

Marco Cristani Curriculum Vitae

Personal information

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Education

- 2006, **Ph.D. in Computer Science**, University of Verona. Thesis: "Statistical generative modelling of audio-video sequences for scene analysis"
- 2002, **Master of Science in Computer Science**, University of Verona. Thesis: "Bayesian approaches for modeling spatio-temporal video sequences in surveillance applications" (5y-long, bachelor+master degree, thesis of excellence)

Present appointment

Full Professor in Computer Engineering (SC 09/H1, SSD IINF-05/A), University of Verona, Department of Engineering for Innovation Medicine (DIMI) (in sabbatical leave until 10/2026).

Current major responsibilities:

- **Vice Chair** of the Engineering Teaching Board, DIMI dept.;
- **Designer** and **Coordinator** of the Bachelor's Degree Program "Ingegneria dei Sistemi Robotici e Intelligenti" ("Computer Engineering of Robotic and Intelligent Systems"), started in the academic year (AY) 2024-25;
- **Principal Investigator** for the sustainability project "FINAL LAP - FINALizzazione intelligente dei materiali LAPidei derivanti da taglio" ("FINAL LAP – Intelligent finalization of cut stone materials") funded by Cariverona Foundation;
- **Member** of the Council of the National PhD Course in Artificial Intelligence, specialization in Industry 4.0 (supervisor and cofounder of three Ph.D. student on deep learning, starting AAYY '22-'23, '23-'24, '24-'25);
- **Member** of the Spin off, Industrial and Intellectual Property Commission of the University of Verona;
- **Member** of the steering committee for a Tenure Track in Fondazione Bruno Kessler (2025-2028)
- **Representative** of the Computer Engineering Park (CEP is the ICT Engineering Technology Incubator of the University of Verona);
- **Member** of the Council of the UNIVR Master's degree course in Computer Game Development;
- **Founder and Coordinator** of INTELLIGO Labs, a research group of 22 members, founded in 2022;
- **Co-founder** (2016) and **Chief Research Officer** of Humatics srl. Spin-off of the University of Verona (Humatics does Data Science and Business Intelligence for fashion companies. Humatics has been bought by SYSDAT-Group SPA on July 2021);

- **Co-founder** (2023) and **Chief Research Officer** of Qualyco srl. Spin-off of the University of Verona (Qualyco does Quality Control for manufacturing and food companies);
- **Lecturer** in BSc, MSc programs on signal and image processing and machine learning courses;
- **Supervisor** of 135 BSc, 52 MSc and 21 PhD theses on machine learning and image processing topics;
- **Company** and **Academic Tutor** of 134 BSc, 47 MSc stages on machine learning and image processing topics;

INDEX

Academic Positions	4
Teaching	5
• Undergraduate courses	5
• Postgraduate courses	5
• Ph.D. courses	6
• Supervision (BSc and MSc).....	6
• Postgraduate supervision (PhD level):.....	6
Academic service.....	8
• Internal appointments to faculty and university boards.....	8
• External appointments at national and international level.....	8
Research activities	9
• Organization of conferences/seminars/exhibitions	9
• Seminars / Invited talks	11
• Membership of editorial boards and reviewing of scientific publications:.....	12
• Membership of scientific committees for international conferences.....	12
• External member of PhD final exam commissions:.....	13
• Fellowships	14
• Awards	14
• Research grants	15
Publications	17
• Books – Edited (2 books)	17
• Journals (59 articles).....	17
• Conference papers (180) (top-tier conferences are marked * in the following)	23
• Chapters in books (13).....	39
Management - Tech Transfer	41
• Research Labs	41
• Spinoff / startup.....	41
• Patents.....	41
• Other entrepreneurship actions:.....	42
Further data.....	42
• Articles published by others in magazines	42
Language	44

Academic Positions

Chronological list of all employments. Ongoing roles in yellow

From/to	Job title	Name of academic Institution	Intl. Academic level	Responsibilities
2022-now	Professore Ordinario	Dept. of Engineering for Innovation medicine (DIMI), University of Verona	Full Professor	Teaching ~120h graduate courses, leading research projects, organizing/participating in third mission initiatives
2026-2027	Honorary professor	Dept. of Computer Science, Reykjavik University	Professor	Research on artificial intelligence and social signal processing.
2025-2026	Visiting Professor	Dept. of Computer Science, Reykjavik University	Professor	Sabbatical year, research on artificial intelligence and social signal processing.
2014-2022	Professore associato	Dept. of Engineering for Innovation medicine (DIMI), University of Verona	Associate Professor	Teaching ~120h graduate courses, leading research projects, organizing/participating in third mission initiatives
2018-2020	Professore a contratto	Free University of Bozen-Bolzano	Adjunct Professor	<i>Lecturer</i> of 60h at the Master Degree in Data Science, <i>Thesis supervisor</i> for MSc students, <i>Scientific responsible</i> for a Capstone project on Computer Vision
2007-2014	Ricercatore a tempo indeterminato	Dept. of Computer Science, University of Verona	Tenured researcher	Teaching ~100h graduate courses, leading research projects, organizing/participating in third mission initiatives
2014-now	Associate Member	National Research Council (CNR), Trento, IT	Researcher	Research within the Laboratory of Applied Ontology (LOA) research group
2013-pres	External Collaborator	Italian Institute of Technology, Genova, IT	Researcher	Research within the Pattern Analysis and Computer Vision PAVIS department
2009-2013	Team Leader	Italian Institute of Technology, Genova, IT	Researcher	Research, leading a research group within the Pattern Analysis and Computer Vision PAVIS department
2006-2007	Postdoctoral Associate	Dept. of Computer Science, UNIVR	Research Fellow	Research, teaching assistant
2006-2007	Professore a contratto	Dept. of Medicine and Surgery, UNIVR	Research Fellow	Teaching ~40h graduate courses ("Basic Information Technology")
2005-2008	Professore a contratto	Dept. of Literature and Philosophy, UNIVR	Research Fellow	Teaching ~40h graduate courses ("Communication and Interaction")

				Thesis supervisor for MSc students
Nov. 2004 - May 2005	Graduate scholarship abroad	University of Southern California, Los Angeles, California	<i>Research Scholar</i>	Research Activities
2003-2006	PhD scholarship, MIUR	Dept. of Comp. Science, UNIVR	PhD Student	Thesis's work, together with 2 journal papers and 7 conference papers
Teaching	Undergraduate courses <i>Signal and Image Processing</i> - AY '24/'25 (36h), '23/'24 (36h), '22/'23 (36h), '21/'22, '20/'21(36h), '19/'20 (72h), '18/'19 (80h) - University of Verona - SSD INF/01 - avg. course evaluation 3.3/4 (avg. result @the Computer Science dept. was 3.08) <i>Artificial Intelligence</i> - AY '24/'25 (36h), '23/'24 (36h) - University of Verona - SSD ING-INF/05 - avg. course evaluation 3.3/4 (avg. result @the Computer Science dept. was 3.08) Postgraduate courses <i>Deep learning</i> - AY '24/'25 (52h)-'21/'22 (52h) (4 editions), University of Verona - SSD INF/01 (subject area: machine learning) - avg. course evaluation 3.88/4 (avg. result @the CS dept. was 3.05) <i>Fundamentals of machine learning</i> - AY '24/'25 (52h)-'20/'21 (52h) (5 editions), University of Verona - SSD INF/01 (subject area: machine learning) - avg. course evaluation 3.88/4 (avg. result @the CS dept. was 3.05) <i>Advanced Recognition Systems</i> - AY '19/'20 (52h), '18/'19 (52h), '17/'18 (52h), '16/'17 (52h), '15/'16 (52h) - University of Verona - SSD INF/01 (subject area: computer vision) - avg. course evaluation 3.88/4 (avg. result @the CS dept. was 3.05) <i>Machine Learning and Pattern Recognition</i> - AY '17/'18 (56h), '16/'17 (56h), '15/'16 (56h) - University of Verona - SSD ING-INF/05 - avg. course evaluation 3.64/4 (avg. result @the CS dept. was 3.05) <i>Human Computer Interaction</i> - AY '17/'18 (20h), '16/'17 (20h), '15/'16 (20h) - University of Verona - SSD ING-INF/05 - avg. course evaluation 3.53/4 (avg. result @the CS dept. was 3.05) <i>Data Profiling</i> - AY 19/20 (60h), 18/19 (60h) - Free University of Bozen-Bolzano - SSD INF/01			

- *avg. general satisfaction:* positive (24% totally yes, 68% generally yes, 8% generally no)
- *Computational analysis of biological structures and networks*
 - AY 16/17 (8h)
 - University of Verona
 - SSD ING-INF/05 (subject area: machine learning applied to biological data)
 - *avg. course evaluation* 3.4/4 (avg result @the CS dept. was 3.07)
- **Ph.D. courses**
 - *Computer Vision Meets Formal Ontology: advanced methods, recent applications and perspectives.* (with D. Porello, R. Ferrario). Trento. June 2015 (20h, evaluation not performed).

