

Nicola Bellotto

CONTACTS

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<https://iaslab.dei.unipd.it/groups/mig/>

ACADEMIC EMPLOYMENT

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|--------------|---|
| 2021-present | Associate Professor
<i>Department of Information Engineering, University of Padua, Italy</i> |
| 2009-2021 | Associate Professor (2015-2021)
Senior Lecturer (2010-2015)
Lecturer (2009-2010)
<i>School of Computer Science, University of Lincoln, UK</i> |
| 2008-2009 | Postdoc Research Assistant
<i>Department of Engineering Science, University of Oxford, UK</i> |

EDUCATION

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| 2008 | PhD in Computer Science , University of Essex, UK
Thesis: "Multisensor Data Fusion for Simultaneous People Tracking and Recognition with a Service Robot". |
| 2004 | Master in Electronic Engineering , University of Padua, Italy
Thesis: "Image-based Localization for Mobile Robots in Dynamic Environments". |

RESEARCH

RESEARCH INTERESTS

Artificial Intelligence, Mobile Robotics, Machine Perception.

RESEARCH GRANTS AND CONTRACTS

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| Highlights | <ul style="list-style-type: none"> — Total funding: ~€1.7M. — PI of 3 EU Horizon 2020 projects. — PI of a Google Faculty Research Award. |
| EU funding | <ul style="list-style-type: none"> — <i>DARKO: Dynamic Agile Production Robots That Learn and Optimise Knowledge and Operations</i> (PI, €490k; total project €7M), EU Horizon 2020 (2021-2025). — <i>ENRICHME: Enabling Robot and Assisted Living Environment for Independent Care and Health Monitoring of the Elderly</i> (PI and Technical Manager, €545k; total budget €4M), EU Horizon 2020 (2015-2018). |

- *FLOBOT: Floor Washing Robot for Professional Users* (PI, €305k; total budget €3.2M), **EU Horizon 2020** (2015-2018).
 - Industrial funding – *Active Robot Perception for Automated Potato Planting* (PI, £32k), Jersey Farmers' Union, (2021-2024).
 - *RASberry: Robotics and Automation Systems for Berry Production* (Co-I, £70k; total budget £2.3M), Innovate UK (2018-2020).
 - *ActiVis: Active Vision with Human-in-the-Loop for the Visually Impaired* (PI, \$55k), **Google Faculty Research Award** (2015).
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HONOURS & AWARDS

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| Best paper | <ul style="list-style-type: none"> – Best Industrial Paper Award, Int. Conf. on Computer Vision Theory and Applications (VISAPP 2023). – Best Paper Award, Journal of Intelligent Service Robotics, Springer (2021). – Best Paper Award, IEEE Int. Conf. on Image Processing, Applications and Systems (IPAS 2020). – Best Paper Award, Int. Conf. on Interactive Digital Media (ICIDM 2018). |
| Other | <ul style="list-style-type: none"> – Best Paper Presentation, AAAI Spring Symposium on “Wellbeing AI: From Machine Learning to Subjectivity Oriented Computing” (AAAI SS 2017). |
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MENTORSHIP & SUPERVISION

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| Postdoc RAs | – 5 supervised as direct manager, 1 as vice-manager. |
| PhD students | – 4 supervised as director of studies, 10 as co-director of studies. |
| Examination | <ul style="list-style-type: none"> – External examiner of 11 PhD students and 1 MRes student. – Internal examiner of 4 PhD and 3 MPhil students. |
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EDITORIAL BOARDS

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| Journals | <ul style="list-style-type: none"> – Robotics and Automation Letters (RAL), IEEE (2023-present) – Cognitive Computation and Systems, IET Journals (2021-present) – Robotics, MDPI (2012-present) – Experimental Results, Cambridge University Press (2019-2023) |
| Conferences | <ul style="list-style-type: none"> – Associate Editor of IEEE ICRA and IEEE/RSJ IROS – Area Chair of BMVC |
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EVENTS ORGANISATION

- General Chair of European Conf. on Mobile Robots (ECMR 2025, Padua)
 - General Chair of BMVA Computer Vision Summer School (2017, Lincoln)
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INVITED TALKS

