volpe, G.

[Teaching by means of a technologically augmented environment: The stanza logo-motoria](#)

(2012) Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 78 LNICST, pp. 231-235.

Snidaro, L., Visentini, I., Bryan, K., Foresti, G.L.

[Markov Logic Networks for context integration and situation assessment in maritime domain](#)

(2012) 15th International Conference on Information Fusion, FUSION 2012, art. no. 6290491, pp. 1534-1539.

Martinel, N., Foresti, G.L.

[Multi-signature based person re-identification](#)

(2012) Electronics Letters, 48 (13), pp. 765-767.

Micheloni, C., Rani, A., Kumar, S., Foresti, G.L.

[A balanced neural tree for pattern classification](#)

(2012) Neural Networks, 27, pp. 81-90.

Snidaro, L., Visentini, I., Foresti, G.L.

[Fusing multiple video sensors for surveillance](#)

(2012) ACM Transactions on Multimedia Computing, Communications and Applications, 8 (1), art. no. 7, .

Piciarelli, C., Micheloni, C., Foresti, G.L.

[Automatic reconfiguration of video sensor networks for optimal 3D coverage](#)

(2011) 2011 5th ACM/IEEE International Conference on Distributed Smart Cameras, ICDSC 2011, art. no. 6042905, .

Foresti, G.L., Rinner, B.

[Message from the general chairs](#)

(2011) 2011 8th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2011, art. no. 6027277, pp. iii-iv.

Salvati, D., Rodà, A., Canazza, S., Foresti, G.L.

[Multiple acoustic sources localization using incident signal power comparison](#)

(2011) 2011 8th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2011, art. no. 6027298, pp. 77-82.

Piciarelli, C., Foresti, G.L.

[PTZ network configuration for optimal 3D coverage](#)

(2011) 2011 8th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2011, art. no. 6027370, pp. 435-437.

Kumar, S., Rani, A., Micheloni, C., Foresti, G.L.

[Supervised learning based stereo matching using neural tree](#)

(2011) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 6979 LNCS (PART 2), pp. 178-188.

Ferrin, G., Snidaro, L., Foresti, G.L.

Contexts, co-texts and situations in fusion domain

(2011) Fusion 2011 - 14th International Conference on Information Fusion, art. no. 5977542, .

Snidaro, L., Visentini, I., Foresti, G.L.

Context representation and fusion via likelihood masks for target tracking

(2011) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 6679 LNAI (PART 2), pp. 110-117.

Piciarelli, C., Foresti, G.L.

Surveillance-oriented event detection in video streams

(2011) IEEE Intelligent Systems, 26 (3), art. no. 5445067, pp. 32-41.

Snidaro, L., Visentini, I., Foresti, G.L.

Data fusion in modern surveillance

(2011) Studies in Computational Intelligence, 336, pp. 1-21.

Cinque, L., Di Renzo, F., Foresti, G.L., Micheloni, C., Morrone, G.

Multi-sensor registration for objects motion detection

(2010) ARTEMIS'10 - Proceedings of the 1st ACM Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams, Co-located with ACM Multimedia 2010, pp. 87-92.

Piciarelli, C., Micheloni, C., Foresti, G.L.

Occlusion-aware multiple camera reconfiguration

(2010) ICDS - 4th ACM/IEEE International Conference on Distributed Smart Cameras, pp. 88-94.

Visentini, I., Snidaro, L., Foresti, G.L.

Cascaded online boosting

(2010) Journal of Real-Time Image Processing, 5 (4), pp. 245-257.

Salvati, D., Rodà, A., Canazza, S., Foresti, G.L.

A real-time system for multiple acoustic sources localization based on ISP comparison

(2010) 13th International Conference on Digital Audio Effects, DAFX 2010 Proceedings, 8 p.

Visentini, I., Snidaro, L., Foresti, G.L.

Selecting classifiers by F-score for real-time video tracking

(2010) 13th Conference on Information Fusion, Fusion 2010, art. no. 5712005, .

Ferrin, G., Snidaro, L., Foresti, G.L.

Revisiting the role of abductive inference in fusion domain

(2010) 13th Conference on Information Fusion, Fusion 2010, art. no. 5711845, .

Rani, A., Kumar, S., Micheloni, C., Foresti, G.L.

Human action recognition using a hybrid NTLD classifier

(2010) Proceedings - IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2010, art. no. 5597125, pp. 262-269.

Micheloni, C., Rinner, B., Foresti, G.L.