- **Supervision (BSc and MSc)**

Type	Major achievements
Quality of the teaching	At UNIVR, I've obtained an average satisfaction score of 3.64/4 (over 14 courses taught since 2015, with a department mean of 3.06/4)
Number of <i>bachelor theses</i> supervised (and the students have been graduated) since AY1819 (when I first started teaching Signal and Image Processing at the Informatics L31 bachelor degree; before, I taught master courses at the CS dept.)	135 . Since July 2019, I have been the professor with the most graduating students at the CS department (<i>average per session: 16</i>). In addition, I'm currently supervising 18 bachelor theses.
Number of <i>master theses</i> supervised (at University of Verona, and the students have been graduated)	52 . In addition, I'm currently supervising 3 master theses.
Number of <i>master theses</i> supervised/ being supervised (at Free University of Bozen-Bolzano)	3
Number of supervised <i>undergrad</i> stages as tutor (at University of Verona – mean duration of a stage: 208h)	134
Number of supervised <i>undergrad</i> stages as academic tutor (at University of Verona, – mean duration of a stage: 231h)	57

- **Postgraduate supervision (PhD level):**

I supervised/I'm supervising 21 PhD students, all of them related to computer vision topics:

- Dr. Qiuyu Kong, 10/2025 – 10/2028
 - Thesis title: "*Beyond multimodal alignment: unveil and represent expert knowledge from free-from structures*"
- Dr. Usman Syed, 10/2024 – 10/2027
 - Thesis title: "*AI for materials and circular economy*"
- Dr. Zanxi Ruan, 10/2024 – 10/2027
 - Thesis title: "*Multimodal alignment using local-global information*"

- Dr. Karin Liu, 10/2023 – 10/2026
 - Thesis title: *"Online anomaly detection by incremental learning"*
- Dr. Federico Girella, 10/2022 – 10/2025
 - Thesis title: *"Integrating Natural Language in Vision-Centric Artificial Intelligence"*
- Dr. Francesco Taioli (*now in Amazon research*), 10/2022 – 10/2025
 - Thesis title: *"Robust Embodied Navigation via Active Perception and Human-Agent Interaction"*
- *Dr. Luigi Capogrosso (*now in Interdisciplinary Transformation University of Austria (IT:U)*), 10/2021 – 10/2024
 - Thesis title: *"Learning-Based Methods for Enabling On-Edge, Accurate, Sustainable, and Human-Centered Intelligent Manufacturing"* (The thesis won the **EDAA Outstanding Dissertation Award** in 2026)
- Dr. Andrea Avogaro, 10/2021 – 10/2024
 - Thesis title: *"From Prediction to Interaction: Exploring Deep Learning Forecasting Models for Human-Centered Industrial Applications"*
- Dr. Andrea Toaiari, 10/2021 – 10/2024
 - Thesis title: *"Deep Learning for Human Behavior Understanding: A Comprehensive Study of Trajectory, Pose, and Gaze in Social and Human-Robot Interaction Scenarios"*
- Dr. Federico Cunico (*now in my startup Humatics srl*), 10/2021 – 10/2024
 - Thesis title: *"Industrial Scene Analysis from a Human-centered Perspective through Intelligent Systems"*
- Dr. Geri Skenderi (*now in Bocconi*), 10/2020 – 10/2023
 - Thesis title: *"Graphs, geometry and learning representations"*
- Dr. Christian Joppi, 10/2018 - 10/2021
 - Thesis title: *"Texture Analysis by explainable attributes"*
- Dr. Marco Godi, 10/2017 - 10/2020
 - Thesis title: *"Capturing and understanding clothing aesthetical features by deep learning"*
- Dr. Marco Carletti, 10/2016 - 10/2019 (*now R&D Software Engineer at eVS embedded Vision Systems Srl*)
 - Thesis title: *"Saliency-based approaches for multidimensional explainability of deep networks"*
- Dr. Irtiza Hasan, 10/2015 - 10/2018 (*now research associate at Inception Institute of Artificial Intelligence (IIAI)*).
 - Thesis title: *"Head Pose Estimation and Trajectory Forecasting"*
- Dr. Theodore Tsesselis, 10/2015 - 10/2018 (*now Post-doc at Istituto Italiano di Tecnologia*).
 - Thesis title: *"Measuring and understanding light in real life scenarios"*
- Dr. Giorgio Roffo, 1/2014 - 12/2016 (*has been Research Associate at University of Glasgow*).
 - Thesis title: *"Ranking to learn and learning to rank: on ranking on pattern recognition applications"*
- Dr. Sami Abduljalil Abdulhak, 1/2013 - 12/2015 (*co-founder of AlbioTex*).
 - Thesis title: *"Automatic Training Image Set Creation for Object Recognition"*
- Dr. Davide Conigliaro, 1/2013 - 12/2015 (*now CEO of Humatics, spin-off within the University of Verona*).
 - Thesis title: *"Spectator crowd: a social signal processing perspective"*
- Dr. Cristina Segalin, 1/2013 - 12/2015 (*now Research Scientist at Netflix*).
 - Thesis title: *"A social signal processing perspective on computational aesthetics: theories and applications"*

	○ Dr. Anna Pesarin, 1/2007 - 12/2010 (<i>now IT responsible at ALPET srl</i>). ▪ Thesis title: "Social Signal processing and turn taking: a statistical approach"
Academic service	• Internal appointments to faculty and university boards ○ 2025-now, Vice Chair of the Engineering Teaching Board, DIMI dept.; ○ 2024-now, Designer and Coordinator for the Bachelor Degree on <i>Engineering of the Robotic and Intelligent systems</i> (L8 class) ○ 2015-2022, Representative of the <i>Computer Science Park</i> (csp.univr.it, CSP is the ICT Technology Incubator of the University of Verona) ○ 2019-now, President of the <i>Spinoff committee</i> of the CS dept ○ 2019-now, Member of the <i>Departmental Board</i> (Giunta di Dipartimento) of the CS dept. ○ 2012-now, Member of the <i>Council</i> of the UNIVR <i>Master in Computer Game Development</i> ○ 2012-now, Scientific Responsible of UNIVR for a series of <i>Convenzioni Quadro</i> between the Verona University and the Istituto Italiano di Tecnologia ○ 2012-now, Scientific Responsible of UNIVR for a series of <i>Convenzioni Quadro</i> between the Verona University and the Consiglio Nazionale delle Ricerche (CNR). Thanks to this collaboration, the CNR supported financially two Post-doc (Dr. Francesco Setti, 2012-2015 and Dr. Nicola Zeni, 2014-2015) and a Ph.D. grant (Dr. Davide Conigliaro, PhD program XXVIII Series, 1/2013 - 12/2015) ○ 2019, Member of the <i>AQ committee</i> (Commissione di Assicurazione della Qualità) for the bachelor's degree in computer science of the CS dept. ○ 2017, Internal Member of the selection commission for the <i>call of an RTDb</i> (tenure track) position ○ 12/2011, Member of the Departmental Planning Committee (Commissione di Programmazione di Dipartimento) ○ 2011, Member of the PhD Admissions Committee ○ 2010-now, Member of the <i>Council of the PhD School</i> in CS ○ 2010-now, Member of the <i>Didactic Council</i> (Collegio Didattico) of the CS dept ○ 2007-now, Member of the <i>PhD Committee</i> for tens of students ○ 2007-2010, Chair of the Computer Science Colloquia (Seminari di Dipartimento) • External appointments at national and international level ○ 2025-2028 Member of the advisory committee for a Tenure-track program in FBK (Fondazione Bruno Kessler) ○ 2020-now Member of 7 national academic selection committees — Researchers (3), Associate Professors (1), Full Professors (3 University of Verona, University of Florence, University of Turin) ○ 2024 – 2025 Senior Coach in Artificial Intelligence 4 StartUp within the Inest PNRR project, line CC1 on Technology Transfer ○ 2021 – 2024 Member of the Council of the National PhD Course in Artificial Intelligence, specialization in Industry 4.0 (supervisor of 4 Ph.D. student on deep learning)

	○ 06/2018 – 2022, Department Representative for the CINI National Laboratory in Artificial Intelligence and Intelligent Systems – AIIS ○ 7/2018, Remote Evaluator for one <u>FETOPEN-01-2018-2019-2020</u>: FET-Open Challenging Current Thinking (cut-off date 16th May 2018) ○ 12/2017, Internal Member of the selection commission for the call of an RTDa position at the University of Trento ○ 11/2015, Remote Reviewer for one <u>ERC Advanced Grants</u> proposal (panel PE6, Step 2) ○ 12/11/2014, Mentor of PhD candidates, at the Doctoral Consortium of the 16th ACM International Conference on Multimodal Interaction (ICMI) ○ 2014, President of the Qualifying Examination Committee at University of Trento, for 1 PhD candidate ○ 2014, International reviewer for the Outstanding MPhil Thesis Award (OTA) of the Faculty of Engineering of The Chinese University of Hong Kong ○ 2013, President of the Qualifying Examination Committee at University of Trento, for 8 PhD candidates (AA.2011-12, 2012-13) ○ 25/10/2013, Mentor of PhD candidates, at the <i>Doctoral Consortium of the ACM International Conference on Multimedia 2013</i>, Barcelona, Spain
Research activities	• Organization of conferences/seminars/exhibitions I co-organized international conferences (1) and workshops (19), the latters hosted by top-score computer vision conferences (CVPR, ICCV, ECCV, ACMMM) ○ <u>Organizing Co-Chair</u> (together with Yiming Wang, Loris Bazzani, Umberto Michieli, Fabian Caba Heilbron, Nuria Oliver, Nicu Sebe) of the <i>Workshop on Human-AI Co-Creation</i> at ECCV 2026, Milan, 2026 ○ <u>Organizing Co-Chair</u> (together with Francesco Taioli, Yiming Wang, Xinyuan Qian, Jacob Krantz, Angel X. Chang, Alessandro Vinciarelli, Alessio Del Bue) of the <i>Human-aware Embodied AI (HEAI) workshop</i> at IROS 2025, Hangzhou, Oct. 24, 2025 ○ <u>Organizing Co-Chair</u> (together with Dr. Yiming Wang, Dr. Subhankar Roy, Dr. Massimiliano Mancini, Dr. Davide Talon, Dr. Kaiyang Zhou, Dr. Enzo Tartaglione, Prof. Zeynep Akata, Dr. Aishwarya Agrawal, Dr. Girmaw Abebe Tadesse) of the <i>GreenFOMO: Efficient Foundation Models workshop</i> at ECCV 2024, MiCo Milano (Suite 9), Sep. 30, 2024 ○ <u>Organizing Co-Chair</u> (together with Prof. Zhiyuan Luo, Dr. Giovanni Cherubin) of the <i>9th Symposium on Conformal and Probabilistic Prediction with Applications</i>, Verona, Sep. 9-11, 2020 (among the others, invited speaker will be Vladimir Vapnik) ○ <u>Organizing Co-Chair</u> (together with Prof. Bogdan Ionescu, Dr. Tiberio Uricchio, Prof. Marian Buric, Prof. Razvan Roman, Prof. Vincent Charvillat) of the <i>3rd International Workshop On Research & Innovation For Secure Societies (RISS 2020)</i> associated with the International Conference on Pattern Recognition (ICPR'20), Milan, Jan 11, 2020 ○ <u>Organizing Co-Chair</u> (together with Dr. Fabio Galasso, Prof. Kris Kitani, Dr. Siyu Tang) of the <i>International Workshop on Pattern Forecasting (PATCAST)</i> associated with the International Conference on Pattern Recognition (ICPR'20), Milan, Jan 11, 2020 ○ <u>Organizing Co-Chair</u> (together with Dr. Daniele Porello, Dr. Celine Hudelot) of the International Workshop on Computer vision + ONTology: <i>Applied Crossdisciplinary Technologies (CONTACT 2016)</i>, associated with the 9th International Conference on Formal Ontology in Information Systems (FOIS), Annecy, July 6-9, 2016 ○ <u>Organizing Co-Chair</u> (together with Prof. Vittorio Murino, Prof. Shishir Shah and Prof. Silvio Savarese) of the <i>International Workshop on GRoup and cROWd behavior analysis and understanding (GROW 2015)</i>, associated with the IEEE