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| Keynotes | <ul style="list-style-type: none"> – Workshop keynote at European Robotics Forum, Malaga (2020) – Panel speaker at Care Show, National Exhibition Centre, Birmingham (2019) – Workshop keynote at Int. Conf. on Intelligent Autonomous Systems, Padua (2014) |
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Seminars	– Dept. of Engineering and Architecture, University of Trieste (2019) – BioRobotics Institute, Sant’Anna School of Advanced Studies, Pisa (2019) – Institute of Microelectronics, Tsinghua University (2019) – Dept. of Computer Science and Engineering, SUSTech (2019) – School of Mechanical and Electrical Engineering, Guangzhou University (2019) – N8 AgriFood Doctoral Seminar, University of Manchester (2019) – Dept. of Computer Science, University of Bristol (2015) – Sheffield Robotics, University of Sheffield (2015) – Applied Computing Research Centre, Coventry University (2015) – EPSRC Mini-Workshop on “Vision for movement”, University of Sussex (2015) – Materials and Engineering Research Institute, Sheffield Hallam University (2014) – Dept. of Computer & Decision Engineering, Université Libre de Bruxelles (2008) – School of Computing and Technology, University of Sunderland (2008)
Lectures	– BMVA Computer Vision Summer School, University of Lincoln (2019) – BMVA Computer Vision Summer School, UEA (2018) – BMVA Computer Vision Summer School, University of Lincoln (2017) – Int. Research-Centered Summer School in Cognitive Systems and Interactive Robotics, Data and Content Analysis, N.C.S.R. Demokritos, Athens (2013) – Summer School in Interactive Robotics & Media, NYU Abu Dhabi (2012)

PROFESSIONAL MEMBERSHIP

IEEE	Senior Member of Institute of Electrical and Electronics Engineers (IEEE) and IEEE Robotics & Automation Society (RAS)
CoRo	Member of IEEE Robotics and Automation Society Technical Committee for Cognitive Robotics (CoRo)
ECMR	Rotating Board Member of European Conference on Mobile Robots

TEACHING

Qualifications	Associate Fellow of the UK Higher Education Academy (2014)
Coordination	– Intelligenza Artificiale / Artificial Intelligence (BSc, 2022-present) – Sistemi Operativi / Operating Systems (BSc, 2022-present) – Advanced Artificial Intelligence (MSc, 2014-2021) – Operating Systems (BSc, 2009-2021) – Project Preparation (BSc, 2013-2014)
Contribution	– Computer Vision (MSc, 2014-2021) – Foundations of Robotics (MSc, 2018-2020) – Computer Vision and Robotics (BSc, 2010-2013) – Artificial Intelligence and Robotics (MSc, 2009-2011) – Software Engineering and Advanced Software Development (BSc, 2009-2010)
Leadership	Program Leader of BSc Computer Science and Information Systems (2010-2011).
Supervision	Supervisor of MSc/BSc/group projects in Computer Science and Games Computing.