Video analysis in pan-tilt-zoom camera networks

(2010) IEEE Signal Processing Magazine, 27 (5), art. no. 5562656, pp. 78-90.

Kumar, S., Micheloni, C., Piciarelli, C., Foresti, G.L.

Stereo rectification of uncalibrated and heterogeneous images

(2010) Pattern Recognition Letters, 31 (11), pp. 1445-1452.

Snidaro, L., Visentini, I., Foresti, G.L.

Sensor management: A new paradigm for automatic video surveillance

(2010) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 6077 LNAI (PART 2), pp. 452-459.

Snidaro, L., Belluz, M., Foresti, G.L.

Modelling and managing domain context for automatic surveillance systems

(2009) 6th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2009, art. no. 5279810, pp. 238-243.

Kumar, S., Micheloni, C., Piciarelli, C., Foresti, G.L.

Stereo localization based on network's uncalibrated camera pairs

(2009) 6th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2009, art. no. 5279943, pp. 502-507.

Snidaro, L., Visentini, I., Foresti, G.L.

Multi-sensor multi-cue fusion for object detection in video surveillance

(2009) 6th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2009, art. no. 5279704, pp. 364-369.

Piciarelli, C., Micheloni, C., Foresti, G.L.

PTZ camera network reconfiguration

(2009) 2009 3rd ACM/IEEE International Conference on Distributed Smart Cameras, ICDSC 2009, art. no. 5289419, .

Dammavalam, S.R., Piciarelli, C., Micheloni, C., Foresti, G.L.

[Shadow removal in outdoor video sequences by automatic thresholding of division images](#)

(2009) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 5716 LNCS, pp. 190-198.

Micheloni, C., Canazza, S., Foresti, G.L.

[Audio-video biometric recognition for non-collaborative access granting](#)

(2009) Journal of Visual Languages and Computing, 20 (6), pp. 353-367.

Orio, N., Snidaro, L., Canazza, S., Foresti, G.L.

[Methodologies and tools for audio digital archives](#)

(2009) International Journal on Digital Libraries, 10 (4), pp. 201-220.

Piciarelli, C., Kumar, S., Micheloni, C., Foresti, G.L.

[Event recognition with PTZ cameras](#)

(2009) IET Seminar Digest, 2009 (2), .

Ferrin, G., Snidaro, L., Foresti, G.L.

[Structuring relations for fusion in intelligence](#)

(2009) 2009 12th International Conference on Information Fusion, FUSION 2009, art. no. 5203821, pp. 1621-1626.

Micheloni, C., Sangineto, E., Cinque, L., Foresti, G.L.

[Improved statistical techniques for multi-part face detection and recognition](#)

(2009) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 5575 LNCS, pp. 331-340.

Micheloni, C., Foresti, G.L.

[Active tuning of intrinsic camera parameters](#)

(2009) IEEE Transactions on Automation Science and Engineering, 6 (4), art. no. 5109628, pp. 577-587.

Visentini, I., Kittler, J., Foresti, G.L.

[Diversity-based classifier selection for adaptive object tracking](#)

(2009) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 5519 LNCS, pp. 438-447.

Micheloni, C., Snidaro, L., Foresti, G.L.

Exploiting temporal statistics for events analysis and understanding

(2009) Image and Vision Computing, 27 (10), pp. 1459-1469.

Remagnino, P., Foresti, G.L.

Computer vision methods for ambient intelligence

(2009) Image and Vision Computing, 27 (10), pp. 1419-1420.

Foresti, G.L., Micheloni, C., Piciarelli, C., Snidaro, L.

Visual sensor technology for advanced surveillance systems: Historical view, technological aspects and research activities in Italy

(2009) Sensors, 9 (4), pp. 2252-2270.

Becher, C., Foresti, G.L., Kaul, P., Koch, W., Lorenz, F.P., Lubczyk, D., Micheloni, C., Piciarelli, C., Safenreiter, K., Siering, C., Varela, M., Waldvogel, S.R., Wieneke, M.

A security assistance system combining person tracking with chemical attributes and video event analysis

(2008) Proceedings of the 11th International Conference on Information Fusion, FUSION 2008, art. no. 4632381, .

Piciarelli, C., Micheloni, C., Foresti, G.L.

Anomalous trajectory patterns detection

(2008) Proceedings - International Conference on Pattern Recognition, art. no. 4761422, .

Snidaro, L., Visentini, I., Foresti, G.L.