- Conference on Computer Vision and Pattern Recognition (CVPR), Boston, Massachusetts, June 2015
- Organizing Co-Chair (together with Prof. Shaogang Gong, Prof. Steve Maybank, Prof. Shuicheng Yan, Dr. James Orwell and Dr. Kaiqi Huang) of the *International Workshop on Visual Surveillance and Re-Identification*, associated with the European Conference on Computer Vision (ECCV) 2014, Zurich, Switzerland, September 2014
 - Organizing Co-Chair (together with Dr. Roberta Ferrario and Dr. Jason J. Corso) of the *First International Workshop on Computer vision + ONTology Applied Crossdisciplinary Technologies (CONTACT 2014)*, associated with the European Conference on Computer Vision (ECCV) 2014, Zurich, Switzerland, September 2014. During the workshop, a prize of the value of €500 has been assigned for the best paper
 - Organizing Co-Chair (together with Dr. Concetto Spampinato and Dr. Vasileios Mezaris) of the *3rd ACM International Workshop on Multimedia Analysis for Ecological Data*, associated with the ACM International Conference on Multimedia (ACM MM) 2014, Orlando, Florida, November 2014. A prize of the value of of €500 has been assigned for the best paper, during the workshop
 - Organizing Co-Chair (together with Prof. Alessandro Vinciarelli and Prof. Vittorio Murino) of the *IEEE International Workshop on Socially Intelligent Surveillance and Monitoring (SISM) 2013*, associated with the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Portland (Oregon), June 2013
 - Organizing Co-Chair (together with Prof. Shaogang Gong and Prof. Shuicheng Yan) of the *First International Workshop on Re-Identification*, associated with the European Conference on Computer Vision (ECCV) 2012, Florence, Italy, October 2012. During the workshop, a prize of the value of €500 was assigned for the best paper
 - Organizing Co-Chair (together with Prof. Alessandro Vinciarelli and Prof. Vittorio Murino) of the *IEEE International Workshop on Socially Intelligent Surveillance and Monitoring (SISM) 2012*, associated with the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Providence (Rhode Island), June 2012
 - Organizing Co-Chair (together with Prof. Alessandro Vinciarelli and Prof. Vittorio Murino) of the *IEEE International Workshop on Socially Intelligent Surveillance and Monitoring (SISM) 2011*, associated with the IEEE International Conference on Computer Vision (ICCV), Barcelona, Spain, November 2011
 - Local organizer for the *Second International PLUS Advanced School on Computer Vision, Pattern Recognition and Image Processing*, Genova, Italy, March 21-24, 2011
 - Organizing Co-Chair (together with Prof. Alessandro Vinciarelli and Prof. Vittorio Murino) of the *IEEE International Workshop on Socially Intelligent Surveillance and Monitoring (SISM) 2010*, associated with the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), San Francisco (California), June 2010
 - Organizing Co-Chair (together with Prof. Hamid Aghajan, Prof. Vittorio Murino and Prof. Nicu Sebe) of the *ACM Workshop on Multimodal Pervasive Video Analysis (MPVA)*, associated with the ACM International Conference on Multimedia, Florence, Italy, October 2010
 - Local organizer for the *International PLUS-VIPS Advanced School on Computer Vision, Pattern Recognition and Image Processing*, Sestri Levante (Ge), Italy, July 18-22, 2010
 - Local organizer for the *international VIPS Advanced Schools on Computer Vision, Pattern Recognition and Image Processing*, in the following 8 editions 2004a, 2004b, 2004c, 2005a, 2005b, 2005c, 2006a, 2007a

- **Seminars / Invited talks**

- *"From Interpretability to Expressiveness: Generative Modeling for Multimodal Data Through the Years"*, ICAI 2026 Hangzhou, host Remo Proietti 29/9/2026
- *"Scolpire il Futuro, Nuove Frontiere tra Tradizione e Intelligenza Artificiale"*, Marmomac 2026, host CONFIMI API Industria, 23/09/2026
- *"From Interpretability to Expressiveness: Generative Modeling for Multimodal Data Through the Years"*, Chinese University of Hong Kong, host Haizhou Li 23/7/2026
- *"From Interpretability to Expressiveness: Generative Modeling for Multimodal Data Through the Years"*, Shenzhen Loop Area Institute, host Haizhou Li 22/7/2026
- *"AI Unleashed! A 360° View for Startup Innovators (Ver 2026)"*, Reykjavik University, host Ásgeir Jónsson 27/4/2026
- *"AI Unleashed! A 360° View for Startup Innovators"*, Università Ca Foscari Venezia, host Carlo Bagnoli 27/4/2025
- *"From Interpretability to Expressiveness: Generative Modeling for Multimodal Data Through the Years"*, Reykjavik University, host Björn Þór Jónsson 21/2/2025
- *"Forecast the forecasting"*, invited talk at ICPRAM 2024; Rome, IT (Feb. 25, 2024).
- *"Forecasting in the deep learning era"*, invited talk at AI-DLDA: International Summer School on Artificial Intelligence; Udine, IT (July. 5, 2023).
- *"Video Understanding for Intelligent Lighting"*, invited talk at HUAWEI International Video Intelligence Forum; Dublin, IRL (Oct. 22, 2019).
- *"Unveiling cognitive processes of preference on visual data"* invited talk at IEEE CVPR 2019 Understanding Subjective Attributes of Data workshop; Long Beach, US (Jun. 16, 2019). CVPR is the first-rank conference for computer science (according to Guide2Research)
- *"Artificial Intelligence for the development of industrial processes"* invited talk at Digital Innovation: Competitive Advantages of Artificial Intelligence event, organized by Confindustria Romagna (Italian event, Feb. 27, 2019)
- *"SceneUnderLight: a European project on lighting, computer vision and machine learning"*. Invited talk at Human Centric smart lighting event, Padova, IT (June 28, 2018). The Italian event is organized by HIT human Inspired Technology Research Centre of Padua, and the ICT for Smart and Sustainable Living Italian network.
- *"Advanced Analysis of Human Activities: A Social Signal Processing Perspective"*, Korea University, host Seong-Whan Lee, Nov 6, 2012
- *"Advanced Analysis of Human Activities: A Social Signal Processing Perspective"*, Hankuk University, host Cheng Dong Seon, Nov 5, 2012
- *"Advanced Analysis of Human Activities: A Social Signal Processing Perspective"*, University of Amsterdam, host Hayley Hung, Aug 31, 2012
- *"Detection of Group Interactions in Cocktail Party Scenarios: A Social Signal Processing Perspective"*, University of Glasgow, host Alessandro Vinciarelli, May 30, 2012
- *"Advanced Analysis of Human Activities: A Social Signal Processing Perspective"*, IIT Genoa, host Vittorio Murino, Apr 12, 2012
- *"Advanced Analysis of Human Activities: A Social Signal Processing Perspective"*, FBK Trento, host Oswald Lanz, Jan 12, 2012
- *"The Hidden Markov Modeling Paradigm for Tackling Computer Vision Problems"*, Keio University, host Hideo Saito, Sep 24, 2009
- *"Generative Modeling and Classification of Dialogs by Low-Level Features"*, University of Trento, host Giuseppe Riccardi, May 14, 2009
- *"Hidden Markov Models: Theory and Applications"*, Pompeu Fabra University, host Alejandro Frangi Caregnato, Mar 9, 2007
- *"Mean Shift: Theory and Applications"*, University of Verona, Jul 4, 2006

- **Membership of editorial boards and reviewing of scientific publications:**
 - **Associate Editor** for the following international journals:
 - Pattern Recognition (Elsevier, IF 5.898, ISSN 0031-3203, SCIMAGO first quartile Q1 for Computer Vision and Pattern Recognition)
 - Pattern Recognition Letters (Elsevier, IF 2.810, ISSN 0167-8655, SCIMAGO Q1 for Computer Vision and Pattern Recognition)
 - **Co-editor** for the following books
 - *Group and crowd behavior for computer vision* (with Vittorio Murino, S. Shah and S. Savarese), Academic Press, 2017, ISBN 978-0-1280-9276-7
 - *Person re-identification* (with S. Gong, S. Yan, and C. C.Loy), Advances in Computer Vision and Pattern Recognition, Springer, 2014, ISBN 978-1-4471-6296-4
 - **Since 2013**, I have been **Referee for the following international journals:**
 - IEEE Transactions on Pattern Analysis and Machine Intelligence (ISSN: 0162-8828),
 - Computer Vision and Image Understanding (Elsevier, ISSN: 1077-3142),
 - IEEE Transactions on Multimedia (ISSN: 1520-9210),
 - Pattern Recognition (Elsevier, ISSN: 0031-3203),
 - Pattern Recognition Letters (Elsevier, ISSN: 0167-8655).
 - IEEE Transactions on Information Forensics and Security (ISSN: 1556-6013),
 - IEEE Pervasive Computing (ISSN:1536-1268),
 - IEEE Transactions on Systems, Man, and Cybernetics Part B (ISSN: 1083-4419),
 - IEEE Signal Processing Letters (ISSN: 1070-9908),
 - IEEE Transactions on Image Processing (ISSN:1057-7149),
 - IEEE Transactions on Circuits and Systems for Video Technology (ISSN: 1051-8215),
 - Artificial Intelligence in Medicine (Elsevier, ISSN: 0933-3657)
- **Membership of scientific committees for international conferences**
 - **Senior Area Chair** for WACV 2027;
 - **Area Chair** for NEURIPS 2026;
 - **Area Chair** for ECCV 2022, 2024, 2026: European Conference on Computer Vision;
 - **Area Chair** for IJCAI 2026: 35th International Joint Conference on Artificial Intelligence;
 - **Area Chair** for ACM MM 2026: 35th International Joint Conference on Artificial Intelligence;
 - **Tutorial Chair** for ICMI 2026: 28th ACM International Conference on Multimodal Interaction;
 - **Program Chair** for IAPR International Conference on Image Analysis and Processing 2025;
 - **Area Chair** for CVPR 2025: IEEE/CVF Conference on Computer Vision and Pattern Recognition;
 - **Speed Mentor** at ECCV 2024: European Conference on Computer Vision;
 - **Demo Chair** for ECCV 2024: European Conference on Computer Vision;
 - **Area Chair** for the IEEE WACV 2021, 2015: Winter conference on Applications of Computer Vision; WACV is ranked **6th** as Image Processing & Computer Vision conference by Guide2research (guide2research.com);
 - **Senior Program Committee Member** for the 30th International Joint Conference on Artificial Intelligence IJCAI 2019-20-21; IJCAI is ranked **10th** as Machine Learning & Artificial Intelligence conference by Guide2research;
 - **Area Chair** for ICIAP 2023: International Conference on Image Analysis and Processing;