PUBLICATIONS

Journals

1. F. Pasti, R. De Monte, D. Dalle Pezze, G. A. Susto and N. Bellotto (2026) "TiROD: Tiny Robotics Dataset and Benchmark for Continual Object Detection", **Journal of Intelligent & Robotic Systems**.
2. L. Castri, G. Beraldo and N. Bellotto (2026) "Causality-enhanced Decision-Making for Autonomous Mobile Robots in Dynamic Environments", **Expert Systems with Applications**, Vol. 309.
3. B. Hurst, N. Bellotto and P. Bosilj (2026) "Improving Pseudo-Labeling for Semi-Supervised Single-Class Instance Segmentation via Mask Symmetry Scoring", **Pattern Recognition Letters**, Vol. 200, pp. 60-66.
4. M. Carnelos, F. Pasti and N. Bellotto (2025) "MicroFlow: An Efficient Rust-Based Inference Engine for TinyML", **Internet of Things**, Vol. 30.
5. L. Castri, S. Mghames, M. Hanheide and N. Bellotto (2024) "CANDOIT: Causal Discovery with Observational and Interventional Data from Time-Series", **Advanced Intelligent Systems**, Vol. 6, No. 12.
6. T. P. Kucner, M. Magnusson, S. Mghames, L. Palmieri, F. Verdoja, C. S. Swaminathan, T. Krajník, E. Schaffernicht, N. Bellotto, M. Hanheide and A. J. Lilienthal (2023) "Survey of maps of dynamics for mobile robots", **The International Journal of Robotics Research**, Vol. 42, No. 11, pp. 977-1006.
7. M. Fernandez-Carmona, S. Mghames and N. Bellotto (2023) "Wavelet-based Temporal Models of Human Activity for Anomaly Detection in Smart Robot-Assisted Environments", **Journal of Ambient Intelligence and Smart Environments**, Vol. 16, No. 2, pp. 181-200.
8. J. Zhao, H. Wang, N. Bellotto, C. Hu, J. Peng and S. Yue (2023) "Enhancing LGMD's Looming Selectivity for UAV with Spatial-temporal Distributed Presynaptic Connections", **IEEE Transactions on Neural Networks and Learning Systems**, Vol. 34, No. 5, pp. 2539-2553.
9. H. Isakhani, N. Bellotto, Q. Fu and S. Yue (2021) "Generative design and fabrication of a locust-inspired gliding wing prototype for micro aerial robots", **Journal of Computational Design and Engineering**, Vol. 8, No. 5, pp. 1191-1203.
10. Z. Yan, S. Schreiberhuber, G. Halmetschlager, T. Duckett, M. Vincze and N. Bellotto (2020) "Robot Perception of Static and Dynamic Objects with an Autonomous Floor Scrubber", **Intelligent Service Robotics**, Springer, Vol. 13, No. 3, pp. 403-417. **Best Paper Award**
11. J. C. Lock, I. Gilchrist, G. Cielniak and N. Bellotto, "Experimental Analysis of a Spatialised Audio Interface for People with Visual Impairments" (2020) **ACM Transactions on Accessible Computing**, Vol. 13, No. 4.
12. F. Camara, N. Bellotto, S. Cosar, F. Weber, D. Nathanael, M. Althoff, J. Wu, J. Ruenz, A. Dietrich, G. Markkula, A. Schieben, F. Tango, N. Merat and C. W. Fox (2020) "Pedestrian Models for Autonomous Driving. Part II: High Level Models of Human Behaviour", **IEEE Transactions on Intelligent Transportation Systems**, doi: 10.1109/TITS.2020.3006767.
13. F. Camara, N. Bellotto, S. Cosar, D. Nathanael, M. Althoff, J. Wu, J. Ruenz, A. Dietrich and C. W. Fox (2020) "Pedestrian Models for Autonomous Driving. Part I: Low Level Models, from Sensing to Tracking", **IEEE Transactions on Intelligent Transportation Systems**, doi: 10.1109/TITS.2020.3006768