Dynamic models for people detection and tracking

(2008) Proceedings - IEEE 5th International Conference on Advanced Video and Signal Based Surveillance, AVSS 2008, art. no. 4730378, pp. 29-35.

Visentini, I., Snidaro, L., Foresti, G.L.

On-line boosted cascade for object detection

(2008) Proceedings - International Conference on Pattern Recognition, art. no. 4761053, .

Piciarelli, C., Micheloni, C., Foresti, G.L.

Support vector machines for robust trajectory clustering

(2008) Proceedings - International Conference on Image Processing, ICIP, art. no. 4712311, pp. 2540-2543.

Piciarelli, C., Micheloni, C., Foresti, G.L.

Trajectory-based anomalous event detection

(2008) IEEE Transactions on Circuits and Systems for Video Technology, 18 (11), art. no. 4633642, pp. 1544-1554.

Micheloni, C., Lestuzzi, M., Foresti, G.L.

Adaptive video communication for an intelligent distributed system: Tuning sensors parameters for surveillance purposes

(2008) Machine Vision and Applications, 19 (5-6), pp. 359-373.

Snidaro, L., Belluz, M., Foresti, G.L.

Representing and recognizing complex events in surveillance applications

(2007) 2007 IEEE Conference on Advanced Video and Signal Based Surveillance, AVSS 2007 Proceedings, art. no. 4425360, pp. 493-498.

Visentini, I., Micheloni, C., Foresti, G.L.

Reactive learning strategy for AsymBoost based face detectors

(2007) Proceedings - 14th International conference on Image Analysis and Processing, ICIAP 2007, art. no. 4362804, pp. 357-362.

Micheloni, C., Snidaro, L., Piciarelli, C., Foresti, G.L.

Exploiting temporal statistics for events analysis and understanding

(2007) Proceedings - 14th International conference on Image Analysis and Processing, ICIAP 2007, art. no. 4362832, pp. 530-535.

Snidaro, L., Belluz, M., Foresti, G.L.

Domain knowledge for surveillance applications

(2007) FUSION 2007 - 2007 10th International Conference on Information Fusion, art. no. 4408118, .

Salvador, E., Foresti, G.L.

Interactive reception desk with face recognition-based access control

(2007) 2007 1st ACM/IEEE International Conference on Distributed Smart Cameras, ICDSC, art. no. 4357517, pp. 140-146.

Piciarelli, C., Foresti, G.L.

Anomalous trajectory detection using Support Vector Machines

(2007) 2007 IEEE Conference on Advanced Video and Signal Based Surveillance, AVSS 2007 Proceedings, art. no. 4425302, pp. 153-158.

Remagnino, P., Prati, A., Foresti, G.L., Cucchiara, R.
[Expert environments: Machine intelligence methods for ambient intelligence](#)
(2007) Expert Systems, 24 (5), pp. 293-294.

Snidaro, L., Foresti, G.L.
[Knowledge representation for ambient security](#)
(2007) Expert Systems, 24 (5), pp. 321-333.

Snidaro, L., Niu, R., Foresti, G.L., Varshney, P.K.
[Quality-based fusion of multiple video sensors for video surveillance](#)
(2007) IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics, 37 (4), pp. 1044-1051.

Remagnino, P., Velastin, S.A., Foresti, G.L., Trivedi, M.
[Novel concepts and challenges for the next generation of video surveillance systems](#)
(2007) Machine Vision and Applications, 18 (3-4), pp. 135-137.

Micheloni, C., Foresti, G.L., Piciarelli, C., Cinque, L.
[An autonomous vehicle for video surveillance of indoor environments](#)
(2007) IEEE Transactions on Vehicular Technology, 56 (2), pp. 487-498.

Visentini, I., Micheloni, C., Foresti, G.L.
[Tuning AsymBoost cascades improves face detection](#)
(2006) Proceedings - International Conference on Image Processing, ICIP, 4, art. no. 4380058, pp. IV477-IV480.

Snidaro, L., Piciarelli, C., Foresti, G.L.
[Activity analysis for video security systems](#)
(2006) Proceedings - International Conference on Image Processing, ICIP, art. no. 4106889, pp. 1753-1756.

Forti, A., Foresti, G.L.
[Growing Hierarchical Tree SOM: An unsupervised neural network with dynamic topology](#)
(2006) Neural Networks, 19 (10), pp. 1568-1580.

Micheloni, C., Foresti, G.L.
[Focusing on target's features while tracking](#)
(2006) Proceedings - International Conference on Pattern Recognition, 1, art. no. 1699020, pp. 836-839.