- **Doctoral Symposium Co-chair** for the ACM International Conference on Multimedia 2013 (ACM MM); ACM MM is ranked **4th** as Image Processing & Computer Vision conference by Guide2research;
- **Associate Editor** for IAPR International Conference on Pattern Recognition 2020 (Track 3: Computer Vision Robotics and Intelligent Systems); ICPR is ranked **10th** as Image Processing & Computer Vision conference by Guide2research;
- **Doctoral Symposium Co-chair** for the ACM International Conference on Multimodal Interaction 2017 and 2014 (ICMI); ICMI is ranked **9th** as Human Computer Interaction conference by Guide2research;
- **Workshop Co-chair** for the International Conference on Image Analysis and Processing (ICIAP), 2019 and 2015, (Trento and Genova), Italy; ICIAP is ranked **33th** as Image Processing & Computer Vision conference by Guide2research;
- **Since 2013**, I have been **Member of the Program Committee** of many yearly computer vision and machine learning international conferences (except ECCV, ICCV biannual), among them:
 - IEEE International Conference on Computer Vision and Pattern Recognition (**CVPR**)
 - IEEE International Conference on Computer Vision (**ICCV**)
 - European Conference on Computer Vision (**ECCV**)
 - International Joint Conference on Artificial Intelligence (**IJCAI**)
 - International Conference on Learning Representation (**ICLR**) Neural Information Processing Systems (**NeurIPS**, formerly **NIPS**)
 - Asian conference on Computer Vision (**ACCV**)
 - British Machine Vision Conference (**BMVC**)
 - IEEE International Conference on Robotics and Automation (**ICRA**).
- **External member of PhD final exam commissions:**

I managed **22** PhD theses, appointed by the universities of Trento, Genova, Catania, Cagliari, Madrid (Comillas), Blaise Pascal - Clermont-Ferrand II, Delhi, Reykjavik:

 - 11/2025, *Advancing Knee Osteoarthritis Assessment using Novel Quantitative Imaging Features and Machine Learning*, Reykjavik University, Iceland, candidate Federica Kiyomi Ciliberti
 - 11/2025, *AI Evaluations of Sarcoma From Magnetic Resonance Imaging*, Reykjavik University, Iceland, candidate Arnar Evgení Gunnarsson
 - 10/2025, *On Language as an Interface for Controlling Image Generation* at University of Trento, candidate Zipeng Xu
 - 2/2024, *Exploring 2d and 3D Human Generation and Editing*, at University of Trento, candidate Jichao Zhang
 - 9/2023, *Generative and Adversarial Learning for Object Recognition* at University of Delhi, candidate Astha Verma
 - 9/2020, *Semantic Image interpretation BY Ontologies and Computer Vision*, at University of Trento candidate Ivan Donadello
 - 12/2019, *The Role of Object Instance Re-Identification in 3D Object Localization and Semantic 3D Reconstruction*, at University of Genova, Italy, candidate Vaibhav Bansal
 - 10/2018, *Deeply Incorporating Human Capabilities Into Machine Learning Models For Fine-Grained Visual Categorization*, at University of Catania, Italy, candidate Francesca Murabito
 - 04/2018, *Semantic Image Interpretation – Integration of Numerical Data and Logical Knowledge for Cognitive Vision* at University of Trento, Italy, candidate Ivan Donadello

- 12/2017, *Person Re-Identification Techniques for Intelligent Video Surveillance Systems*, at University of Cagliari, Italy, candidate Bahram Lavi Sefidgari
 - 2016, *Computational Models for Analyzing Affective Behaviors and Personality from Speech and Text* at University of Trento, Italy, candidate Firoj Alam
 - 10/2016, *Image interpretation using logic-based abduction* at TELECOM ParisTech, France, candidate Yifan YANG
 - 2015, *Social interaction analysis in videos, from wide to close perspective* at University of Trento, Italy, candidate Paolo Rota
 - 2015, *Multi-target tracking in unevenly illuminated scenes* at University of Trento, Italy, candidate Sinan Mutlu
 - 2014, *Exploiting text corpora for data enrichment in language and vision applications* at University of Trento, Italy, candidate Dieu Thu Le
 - 2014, *Behavior detection models using computer vision applied to security systems* at Pontical University of Comillas, Madrid, candidate Manuel Alvar
 - 2014, *Multi-task Learning and Feature Selection for Event Detection and Human Behaviour Understanding* at University of Trento, candidate Yan Yan
 - 2014, *Unveiling Human Behaviors: Automated Behavioral Analysis from Small to Big Data* at University of Trento, candidate Jacopo Staiano
 - 2014, *Investigating Brain Connectomics at Network Scale* at University of Genova, candidate Simona Ullo
 - 2014, *Bayesian Nonparametrics for Computer Vision: from Low to High-Level Tasks* at University of Genova, candidate Matteo Zanotto
 - 2014, *Statistical Data Fusion Techniques for Multi-Cue Image Classification* at University of Genova, candidate Marco San Biagio
 - 2012, *Toward Semantic-Shape-Context-Based Augmented Descriptor* at Universit Blaise Pascal - Clermont-Ferrand II, candidate Samir Khoualed
- **Fellowships**
 - **IAPR Fellow** since 2022
 - **Member of the ELLIS society** (European Laboratory for Learning and Intelligent Systems)
 - **Member of IEEE** and Associazione Italiana per la ricerca in Computer Vision, Pattern recognition e machine Learning (CVPL)
 - **Awards**
 - **CVPR 2026 Compute Transparency Champion Award** (highest recognition in the CVPR 2026 Compute Reporting Initiative) for the paper "StructXLIP: Enhancing Vision-Language Models with Multimodal Structural Cues" (Zanxi Ruan, Songqun Gao, Qiuyu Kong, Yiming Wang, Marco Cristani), Denver, Colorado, June 2026.
 - **Outstanding Paper Award**, *Interactive Human-centric Foundation Models Workshop*, ICCV 2025, for the paper: Collaborative Instance Object Navigation: Leveraging Uncertainty-Awareness to Minimize Human-Agent Dialogues (Francesco Taioli, Edoardo Zorzi, Gianni Franchi, Alberto Castellini, Alessandro Farinelli, Marco Cristani, Yiming Wang), Honolulu, Hawaii, October 2025.
 - **Top Reviewer Neurips, 2024**
 - **Outstanding reviewer award** at the *IEEE Conference on Pattern Recognition and Computer Vision CVPR 2024*
 - **Outstanding reviewer award** at the *IEEE Conference on Pattern Recognition and Computer Vision CVPR 2023*
 - **IAPR Fellow, 2022**
 - **Outstanding reviewer award** at the *IEEE Conference on Pattern Recognition and Computer Vision, 2017*

- **Outstanding reviewer award** at the *International Conference on Computer Vision*, 2015
- **Outstanding reviewer award** at the *Asian Conference on Computer Vision*, 2014
- **Best student paper award IBM prize** at *IEEE Conference on Pattern Recognition* 2010, for publication: Loris Bazzani, Michela Farenzena, Alessandro Perina, Vittorio Murino, Marco Cristani (2010). Multiple-shot person re-identification by hpe signature. In: Proceedings of the IEEE International Conference on Pattern Recognition (ICPR). p. 1413-1416, IEEE, ISBN: 9781424475421, Istanbul, August 2010, doi: 10.1109/ICPR.2010.349
- **Best paper award**, at *DEXA Workshop on Interactive Multimodal Pattern Recognition in Embedded Systems*, for publication: Samuele Martelli, Diego Tosato, Michela Farenzena, Marco Cristani, Vittorio Murino (2010). An FPGA-based Classification Architecture on Riemannian Manifolds. In: Proceedings of the International Workshop on Database and Expert Systems Applications (DEXA), 2010. p. 215-220, ISBN: 9781424480494, Bilbao, Spain, September 1, 2010, doi: 10.1109/DEXA.2010.56
- **Best poster presentation award**, at *IEEE International Conference on Image Analysis and Processing (ICIAP 2007)*, for publication: Manuele Bicego, Marco Cristani, Vittorio Murino (2007). Sparseness Achievement with Hidden Markov Models for 2D shape analysis. In: IEEE International Conference on Image Analysis and Processing, proceedings. p. 62-72, IEEE COMPUTER SOC, ISBN: 9780769528779, Modena, IT, September 10-14 2007, doi: 10.1109/ICIAP.2007.4362759

- **Research grants**

As a principal investigator, I collected overall 1.8Meuro. My research grants are summarized as follows:

Date granted	Funding Body	Title	Amount received
2024-2026	Cariverona foundation	FINAL LAP - FINALizzazione intelligente dei materiali LAPidei derivanti da taglio	95K
2022-2024	MIMIT	Inest CC1 - Business Incubation/Acceleration	113K
2021-2025	University of Verona PhD	grants for National PhD in AI for Industry 4.0	312K
2019-2022	Regione Veneto	SAFE PLACE Sistemi IoT per ambienti di vita salubri e sicuri	170K
2020-2021	Embedded Vision Systems s.r.l,	"Studio e sviluppo di metodi per l'adattamento di sistemi di riconoscimento a nuovi contesti operativi"	20K
2019-2021	MIUR	I-MALL - improving the customer experience in stores by intelligent computer vision	187K
2019-2020	Embedded Vision Systems s.r.l,	"Studio di tecniche di domain adaptation e loro applicazioni"	20K
2019-2020	UNIVR + Embedded Vision Systems s.r.l,	Embedded Real-Time Human Pose Estimator	30K
2018-2019	The Edge Company s.r.l	"Studio e sviluppo degli algoritmi di visione a supporto delle funzioni di base e avanzate di un sistema	50K

		di monitoraggio dell'avifauna in ambiente aeroportuale detto BCMES"	
2018-2019	Regione Veneto	"VOGUE TROOPER: Studio e Sviluppo di metodi per la prototipazione nel fashion attraverso similarità visuale	54K
2018-2019	Regione Veneto	FAIR-PLAY: studio e sviluppo di nuovi servizi e modelli di marketing 4.0 in ambiente fieristico"	82K
2017-2019	UNIVR + Accord s.r.l,	PHOTO2FIT: Automatic street-to-shop recommender	30K
2017-2018	Donatoni High Innovation Stone Machines S.p.A.,	"Progettazione e sviluppo di metodi di visione computazionale per il riconoscimento fine-grained di oggetti"	24K
2017-2018	The Edge Company s.r.l	"Studio di fattibilità e sviluppo di un dimostratore per un sistema di Bird Concentration Monitoring System (BCMS)"	51K
2017-2018	Regione Veneto	"Studio e sviluppo di metodi per la classificazione automatica della qualità dei materiali nei processi di lavorazione del marmo"	30K
2015-2016	Provincia di Verona	"Servizi di progettazione dei totem multimediali interattivi per la "Alta via della montagna veronese"	17K
2015-2017	Embedded Vision Systems s.r.l,	"Studio, sviluppo ed implementazione embedded di algoritmi di classificazione e tracking di pedoni e di cellule ematiche"	35K
2015-2016	Embedded Vision Systems s.r.l	"Studio e sviluppo di algoritmi per il tracking di persone in tempo reale"	22,3K
2015	Embedded Vision Systems s.r.l,	"Studio e sviluppo di un sistema di visione per il controllo processo di macchine industriali"	10K
2015-2019	EU (H2020 s H2020-MSCA-ITN-2015)	Time-lapse understanding of the static and human scene and its lighting (SceneUnderLight)	258K
2015	UNIVR - Cooperint	Registration and Application to Wide Applications in Mapping and Medical Imaging	6,8K
2013-2015	Embedded Vision Systems s.r.l	"Consulenza e supporto allo sviluppo relativi a metodologie tecniche per il riconoscimento, la classificazione, il tracking e la rimozione del background applicate al problema dell'analisi del reclutamento leucocitario"	25K
2013-2015	UNIVR + Embedded Vision Systems s.r.l,	EXternal-InTernal Vision Based Driving Assistance System (EXIT)	34,85K
2013-2014	Istituto Italiano di Tecnologia	Statistical Analysis of Crowd	37,95K
2013	Regione Veneto	Automated Statistical Analysis of Customers by Video Sequences	24K
2012-2013	Embedded Vision Systems s.r.l,	Development of Image Processing Algorithms for FPGA Platforms	32,5K

Publications

In general, I've published 2 books, 59 international journal papers, 185 conference papers, 13 book chapters, for a total of 259 scientific publications.

- According to Google Scholar, I have collected 14629 citations, my H-index is 53, my i10-index is 148;
- According to SCOPUS, I have collected 8959 citations, my H-index is 42.
- Most of my journal papers are Q1;
- As for top-tier conferences (marked * in the following) I published 6 ICCV (1 oral), 9 CVPR (1 oral), 8 ECCV (1 oral), 3 IROS, 3 ACM Multimedia (1 oral), 6 BMVC (2 oral), 1 NEURIPS.

• Books – Edited (2 books)

- *Group and crowd behavior for computer vision*. In Vittorio Murino, Marco Cristani, Shishir Shah and Silvio Savarese, editors. Academic Press, 2017 Hardcover ISBN: 9780128092767
- *Person re-identification*. In Shaogang Gong, Marco Cristani, Shuicheng Yan, and Chen Change Loy, editors, *Advances in Computer Vision and Pattern Recognition*, pages 1–456. Springer, 2014 DOI 10.1007/978-1-4471-6296-4

• Journals (59 articles)

--- 2026 ---

- [IJ-1] Lorenzo Busellato, Federico Cunico, Diego Dall'Alba, Marco Emporio, Andrea Giachetti, Riccardo Muradore, Marco Cristani (2026). *Uncertainty Aware-Predictive Control Barrier Functions: Safer Human-Robot Interaction Through Probabilistic Motion Forecasting*. *Robotics and Autonomous Systems*, Vol. 197, Article 105291, January 2026, DOI: 10.1016/j.robot.2025.105291.
- [IJ-2] Uzair Khan, Dong Seon Cheng, Francesco Setti, Franco Fummi, Marco Cristani, Luigi Capogrosso (2026). *A Comprehensive Survey on Deep Learning-based Predictive Maintenance*. *ACM Transactions on Embedded Computing Systems (TECS)*, Vol. 25, No. 2, Article 25, March 2026, pp. 1-43. ACM. DOI: 10.1145/3732287

--- 2025 ---

- [IJ-3] Geri Skenderi, Hang Li, Jiliang Tang, Marco Cristani (2025), *Graph-level Representation Learning with Joint-Embedding Predictive Architectures*. *Transactions on Machine Learning Research*, Electronic ISSN: 2835-8856, preprint, September 2025
- [IJ-4] Dario Serez, Marco Cristani, Alessio Del Bue, Vittorio Murino, Pietro Morerio (2025), *A Mutual Information Perspective on Multiple Latent Variable Generative Models for Positive View Generation*. *Transactions on Machine Learning Research*, Electronic ISSN: 2835-8856, preprint, September 2025
- [IJ-5] Jinghua Zhang, Chen Li, Marco Cristani, Hongzan Sun, Marcin Grzegorzec, Huiling Chen (2025). *WP-FSCIL: A Well-Prepared Few-shot Class-incremental Learning Framework for Pill Recognition*. *IEEE Journal of Biomedical and Health Informatics*, pp. 1-14, March 2025. DOI: 10.1109/JBHI.2025.3548691.

--- 2024 ---

- [IJ-6] Francesco Taioli, Francesco Giuliani, Yiming Wang, Riccardo Berra, Alberto Castellini, Alessio Del Bue, Alessandro Farinelli, Marco Cristani, Francesco Setti (2024), *Unsupervised Active Visual Search With Monte Carlo Planning Under Uncertain Detections*. IEEE Transactions on Pattern Analysis and Machine Intelligence 46(12): 11047–11058, Electronic ISSN: 1939-3539, DOI: 10.1109/TPAMI.2024.3451994
- [IJ-7] Geri Skenderi, Christian Joppi, Matteo Denitto, Marco Cristani (2024), *Well Googled is Half Done: Multimodal Forecasting of New Fashion Product Sales with Image-based Google Trends*. Journal of Forecasting 43(6): 1982–1997, Electronic ISSN: 1099-131X, DOI: 10.1002/for.3104
- [IJ-8] Federico Cunico, Stefano Aldegheri, Andrea Avogaro, Michele Boldo, Nicola Bombieri, Luigi Capogrosso, Ariel Caputo, Damiano Carra, Stefano Centomo, Dong Seon Cheng, Ettore Cinquetti, Marco Cristani, Mirco De Marchi, Florenc Demrozi, Marco Emporio, Franco Fummi, Luca Geretti, Samuele Germiniani, Andrea Giachetti, Federico Girella, Enrico Martini, Gloria Menegaz, Niek Muijs, Federica Paci, Marco Panato, Graziano Pravadelli, Elisa Quintarelli, Iliaria Siviero, Silvia Francesca Storti, Carlo Tadiello, Cristian Turetta, Tiziano Villa, Nicola Zannone, Davide Quaglia (2024), *Enhancing Safety and Privacy in Industry 4.0: The ICE Laboratory Case Study*. IEEE Access 12: 154570–154599, Electronic ISSN: 2169-3536, DOI: 10.1109/ACCESS.2024.3479411
- [IJ-9] Luigi Capogrosso, Federico Cunico, Dong Seon Cheng, Franco Fummi, Marco Cristani (2024), *A Machine Learning-Oriented Survey on Tiny Machine Learning*. IEEE Access 12: 23406–23426, Electronic ISSN: 2169-3536, DOI: 10.1109/ACCESS.2024.3365349

--- 2023 ---

- [IJ-10] Francesco Giuliani, Geri Skenderi, Marco Cristani, Alessio Del Bue, Yiming Wang (2023), *Leveraging Commonsense for Object Localisation in Partial Scenes*. IEEE Transactions on Pattern Analysis and Machine Intelligence 45(10): 12038–12049, Electronic ISSN: 1939-3539, DOI: 10.1109/TPAMI.2023.3272523
- [IJ-11] Luca Franco, Leonardo Placidi, Francesco Giuliani, Irtiza Hasan, Marco Cristani, Fabio Galasso (2023), *Under the Hood of Transformer Networks for Trajectory Forecasting*. Pattern Recognition 138: 109372, Electronic ISSN: 1873-5142, DOI: 10.1016/j.patcog.2023.109372

--- 2022 ---

- [IJ-12] Ariel Caputo, Marco Emporio, Andrea Giachetti, Marco Cristani, Guido Borghi, Andrea D'Eusanio, Minh-Quan Le, Hai-Dang Nguyen, Minh-Triet Tran, Franziska Ambellan, Moritz Hanik, Ehsan Nava-Yazdani, Christoph von Tycowicz (2022), *SHREC 2022 Track on Online Detection of Heterogeneous Gestures*. Computers & Graphics 107: 241–251, Electronic ISSN: 1873-7684, DOI: 10.1016/j.cag.2022.07.015
- [IJ-13] Alexander Gammernan, Vladimir Vovk, Marco Cristani (2022), *Special Issue on Conformal and Probabilistic Prediction with Applications: Preface*. Pattern Recognition 126: 108561, Electronic ISSN: 1873-5142, DOI: 10.1016/j.patcog.2022.108561

--- 2021 ---

- [IJ-14] Irtiza Hasan, Francesco Setti, Theodore Tsesmelis, Vasileios Belagiannis, Sikandar Amin, Alessio Del Bue, Marco Cristani, Fabio Galasso (2021), *Forecasting People Trajectories and Head Poses by Jointly Reasoning on Tracklets and Vislets*. IEEE Transactions on Pattern Analysis and Machine