14. S. Cosar, M. Fernandez-Carmona, R. Agrigoroaie, J. Pages, F. Ferland, F. Zhao, S. Yue, N. Bellotto and A. Tapus (2020) "ENRICHME: Perception and Interaction of an Assistive Robot for the Elderly at Home", **International Journal of Social Robotics**, Springer, Vol. 12, pp. 779-805.
15. S. Cosar and N. Bellotto (2020) "Human Re-Identification with a Robot Thermal Camera using Entropy-based Sampling", **Journal of Intelligent & Robotic Systems**, Springer, Vol. 98, pp 85-102.
16. C. Coppola, S. Cosar, D. Faria and N. Bellotto (2020) "Social Activity Recognition on Continuous RGB-D Video Sequences", **International Journal of Social Robotics**, Springer, Vol. 12, pp 201-215.
17. Z. Yan, T. Duckett and N. Bellotto (2020) "Online Learning for 3D LiDAR-based Human Detection: Experimental Analysis of Point Cloud Clustering and Classification Methods", **Autonomous Robots**, Springer, Vol. 44, pp 147-164.
18. D. Liu, N. Bellotto and S. Yue (2020) "Deep Spiking Neural Network for Video-based Disguise Face Recognition Based on Dynamic Facial Movements", **IEEE Transactions on Neural Networks and Learning Systems**, Vol. 31, No. 6, pp. 1843-1855.
19. O. Martinez Mozos, V. Sandulescu, S. Andrews, D. Ellis, N. Bellotto, R. Dobrescu and J. Manuel Ferrandez (2017) "Stress Detection Using Wearable Physiological and Sociometric Sensors", **International Journal of Neural Systems**, World Scientific, Vol. 27, No. 2.
20. N. Mavridis, N. Bellotto, K. Iliopoulos and N. Van de Weghe (2015) "QTC3D: Extending the Qualitative Trajectory Calculus to Three Dimensions", **Information Sciences**, Elsevier, Vol. 322, pp. 20-30.
21. C. Dondrup, N. Bellotto, M. Hanheide, K. Eder and U. Leonards (2015) "A Computational Model of Human-Robot Spatial Interactions Based on a Qualitative Trajectory Calculus", **Robotics**, MDPI, Vol. 4, No. 1, pp. 63-102.
22. F. Arvin, A.E. Turgut, F. Bazyari, K.B. Arikan, N. Bellotto and S. Yue (2014) "Cue-based aggregation with a mobile robot swarm: a novel fuzzy-based method", **Adaptive Behavior**, SAGE, Vol. 22, No. 3, pp. 189-206.
23. G. Cielniak, N. Bellotto, and T. Duckett (2012) "Integrating Mobile Robotics and Vision with Undergraduate Computer Science", **IEEE Transactions on Education**, Vol. 56, No. 1, pp. 48-53.
24. N. Bellotto, B. Benfold, H. Harland, H.-H. Nagel, N. Pirlo, I. Reid, E. Sommerlade, C. Zhao (2012) "Cognitive Visual Tracking and Camera Control", **Computer Vision and Image Understanding**, Elsevier, Vol. 116, No. 3, pp. 457-471.
25. N. Bellotto and H. Hu (2010) "A Bank of Unscented Kalman Filters for Multimodal Human Perception with Mobile Robots", **International Journal of Social Robotics**, Springer, Vol. 2, No. 2, pp. 121-136.
26. N. Bellotto and H. Hu (2010) "Computationally Efficient Solutions for Tracking People with a Mobile Robot: an Experimental Evaluation of Bayesian Filters", **Autonomous Robots**, Springer, Vol. 28, No. 4, pp. 425-438.
27. N. Bellotto and H. Hu (2009) "Multisensor Based Human Detection and Tracking for Mobile Service Robots", **IEEE Transactions on Systems, Man, and Cybernetics, Part B**, Vol. 39, No. 1, pp. 167-181.
28. N. Bellotto, K. Burn, E. Fletcher, and S. Wermter (2008) "Appearance-based localization for mobile robots using digital zoom and visual compass", **Robotics and Autonomous Systems**, Elsevier, Vol. 56, No. 2, pp. 143-156.

29. N. Bellotto and H. Hu (2008) "Multimodal People Tracking and Identification for Service Robots", **International Journal of Information Acquisition**, World Scientific, Vol. 5, No. 3, pp. 209-221.
 30. N. Bellotto and H. Hu (2005) "Multisensor Integration for Human-Robot Interaction", **Journal of Intelligent Cybernetic Systems**, ISSN 1746-5907, Vol. 1.
- Editorials
31. A. J. Schofield, I. D. Gilchrist, M. Bloj, A. Leonardis and N. Bellotto (2018) "Understanding images in biological and computer vision", **Interface Focus**, The Royal Society Publishing, Vol. 8, No. 4, pp. 1-3. (Special Issue Editorial)
 32. T. Duckett, A. Tapus and N. Bellotto (2017) "Special Issue on the Seventh European Conference on Mobile Robots (ECMR'15)", **Robotics and Autonomous Systems**, Elsevier, Vol. 91, p. 348. (Special Issue Editorial)
- Book chapters
33. F. Camara, S. Cosar, N. Bellotto, N. Merat and C. Fox (2020) "Continuous Game Theory Pedestrian Modelling Method for Autonomous Vehicles", in C. Olaverri-Monreal and F. Garcia and R. Rossetti, Eds., *Book on Human Factors in Intelligent Vehicles*, River Publishers, ISBN 978-8770222044.
 34. N. Bellotto, S. Cosar and Z. Yan (2018) "Human Detection and Tracking", in M. H. Ang, O. Khatib and B. Siciliano, Eds., *Encyclopedia of Robotics*, Springer, ISBN 978-3-642-41610-1.
 35. N. Bellotto and H. Hu (2009) "Multimodal Robot Perception for Robust Human Tracking and Recognition", in T. Matsuda, Ed., *Robot Vision: New Research*, Nova Science Publishers, ISBN 978-1-60456-984-1.
 36. N. Bellotto and H. Hu (2008) "Simultaneous People Tracking and Recognition for Interactive Service Robots", in E. V. Gaines and L. W. Peskov, Eds., *New Research on Mobile Robots*, Nova Science Publishers, ISBN 978-1-60456-651-2.
- Conferences
37. F. Pizzolato, F. Pasti and N. Bellotto (2026) "Nano-U: Efficient Terrain Segmentation for Tiny Robot Navigation", *Towards Autonomous Robotic Systems (TAROS)*.
 38. P. Simonetto, A. Polato, F. Pasti, M. R. U. Rahman, S. Vascon, S. Tortora, N. Bellotto, E. Menegatti and L. Tonin (2026) "A Multi-Layer Navigation System for Smart Wheelchairs with a Limited Input Interface", *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*.
 39. R. De Monte, D. Dalle Pezze, M. Ceccon, F. Pasti, F. Paissan, E. Farella, G. A. Susto and N. Bellotto (2025) "Replay Consolidation with Label Propagation for Continual Object Detection", *Conference on Lifelong Learning Agents (CoLLAs)*.
 40. A. Rudenko, Y. Zhu, T. Rodrigues de Almeida, T. Schreiter, L. Castri, N. Bellotto, T. Linder, N. Vaskevicius, L. Palmieri, M. Magnusson and A. J. Lilienthal (2025) "Hierarchical System to Predict Human Motion and Intentions for Efficient and Safe Human-Robot Interaction in Industrial Environments", *German Robotics Conference (GRC)*.
 41. E. Stracca, A. Rudenko, L. Palmieri, P. Salaris, L. Castri, N. Mazzi, V. Rakcevic, N. Vaskevicius, T. Linder, N. Bellotto, T. Schreiter, Y. Zhu, M. Castellano-Quero, O. Napolitano, E. Stefanini, L. Heuer, M. Magnusson, A. Swikir and A. J. Lilienthal (2025) "DARKO-Nav: Hierarchical Risk- and Context-aware Robot Navigation in Complex Intralogistic Environments", *Proceedings of the European Robotics Forum (ERF)*, pp. 155-161.
 42. L. Castri, G. Beraldo, S. Mghames, M. Hanheide and N. Bellotto (2024) "Experimental Evaluation of ROS-Causal in Real-World Human-Robot Spatial Interaction Scenarios", *Proceedings of the IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*.