Snidaro, L., Piciarelli, C., Foresti, G.L.

[Fusion of trajectory clusters for situation assessment](#)

(2006) 2006 9th International Conference on Information Fusion, FUSION, art. no. 4085944, .

Micheloni, C., Snidaro, L., Visentini, I., Foresti, G.

[Sensor bandwidth assignment through video annotation](#)

(2006) Proceedings - IEEE International Conference on Video and Signal Based Surveillance 2006, AVSS 2006, art. no. 4020707, .

Piciarelli, C., Foresti, G.L.

[On-line trajectory clustering for anomalous events detection](#)

(2006) Pattern Recognition Letters, 27 (15), pp. 1835-1842.

Micheloni, C., Piciarelli, C., Foresti, G.L.

[How a visual surveillance system hypothesizes how you behave](#)

(2006) Behavior Research Methods, 38 (3), pp. 447-455.

Micheloni, C., Foresti, G.L.

[Real-time image processing for active monitoring of wide areas](#)

(2006) Journal of Visual Communication and Image Representation, 17 (3), pp. 589-604.

Micheloni, C., Foresti, G.L.

[Zoom on target while tracking](#)

(2005) Proceedings - International Conference on Image Processing, ICIP, 3, art. no. 1530342, pp. 117-120.

Micheloni, C., Salvador, E., Bigaran, F., Foresti, G.L.

[An integrated surveillance system for outdoor security](#)

(2005) IEEE International Conference on Advanced Video and Signal Based Surveillance - Proceedings of AVSS 2005, 2005, art. no. 1577316, pp. 480-485.

Piciarelli, C., Foresti, G.L., Snidaro, L.

[Trajectory clustering and its applications for video surveillance](#)

(2005) IEEE International Conference on Advanced Video and Signal Based Surveillance - Proceedings of AVSS 2005, 2005, art. no. 1577240, pp. 40-45.

Snidaro, L., Foresti, G.L.

[A multi-camera approach to sensor evaluation in video surveillance](#)

(2005) Proceedings - International Conference on Image Processing, ICIP, 1, art. no. 1529947, pp. 1101-1104.

Foresti, G.L., Snidaro, L.

[Vehicle detection and tracking for traffic monitoring](#)

(2005) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 3617 LNCS, pp. 1198-1205.

Piciarelli, C., Micheloni, C., Foresti, G.L.

[An autonomous surveillance vehicle for people tracking](#)

(2005) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 3617 LNCS, pp. 1140-1147.

Snidaro, L., Foresti, G.L.

[Sensor quality evaluation in a multi-camera system](#)

(2005) 2005 7th International Conference on Information Fusion, FUSION, 1, art. no. 1591881, pp. 387-393.

Piciarelli, C., Foresti, G.L.

[Toward event recognition using dynamic trajectory analysis and prediction](#)

(2005) IEE Conference Publication, (2005-11033), pp. 131-134.

Foresti, G.L., Micheloni, C., Piciarelli, C.

[Detecting moving people in video streams](#)

(2005) Pattern Recognition Letters, 26 (14), pp. 2232-2243.

Micheloni, C., Foresti, G.L., Snidaro, L.

[A network of co-operative cameras for visual surveillance](#)

(2005) IEE Proceedings: Vision, Image and Signal Processing, 152 (2), pp. 205-212.

Foresti, G.L., Micheloni, C., Snidaro, L., Remagnino, P., Ellis, T.

[Active video-based surveillance system](#)

(2005) IEEE Signal Processing Magazine, 22 (2), pp. 25-37.

Remagnino, P., Foresti, G.L.

[Ambient intelligence: A new multidisciplinary paradigm](#)

(2005) IEEE Transactions on Systems, Man, and Cybernetics Part A:Systems and Humans., 35 (1), pp. 1-6.

Micheloni, C., Foresti, G.L.

[Image acquisition enhancement for active video surveillance](#)

(2004) Proceedings - International Conference on Pattern Recognition, 3, pp. 326-329.

Foresti, G.L., Micheloni, C., Snidaro, L.

[Event classification for automatic visual-based surveillance of parking lots](#)

(2004) Proceedings - International Conference on Pattern Recognition, 3, pp. 314-317.

Micheloni, C., Foresti, G.L., Alberti, F.

[A new feature clustering method for object detection with an active camera](#)

(2004) Proceedings - International Conference on Image Processing, ICIP, 4, pp. 2587-2590.