--- 2020 ---

- [IJ-15] Marco Cristani, Alessio Del Bue, Vittorio Murino, Francesco Setti, Alessandro Vinciarelli (2020), *The Visual Social Distancing Problem*. IEEE Access 8: 126876-126886, Electronic ISSN: 2169-3536, DOI: 10.1109/ACCESS.2020.3008370
- [IJ-16] Giorgio Roffo, Simone Melzi, Umberto Castellani, Alessandro Vinciarelli, Marco Cristani (2020). *Infinite Feature Selection: A Graph-Based Feature Filtering Approach*. IEEE Transactions on Pattern Analysis and Machine Intelligence. Electronic ISSN: 1939-3539, DOI: 10.1109/TPAMI.2020.3002843
- [IJ-17] Theodore Tsesmelis, Irtiza Hasan, Marco Cristani, Alessio Del Bue, Fabio Galasso. *An integrated light management system with real-time light measurement and human perception*. *Lighting Research and Technology* (accepted 10 July 2020, manuscript ID LRT-19-0187.R1, will be published on late 2020)

--- 2019 ---

- [IJ-18] *Florenc Demrozi*, Ruggero Bacchin, Stefano Tamburin, Marco Cristani, Graziano Pravadelli (2019). *Towards a wearable system for predicting the freezing of gait in people affected by Parkinson's disease*. IEEE Journal Of Biomedical And Health Informatics, vol. First published online: 11 November 2019, p. 1-8, ISSN: 2168-2194, doi: 10.1109/JBHI.2019.2952618
- [IJ-19] Francesco Setti, Marco Cristani (2019). *Evaluating the Group Detection Performance: The GRODE Metrics*. IEEE Transactions on Pattern Analysis and Machine Intelligence 41(3): 566-580 Electronic ISSN: 1939-3539, DOI: 10.1109/TPAMI.2018.2806970

--- 2018 ---

- [IJ-20] Igor Barros Barbosa, Marco Cristani, Barbara Caputo, Aleksander Rognhaugen, Theoharis Theoharis (2018). *Looking beyond appearances: Synthetic training data for deep CNNs in re-identification*. Computer Vision and Image Understanding, vol. 167, p. 50-62, ISSN: 1077-3142, doi: 10.1016/j.cviu.2017.12.002
- [IJ-21] Francesco Setti, Davide Conigliaro, Michele Tobanelli, Marco Cristani (2018). *Count on me: learning to count on a single image*. IEEE Transactions on Circuits and Systems for Video Technology, vol. 28, p. 1798-1806, ISSN: 1051-8215, doi: 10.1109/TCSVT.2017.2656718
- [IJ-22] Simone Melzi, Maks Ovsjanikov, Giorgio Roffo, Marco Cristani, Umberto Castellani (2018). *Discrete time evolution process descriptor for shape analysis and matching*. ACM Transactions on Graphics, vol. 37, p. 1-18, ISSN: 0730-0301, doi: 10.1145/3144454

--- 2017 ---

- [IJ-23] Cristina Segalin, Dong Seon Cheng, Marco Cristani (2017). *Social profiling through image understanding: Personality inference using convolutional neural networks*. Computer Vision and Image Understanding, vol. 156, p. 34-50, ISSN: 1077-3142, doi: 10.1016/j.cviu.2016.10.013
- [IJ-24] *Pietro Lovato*, Marco Cristani, Manuele Bicego (2017). *Soft Ngram representation and modeling for protein remote homology detection*. IEEE/ACM Transactions on Computational Biology and Bioinformatics, vol. 14, p. 1482-1488, ISSN: 1545-5963, doi: 10.1109/TCBB.2016.2595575

- [IJ-25] Francesco Setti, Davide Conigliaro, Paolo Rota, Chiara Bassetti, Nicola Conci, Nicu Sebe, Marco Cristani (2017). *The S-Hock dataset: A new benchmark for spectator crowd analysis*. Computer Vision and Image Understanding, vol. 159, p. 47-58, ISSN: 1077-3142, doi: 10.1016/j.cviu.2017.01.003
- [IJ-26] Cristina Segalin, Alessandro Perina, Marco Cristani, Alessandro Vinciarelli (2017). *The pictures we like are our image: continuous mapping of favorite pictures into self-assessed and attributed personality traits*. IEEE Transactions on Affective Computing, p. 268-285, ISSN: 1949-3045, doi: 10.1109/TAFFC.2016.2516994

--- 2016 ---

- [IJ-27] Marco Crocco, Marco Cristani, Andrea Trucco, Vittorio Murino (2016). *Audio Surveillance: A Systematic Review*. ACM Computing Surveys, vol. 48, p. 1-46, ISSN: 0360-0300, doi: 10.1145/2871183
- [IJ-28] Sebastiano Vascon, Eyasu Z. Mequanint, Marco Cristani, Hayley Hung, Marcello Pelillo, Vittorio Murino (2016). *Detecting conversational groups in images and sequences: A robust game-theoretic approach*. Computer Vision and Image Understanding, vol. 143, p. 11-24, ISSN: 1077-3142, doi: 10.1016/j.cviu.2015.09.012

--- 2015 ---

- [IJ-29] Francesco Setti, Chris Russell, Chiara Bassetti, Marco Cristani (2015). *Formation detection: individuating free-standing conversational groups in images*. PLOS ONE, vol. 10, p. 1-26, ISSN: 1932-6203, doi: 10.1371/journal.pone.0123783
- [IJ-30] Loris Bazzani, Matteo Zanotto, Marco Cristani, Vittorio Murino (2015). *Joint Individual-Group Modeling for Tracking*. IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 37, p. 746-759, ISSN: 0162-8828, doi: 10.1109/TPAMI.2014.2353641
- [IJ-31] Pietro Salvagnini, Federico Pernici, Marco Cristani, Giuseppe Lisanti, Alberto Del Bimbo, Vittorio Murino (2015). *Non-myopic information theoretic sensor management of a single pan-tilt-zoom camera for multiple object detection and tracking*. Computer Vision and Image Understanding, vol. 134, p. 74-88, ISSN: 1077-3142, doi: 10.1016/j.cviu.2014.12.001
- [IJ-32] Alessandro Vinciarelli, Anna Esposito, Elisabeth André, Francesca Bonin, Mohamed Chetouani, Jeffrey F. Cohn, Marco Cristani, Ferdinand Fuhrmann, Elmer Gilmartin, Zakia Hammal, Dirk Heylen, Rene Kaiser, Maria Koutsombogera, Alexandros Potamianos, Steve Renals, Giuseppe Riccardi, Albert Ali Salah (2015). *Open Challenges in Modelling, Analysis and Synthesis of Human Behaviour in Human-Human and Human-Machine Interactions*. Cognitive Computation, vol. 7, p. 397-413, ISSN: 1866-9956, doi: 10.1007/s12559-015-9326-z
- [IJ-33] Dong Seon Cheng, Francesco Setti, Nicola Zeni, Roberta Ferrario, Marco Cristani (2015). *Semantically-driven automatic creation of training sets for object recognition*. Computer Vision and Image Understanding, vol. 131, p. 56-71, ISSN: 1077-3142, doi: 10.1016/j.cviu.2014.07.005

--- 2014 ---

- [IJ-34] Alessandro Tavano, Anna Pesarin, Vittorio Murino, Marco Cristani (2014). *Automatic Conversational Scene Analysis in Children with Asperger Syndrome/High-Functioning Autism and Typically Developing Peers*. PLOS ONE, p. 1-9, ISSN: 1932-6203, doi: 10.1371/journal.pone.0085819
- [IJ-35] Marco San Biagio, Samuele Martelli, Marco Crocco, Marco Cristani, Vittorio Murino (2014). *Encoding structural similarity by cross-covariance tensors for*

image classification. International Journal of Pattern Recognition and Artificial Intelligence, vol. 28, p. N/A, ISSN: 0218-0014, doi: 10.1142/S0218001414600088

- [IJ-36] Pietro Lovato, Manuele Bicego, Cristina Segalin, Alessandro Perina, Nicu Sebe, Marco Cristani (2014). *Faved! Biometrics: Tell Me Which Image You Like and I'll Tell You Who You Are*. IEEE Transactions on Information Forensics and Security, vol. 9, p. 364-374, ISSN: 1556-6013, doi: 10.1109/TIFS.2014.2298370
- [IJ-37] Dong Seon Cheng, Hughes Salamin, Pietro Salvagnini, Marco Cristani, Alessandro Vinciarelli, Vittorio Murino (2014). *Predicting online lecture ratings based on gesturing and vocal behavior*. Journal on Multimodal User Interfaces, p. 1-10, ISSN: 1783-7677, doi: 10.1007/s12193-013-0142-z

--- 2013 ---

- [IJ-38] Diego Tosato, Mauro Spera, Marco Cristani, Vittorio Murino (2013). *Characterizing humans on riemannian manifolds*. IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 35, p. 2-15, ISSN: 0162-8828, doi: 10.1109/TPAMI.2012.263
- [IJ-39] Marco Cristani, R. Raghavendra, Alessio Del Bue, Vittorio Murino (2013). *Human behavior analysis in video surveillance: A Social Signal Processing perspective*. Neurocomputing, p. 1-12, ISSN: 0925-2312, doi: 10.1016/j.neucom.2011.12.038
- [IJ-40] Loris Bazzani, Diego Tosato, Marco Cristani, Michela Farenzena, Giulia Pagetti, Gloria Menegaz, Vittorio Murino (2013). *Social interactions by visual focus of attention in a three-dimensional environment*. Expert Systems, vol. 15, p. 115-127, ISSN: 1468-0394, doi: 10.1111/j.1468-0394.2012.00622.x
- [IJ-41] Loris Bazzani, Marco Cristani, Vittorio Murino (2013). *Symmetry-Driven Accumulation of Local Features for Human Characterization and Re-identification*. Computer Vision and Image Understanding, vol. 117, p. 130-144, ISSN: 1077-3142, doi: 10.1016/j.cviu.2012.10.008