43. S. Mghames, L. Castri, M. Hanheide and N. Bellotto (2024) "neuROSym: Deployment and Evaluation of a ROS-based Neuro-Symbolic Model for Human Motion Prediction", Proceedings of the IEEE International Conference on Robotics, Automation and Mechatronics (RAM). **Finalist for Best Paper Award**
44. W. Li, D. Fusaro, E. Olivastri, S. Mosco, N. Bellotto and A. Pretto (2024) "P-SVM2: Enhancing LiDAR-based Traversability Analysis with Augmented Point Cloud Descriptor for Autonomous Mobile Systems", Proceedings of the IEEE International Conference on Robotics, Automation and Mechatronics (RAM).
45. S. Mghames, L. Castri, M. Hanheide and N. Bellotto (2023) "Qualitative Prediction of Multi-Agent Spatial Interactions", Proceedings of the IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), pp. 1170-1175.
46. S. Mghames, L. Castri, M. Hanheide and N. Bellotto (2023) "A Neuro-Symbolic Approach for Enhanced Human Motion Prediction", Proceedings of the International Joint Conference on Neural Networks (IJCNN).
47. L. Castri, S. Mghames, M. Hanheide and N. Bellotto (2023) "Enhancing Causal Discovery from Robot Sensor Data in Dynamic Scenarios", Proceedings of the Conference on Causal Learning and Reasoning (CLEaR).
48. B. Hurst, N. Bellotto and P. Bosilj (2023) "An assessment of self-supervised learning for data efficient potato instance segmentation", Towards Autonomous Robotic Systems (TAROS), pp. 267-278.
49. F. Pasti and N. Bellotto (2023) "Evaluation of Computer Vision-Based Person Detection on Low-Cost Embedded Systems", Proceedings of the 18th International Conference on Computer Vision Theory and Applications (VISAPP). **Best Industrial Paper Award**
50. L. Castri, S. Mghames, M. Hanheide and N. Bellotto (2022) "Causal Discovery of Dynamic Models for Predicting Human Spatial Interactions", Proceedings of the International Conference on Social Robotics (ICSR).
51. A. Mohtasib, A. Ghalamzan, N. Bellotto and H. Cuayahuitl (2021) "Neural Task Success Classifiers for Robotic Manipulation from Few Real Demonstrations", International Joint Conference on Neural Networks (IJCNN).
52. M. Terreran, A. G. Tramontano, J. C. Lock, S. Ghidoni and N. Bellotto (2020) "Real-time Object Detection using Deep Learning for helping People with Visual Impairments", IEEE International Conference on Image Processing, Applications and Systems (IPAS). **Best Paper Award**
53. J. C. Lock, A. G. Tramontano, S. Ghidoni and N. Bellotto (2019) "ActiVis: Mobile Object Detection and Active Guidance for People with Visual Impairments", International Conference on Image Analysis and Processing (ICIAP).
54. A. Gabriel, S. Cosar, N. Bellotto and P. Baxter (2019) "A Dataset for Action Recognition in the Wild", Towards Autonomous Robotic Systems (TAROS), pp. 362-374.
55. Q. Fu, N. Bellotto, H. Wang, F. C. Rind, H. Wang and S. Yue (2019) "A Visual Neural Network for Robust Collision Perception in Vehicle Driving Scenarios", International Conference on Artificial Intelligence Applications and Innovations (AIAI), pp. 67-79.
56. A. Gabriel, N. Bellotto and P. Baxter (2019) "Towards a Dataset of Activities for Action Recognition in Open Fields", UK-RAS Conference on Robotics and Autonomous Systems (RAS), pp. 64-67.
57. J. C. Lock, G. Cielniak and N. Bellotto (2019) "Active Object Search with a Mobile Device for People with Visual Impairments", International Conference on Computer Vision Theory and Applications (VISAPP), pp. 476-485.