--- 2012 ---

- [IJ-42] Anna Sedda, Valentina Manfredi, Giulia Bottini, Marco Cristani, Vittorio Murino (2012). *Automatic human interaction understanding: lessons from a multidisciplinary approach*. Frontiers in Human Neuroscience, vol. 6, p. 1-3, ISSN: 1662-5161, doi: 10.3389/fnhum.2012.00057
- [IJ-43] Anna Pesarin, Marco Cristani, Vittorio Murino, Vinciarelli Alessandro (2012). *Conversation analysis at work: detection of conflict in competitive discussions through semi-automatic turn-organization analysis*. Cognitive Processing, vol. 13, p. 533-540, ISSN: 1612-4782, doi: 10.1007/s10339-011-0417-9
- [IJ-44] Alessandro Perina, Marco Cristani, Umberto Castellani, Vittorio Murino, Jovic Nebojsa (2012). *Free energy score spaces: using generative information in discriminative classifiers*. IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 34, p. 1249-1262, ISSN: 0162-8828, doi: 10.1109/TPAMI.2011.241
- [IJ-45] Loris Bazzani, Marco Cristani, Alessandro Perina, Vittorio Murino (2012). *Multiple-shot person re-identification by chromatic and epitomic analyses*. Pattern Recognition Letters, vol. 33, p. 898-903, ISSN: 0167-8655, doi: 10.1016/j.patrec.2011.11.016

- [IJ-46] Alessandro Perina, *Nebojsa Jojic*, Marco Cristani, Vittorio Murino (2012). *Stel Component Analysis: joint segmentation, modeling and recognition of objects classes*. International Journal of Computer Vision, vol. 100, p. 241-260, ISSN: 0920-5691, doi: 10.1007/s11263-012-0536-5

--- 2011 ---

- [IJ-47] *Cristani M*, Pesarin A, Drioli C, Perina A, Tavano A, Murino V (2011). Generative Modeling and Classification of Dialogs by a Low-level Turn-taking Feature. PATTERN RECOGNITION, vol. 44, p. 1785-1800, ISSN: 0031-3203, doi: 10.1016/j.patcog.2011.01.013
- [IJ-48] *Bruno Torre*, Matteo Lorenzoni, Manuele Bicego, Marco Cristani, Vittorio Murino, Alberto Diaspro (2011). *Principal Component Analysis In Dynamic Force Spectroscopy*. Git Imaging & Microscopy, vol. 13, p. 26-28, ISSN: 1439-4243
- [IJ-49] Umberto Castellani, Marco Cristani, Vittorio Murino (2011). *Statistical 3D shape analysis by local generative descriptors*. IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 33, p. 2555-2560, ISSN: 0162-8828, doi: 10.1109/TPAMI.2011.85

--- 2010 ---

- [IJ-50] Marco Cristani, Michela Farenzena, Domenico Bloisi, Vittorio Murino (2010). *Background Subtraction for Automated Multisensor Surveillance: A Comprehensive Review*. Eurasip Journal on Advances in Signal Processing, p. 1-24, ISSN: 1687-6172, doi: 10.1155/2010/343057
- [IJ-51] *Bruno Torre*, Manuele Bicego, Marco Cristani, Vittorio Murino, Alberto Diaspro, Roberto Cingolani (2010). *Combination of atomic force microscopy and principal component analysis as a general method for direct recognition of functional and structural domains in nanonocomposite materials (p NA)*. Microscopy Research and Technique, vol. 73, p. 973-981, ISSN: 1097-0029, doi: 10.1002/jemt.20837
- [IJ-52] Alessandro Perina, Marco Cristani, Vittorio Murino (2010). *Learning natural scene categories by selective multi-level feature extraction*. Image and Vision Computing, vol. 28, p. 927-939, ISSN: 0262-8856, doi: 10.1016/j.imavis.2009.11.007

--- 2009 ---

- [IJ-53] Umberto Castellani, Marco Cristani, Alessandro Daducci, Paolo Farace, Pasquina Marzola, Vittorio Murino, Andrea Sbarbati (2009). *DCE-MRI Data Analysis for Cancer Area Classification*. Methods of Information in Medicine, vol. 48, p. 248-253, ISSN: 0026-1270, doi: 10.3414/ME9224
- [IJ-54] Alessandro Perina, Marco Cristani, Luciano Xumerle, Vittorio Murino, Pierfranco Pignatti, Giovanni Malerba (2009). *Fully non-homogeneous hidden Markov model double net: a generative model for haplotype reconstruction and block discovery*. Artificial Intelligence in Medicine, vol. 45, p. 135-150, ISSN: 0933-3657, doi: 10.1016/j.artmed.2008.08.015
- [IJ-55] Marco Cristani, Alessandro Perina, Umberto Castellani, Vittorio Murino (2009). *Geo-located image categorization and location recognition*. Pattern Recognition and Image Analysis, vol. 19, p. 245-252, ISSN: 1054-6618, doi: 10.1134/S1054661809020059

--- 2008 ---

- [IJ-56] Umberto Castellani, Marco Cristani, Simone Fantoni, Vittorio Murino (2008). *Sparse points matching by combining 3D mesh saliency with statistical descriptors*. Computer Graphics Forum, vol. 27, p. 643-652, ISSN: 0167-7055, doi: 10.1111/j.1467-8659.2008.01162.x

- [IJ-57] Umberto Castellani, Marco Cristani, Carlo Combi, Vittorio Murino, Andrea Sbarbati, Pasquina Marzola (2008). *Visual MRI: Merging Information Visualization and non-parametric clustering techniques for MRI data set analysis*. Artificial Intelligence in Medicine, vol. 44, p. 183-199, ISSN: 0933-3657, doi: 10.1016/j.artmed.2008.06.006

--- 2007 ---

- [IJ-58] *Marco Cristani*, Manuele Bicego, Vittorio Murino (2007). *Audio-visual event recognition in surveillance video sequences*. IEEE Transactions on Multimedia, vol. 9, p. 257-267, ISSN: 1520-9210, doi: 10.1109/TMM.2006.886263
- [IJ-59] Manuele Bicego, Marco Cristani, Vittorio Murino (2006). *Unsupervised Scene Analysis: A Hidden Markov Model Approach*. Computer Vision and Image Understanding, vol. 102, p. 22-41, ISSN: 1077-3142, doi: 10.1016/j.cviu.2005.09.001

- **Conference papers (185)** (top-tier conferences are marked * in the following)

--- 2026 ---

- [CP-1] *Qiuyu Kong, Zanxi Ruan, Marco Cristani, Yiming Wang (2026). *Mitigating Saliency Collapse: Robust Saliency-Aware Long-Text Image-Text Alignment*. In Proceedings of the 40th Annual Conference on Neural Information Processing Systems (NeurIPS 2026), Sydney, Australia, 6-12 December 2026 (accepted, proceedings forthcoming).
- [CP-2] *Muhammad Aqeel, Maham Nazir, Marco Cristani, Francesco Setti (2026). *DART: Domain-Agnostic Residual Transfer for Generalist Anomaly Detection*. In Proceedings of the 40th Annual Conference on Neural Information Processing Systems (NeurIPS 2026), Sydney, Australia, 6-12 December 2026 (accepted, proceedings forthcoming).
- [CP-3] Edoardo Zorzi, Francesco Taioli, Yiming Wang, Marco Cristani, Alessandro Farinelli, Alberto Castellini, Loris Bazzani (2026). *Benchmarking Interaction, Beyond Policy: a Reproducible Benchmark for Collaborative Instance Object Navigation*. In Proceedings of the 37th British Machine Vision Conference (BMVC 2026), Lancaster, UK, 23-26 November 2026 (accepted, proceedings forthcoming).
- [CP-4] Uzair Khan, Luigi Capogrosso, Muhammad Aqeel, Francesco Setti, Michele Magno, Marco Cristani (2026). *LIZAD: A Lightweight Zero-Shot Anomaly Detection Framework for Industrial Manufacturing*. In Proceedings of the 2026 IEEE International Conference on Omni-Layer Intelligent Systems (IEEE COINS 2026), Bologna, Italy, 7-9 September 2026 (accepted, proceedings forthcoming).
- [CP-5] Uzair Khan, Luigi Capogrosso, Michele Magno, Franco Fummi, Marco Cristani (2026). *TIPSter: Zero-Shot Anomaly Detection via Language-Steered Anomaly-Informed Patches*. In Proceedings of the 29th Forum on Specification and Design Languages (FDL 2026), Rome, Italy, 9-11 September 2026 (accepted, proceedings forthcoming).
- [CP-6] *Zanxi Ruan, Qiuyu Kong, Songqun Gao, Yiming Wang, Marco Cristani (2026). *StructXLIP: Enhancing Vision-language Models with Multimodal Structural Cues*. IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2026).
- [CP-7] Qiuyu Kong, Shakiba Sharifi, Yiming Wang, Marco Cristani, Zanxi Ruan (2026). *Is SAM3 Ready for Pathology Segmentation?* In Proceedings of the 2026 IEEE International Conference on Image Processing (ICIP 2026), Tampere, Finland, 13-17 September 2026.
- [CP-8] Muhammad Aqeel, Maham Nazir, Uzair Khan, Marco Cristani, Francesco Setti (2026). *Anomaly-Aware Vision-Language Adapters for Zero-Shot Anomaly Detection*. In Proceedings of the 2026 IEEE International Conference on Image Processing (ICIP 2026), Tampere, Finland, 13-17 September 2026.