58. Q. Fu, N. Bellotto, C. Hu and S. Yue (2018) "Performance of a Visual Fixation Model in an Autonomous Micro Robot Inspired by Drosophila Physiology", IEEE International Conference on Robotics and Biomimetics (ROBIO), pp. 1802-1808.
59. F. Zhao, S. Cosar, N. Bellotto and S. Yue (2018) "ROI Detection and Tracking for Physiological Monitoring Based on Calibration between RGB-D and Thermal Cameras", International Conference on Interactive Digital Media (ICIDM). **Best Paper Award**
60. Z. Yan, L. Sun, T. Duckett and N. Bellotto (2018) "Multisensor Online Transfer Learning for 3D LiDAR-based Human Detection with a Mobile Robot", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), pp. 7635-7640.
61. S. Cosar, Z. Yan, F. Zhao, T. Lambrou, S. Yue and N. Bellotto (2018) "Thermal Camera Based Physiological Monitoring with an Assistive Robot", IEEE International Engineering in Medicine and Biology Conference (EMBC), pp. 5010-5013.
62. M. Heshmat, M. Fernandez-Carmona, Z. Yan and N. Bellotto (2017) "Active Human Detection with a Mobile Robot", UK-RAS Conference on Robotics and Autonomous Systems (RAS).
63. M. Fernandez-Carmona, S. Cosar, C. Coppola and N. Bellotto (2017) "Entropy-based Abnormal Activity Detection Fusing RGB-D and Domestic Sensors", IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI), pp. 42-48.
64. Z. Yan, T. Duckett and N. Bellotto (2017) "Online Learning for Human Classification in 3D LiDAR-based Tracking", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), pp. 864-871.
65. C. Coppola, S. Cosar, D. Faria and N. Bellotto (2017) "Automatic Detection of Human Interactions from RGB-D Data for Social Activity Classification", IEEE International Symposium on Robot & Human Interactive Communication (RO-MAN), pp. 871-876.
66. N. Bellotto, M. Fernandez-Carmona and S. Cosar (2017) "ENRICHME Integration of Ambient Intelligence and Robotics for AAL", AAAI Spring Symposium – Well-being AI: From Machine Learning to Subjectivity Oriented Computing, TR SS-17-08, pp. 657-664. **Best Paper Presentation Award**
67. J. C. Lock, G. Cielniak and N. Bellotto (2017) "Portable Navigations System with Adaptive Multimodal Interface for the Blind", AAAI Spring Symposium – Designing the User Experience of Machine Learning Systems, TR SS-17-04, pp. 395-400.
68. S. Cosar, C. Coppola and N. Bellotto (2017) "Volume-based Human Re-Identification with RGB-D Cameras", International Conference on Computer Vision Theory and Applications (VISAPP), pp. 389-397.
69. D. Liciotti, T. Duckett, N. Bellotto, E. Frontoni and P. Zingaretti (2017) "HMM-based Activity Recognition with a Ceiling RGB-D Camera", International Conference on Pattern Recognition Applications and Methods (ICPRAM).
70. C. Coppola, D. Faria, U. Nunes and N. Bellotto (2016) "Social Activity Recognition based on Probabilistic Merging of Skeleton Features with Proximity Priors from RGB-D Data", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), pp. 5055-5061.
71. C. Coppola, T. Krajník, T. Duckett and N. Bellotto (2016) "Learning Temporal Context for Activity Recognition", European Conference on Artificial Intelligence (ECAI), pp. 107-115.
72. M. Fernandez-Carmona and N. Bellotto (2016) "On-line Inference Comparison with Markov Logic Network Engines for Activity Recognition in AAL Environments", IEEE International Conference on Intelligent Environments (IE), pp. 136-143.

73. C. Salatino, V. Gower, M. Ghrissi, A. Tapus, K. Wiczorowska-Tobis, A. Suwalska, P. Barattini, R. Rosso, G. Munaro, N. Bellotto and H. van den Heuvel (2016) "EnrichMe: a robotic solution for independence and active aging of elderly people with MCI", International Conference on Computers Helping People with Special Needs (ICCHP).
74. P. Gallina, N. Bellotto and M. Di Luca (2015) "Progressive Co-Adaptation in Human-Machine Interaction", 12th International Conference on Informatics in Control, Automation and Robotics (ICINCO), pp. 362-368.
75. V. Sandulescu, S. Andrews, D. Ellis, N. Bellotto and O. M. Mozos (2015) "Stress detection using wearable physiological sensors", 6th International Work-Conference on the Interplay between Natural and Artificial Computation (IWINAC), Lecture Notes in Computer Science, pp. 526-532.
76. F. Arvin, A. Emre Turgut, N. Bellotto and S. Yue (2014) "Comparison of different cue-based swarm aggregation strategies", Int. Conference on Swarm Intelligence, pp. 1-8.
77. C. Dondrup, N. Bellotto and M. Hanheide (2014) "Social Distance-Augmented Qualitative Trajectory Calculus for Human-Robot Spatial Interaction", IEEE International Symposium on Robot & Human Interactive Communication (RO-MAN), pp. 519-524.
78. C. Dondrup, N. Bellotto and M. Hanheide (2014) "A Probabilistic Model of Human-Robot Spatial Interaction Using a Qualitative Trajectory Calculus", AAAI Spring Symposium – Qualitative Representations for Robots, TR SS-14-06, pp. 18-25.
79. K. Iliopoulos, N. Bellotto and N. Mavridis (2014) "From Sequence to Trajectory and Vice Versa: Solving the Inverse QTC Problem and Coping with Real-World Trajectories", AAAI Spring Symposium – Qualitative Representations for Robots, TR SS-14-06, pp. 57-64.
80. N. Bellotto, M. Hanheide and N. Van de Weghe (2013) "Qualitative Design and Implementation of Human-Robot Spatial Interactions", International Conference on Social Robotics (ICSR), pp. 331-340.
81. M. Hanheide, A. Peters and N. Bellotto (2012) "Analysis of Human-Robot Spatial Behaviour applying a Qualitative Trajectory Calculus", IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), pp. 689-694.
82. Y. Utsumi, E. Sommerlade, N. Bellotto and I. Reid (2012) "Cognitive Active Vision for Human Identification", IEEE International Conference on Robotics and Automation (ICRA), pp. 1238-1245.
83. N. Bellotto (2012) "Robot Control based on Qualitative Representation of Human Trajectories", AAAI Spring Symposium – Designing Intelligent Robots: Reintegrating AI, TR SS-12-02.
84. N. Bellotto, E. Sommerlade, B. Benfold, C. Bibby, I. Reid, D. Roth, C. Fernández, L. Van Gool and J. González (2009) "A Distributed Camera System for Multi-Resolution Surveillance", IEEE International Conference on Distributed Smart Cameras, pp. 1-8.
85. N. Bellotto and H. Hu (2008) "Multimodal Perception and Recognition of Humans with a Mobile Service Robot", IEEE International Conference on Robotics and Biomimetics (ROBIO), pp. 401-406.
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87. N. Bellotto and H. Hu (2007) "Multisensor Data Fusion for Joint People Tracking and Identification with a Service Robot", *IEEE International Conference on Robotics and Biomimetics (ROBIO)*, pp. 1494-1499.
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