- [CP-9] Zanxi Ruan, Stefano Gobbo, Luca Cima, Mattia Mondo, Shakiba Sharifi, Enrico Munari, Aldo Scarpa, Omar Shahbaz Khan, Stefán Ólafsson, Andrea Giachetti, Francesco Setti, Yiming Wang, Björn Þór Jónsson, Marco Cristani (2026). *AIDA: AI-Driven Intelligent Diagnostics and Analytics*. ICIAP 2025 Workshops, LNCS 16170, pp. 126-137. Springer. DOI: 10.1007/978-3-032-11381-8_11

--- 2025 ---

- [CP-10] *Federico Girella, Davide Talon, Ziyue Liu, Zanxi Ruan, Yiming Wang, Marco Cristani (2025). *LOTS of Fashion! Multi-Conditioning for Image Generation via Sketch-Text Pairing*. IEEE/CVF International Conference on Computer Vision (ICCV 2025), Oral*
- [CP-11] *Muhammad Aqeel, Shakiba Sharifi, Marco Cristani, Francesco Setti (2025). *Towards real unsupervised anomaly detection via confident meta-learning*. IEEE/CVF International Conference on Computer Vision (ICCV 2025)*
- [CP-12] *Francesco Taioli, Edoardo Zorzi, Gianni Franchi, Alberto Castellini, Alessandro Farinelli, Marco Cristani, Yiming Wang (2025). *Collaborative Instance Object Navigation: Leveraging Uncertainty-Awareness to Minimize Human-Agent Dialogues*. IEEE/CVF International Conference on Computer Vision (ICCV 2025)*
- [CP-13] *Davide Talon, Federico Girella, Ziyue Liu, Marco Cristani, Yiming Wang (2025). *Seeing the Abstract: Translating the Abstract Language for Vision Language Models*. IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025)
- [CP-14] Dario Serez, Marco Cristani, Alessio Del Bue, Vittorio Murino, Pietro Morerio (2025). *Pre-trained Multiple Latent Variable Generative Models are Good Defenders Against Adversarial Attacks*. WACV 2025: 6506–6516.
- [CP-15] Luigi Capogrosso, Enrico Fraccaroli, Marco Cristani, Franco Fummi, Samarjit Chakraborty (2025). *LO-SC: Local-Only Split Computing for Accurate Deep Learning on Edge Devices*. VLSID 2025: 445–450.
- [CP-16] Muhammad Aqeel, Shakiba Sharifi, Marco Cristani, Francesco Setti (2025). *Self-Supervised Iterative Refinement for Anomaly Detection in Industrial Quality Control*. VISIGRAPP (2): VISAPP 2025: 173–183.
- [CP-17] Francesco Biondani, Luigi Capogrosso, Nicola Dall'Ora, Enrico Fraccaroli, Marco Cristani, Franco Fummi (2025). *Human-Centered Digital Twin for Industry 5.0*. DATE 2025: 1–2.
- [CP-18] Tingan Zhu, Prateek Ganguli, Arkaprava Gupta, Shengjie Xu, Luigi Capogrosso, Enrico Fraccaroli, Marco Cristani, Franco Fummi, Samarjit Chakraborty (2025). *Controllers for Edge-Cloud Cyber-Physical Systems*. COMSNETS 2025: 198–206.
- [CP-19] Francesco Biondani, Luigi Capogrosso, Uzair Khan, Nicola Dall'Ora, Enrico Fraccaroli, Domenico Fabio Migliore, Francesco Acerra, Marco Cristani, Franco Fummi (2025). *GAIA: A Comprehensive Pipeline for Enabling Aircraft Digital Twin Creation*. In Proceedings of the 2025 IEEE 34th International Symposium on Industrial Electronics (ISIE 2025), Toronto, Canada, 1-4 June 2025, pp. 1-8. IEEE. DOI: 10.1109/ISIE62713.2025.11124604.
- [CP-20] Francesco Biondani, Luigi Capogrosso, Marco Cristani, Franco Fummi (2025). *From Scratch to Twin: The Design of Your First Human-Centric Digital Twin*. 2025 IEEE 34th International Symposium on Industrial Electronics (ISIE 2025), Toronto, Canada, 1-4 June 2025, pp. 1-7. IEEE.

--- 2024 ---

- [CP-21] Francesco Taioli, Stefano Rosa, Alberto Castellini, Lorenzo Natale, Alessio Del Bue, Alessandro Farinelli, Marco Cristani, Yiming Wang (2024). *I2EDL: Interactive Instruction Error Detection and Localization*. IEEE International

- Conference on Robot and Human Interactive Communication (RO-MAN 2024), pp. 1872–1877
- [CP-22] *Francesco Taioli, Stefano Rosa, Alberto Castellini, Lorenzo Natale, Alessio Del Bue, Alessandro Farinelli, Marco Cristani, Yiming Wang (2024). *Mind the Error! Detection and Localization of Instruction Errors in Vision-and-Language Navigation*. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2024), pp. 12993–13000
- [CP-23] Luigi Capogrosso, Federico Girella, Francesco Taioli, Michele Dalla Chiara, Muhammad Aqeel, Franco Fummi, Francesco Setti, Marco Cristani (2024). *Diffusion-Based Image Generation for In-Distribution Data Augmentation in Surface Defect Detection*. VISIGRAPP (2): VISAPP 2024: 409–416.
- [CP-24] Luigi Capogrosso, Shengjie Xu, Enrico Fraccaroli, Marco Cristani, Franco Fummi, Samarjit Chakraborty (2024). *Learning-Enabled CPS for Edge-Cloud Computing*. SIES 2024: 132–139.
- [CP-25] Luigi Capogrosso, Alvise Vivenza, Andrea Chiarini, Francesco Setti, Marco Cristani (2024). *Exploiting Multimodal Latent Diffusion Models for Accurate Anomaly Detection in Industry 5.0*. Ital-IA 2024: 230–235.
- [CP-26] *Andrea Avogaro, Luigi Capogrosso, Franco Fummi, Marco Cristani (2024). *Exploring 3D Human Pose Estimation and Forecasting from the Robot's Perspective: The HARPER Dataset*. IROS 2024: 5828–5835.
- [CP-27] Luigi Capogrosso, Andrea Toiari, Andrea Avogaro, Uzair Khan, Aditya Jivoji, Franco Fummi, Marco Cristani (2024). *SITUATE: Indoor Human Trajectory Prediction Through Geometric Features and Self-supervised Vision Representation*. ICPR (16) 2024: 364–379.
- [CP-28] Usman Syed, Federico Cunico, Uzair Khan, Eros Radicchi, Francesco Setti, Adolfo Speghini, Paolo Marone, Filiberto Semenzin, Marco Cristani (2024). *Material Synthesis Through Simulations Guided by Machine Learning: A Position Paper*. ICPR (Workshops and Challenges, 5) 2024: 289–303.
- [CP-29] Andrea Avogaro, Luigi Capogrosso, Franco Fummi, Marco Cristani (2024). *Dif4FF: Leveraging Multimodal Diffusion Models and Graph Neural Networks for Accurate New Fashion Product Performance Forecasting*. ICPR (8) 2024: 97–112.
- [CP-30] Luigi Capogrosso, Enrico Fraccaroli, Giulio Petrozziello, Francesco Setti, Samarjit Chakraborty, Franco Fummi, Marco Cristani (2024). *Enhancing Split Computing and Early Exit Applications through Predefined Sparsity*. FDL 2024: 1–8.
- [CP-31] Muhammad Aqeel, Shakiba Sharifi, Marco Cristani, Francesco Setti (2024). *Meta Learning-Driven Iterative Refinement for Robust Anomaly Detection in Industrial Inspection*. ECCV Workshops (4) 2024: 445–460.
- [CP-32] Andrea Toiari, Vittorio Murino, Marco Cristani, Cigdem Beyan (2024). *Upper-Body Pose-Based Gaze Estimation for Privacy-Preserving 3D Gaze Target Detection*. ECCV Workshops (13) 2024: 359–376.
- [CP-33] Andrea Avogaro, Luigi Capogrosso, Franco Fummi, Marco Cristani (2024). *MDiFF: Exploiting Multimodal Score-Based Diffusion Models for New Fashion Product Performance Forecasting*. ECCV Workshops (1) 2024: 337–351.
- [CP-34] Muhammad Aqeel, Shakiba Sharifi, Marco Cristani, Francesco Setti (2024). *Self-supervised Learning for Robust Surface Defect Detection*. DeLTA (2) 2024: 164–177.
- [CP-35] *Luigi Capogrosso, Enrico Fraccaroli, Samarjit Chakraborty, Franco Fummi, Marco Cristani (2024). *MTL-Split: Multi-Task Learning for Edge Devices using Split Computing*. DAC 2024: 261:1–261:6.
- [CP-36] Federico Girella, Ziyue Liu, Franco Fummi, Francesco Setti, Marco Cristani, Luigi Capogrosso (2024). *Leveraging Latent Diffusion Models for Training-Free in-Distribution Data Augmentation for Surface Defect Detection*. CBMI 2024: 1–7.

--- 2023 ---

- [CP-37] Dario Serez, Marco Cristani, Vittorio Murino, Alessio Del Bue, Pietro Morerio (2023). *Enhancing Hierarchical Vector Quantized Autoencoders for Image Synthesis Through Multiple Decoders*. ICIAP (2) 2023: 393–405.
- [CP-38] Andrea Toaiari, Federico Cunico, Francesco Taioli, Ariel Caputo, Gloria Menegaz, Andrea Giachetti, Giovanni Maria Farinella, Marco Cristani (2023). *SCENE-pathy: Capturing the Visual Selective Attention of People Towards Scene Elements*. ICIAP (1) 2023: 352–363.
- [CP-39] Francesco Taioli, Federico Cunico, Federico Girella, Riccardo Bologna, Alessandro Farinelli, Marco Cristani (2023). *Language-enhanced RNR-Map: Querying Renderable Neural Radiance Field maps with natural language*. ICCV (Workshops) 2023: 4671–4676.
- [CP-40] Luigi Capogrosso, Alessio Mascolini, Federico Girella, Geri Skenderi, Sebastiano Gaiardelli, Nicola Dall’Ora, Francesco Ponzio, Enrico Fraccaroli, Santa Di Cataldo, Sara Vinco, Enrico Macii, Franco Fummi, Marco Cristani (2023). *Neuro-Symbolic Empowered Denoising Diffusion Probabilistic Models for Real-Time Anomaly Detection in Industry 4.0: Wild-and-Crazy-Idea Paper*. FDL 2023: 1–4.
- [CP-41] Luigi Capogrosso, Luca Geretti, Marco Cristani, Franco Fummi, Tiziano Villa (2023). *HermesBDD: A Multi-Core and Multi-Platform Binary Decision Diagram Package*. DDECS 2023: 87–90.
- [CP-42] Luigi Capogrosso, Federico Cunico, Michele Lora, Marco Cristani, Franco Fummi, Davide Quaglia (2023). *Split-Et-Impera: A Framework for the Design of Distributed Deep Learning Applications*. DDECS 2023: 39–44.
- [CP-43] Cristian Turetta, Geri Skenderi, Luigi Capogrosso, Florenc Demrozi, Philipp H. Kindt, Alejandro Masrur, Franco Fummi, Marco Cristani, Graziano Pravadelli (2023). *Towards Deep Learning-based Occupancy Detection Via WiFi Sensing in Unconstrained Environments*. DATE 2023: 1–6.
- [CP-44] Federico Cunico, Luigi Capogrosso, Alberto Castellini, Francesco Setti, Patrik Pluchino, Filippo Zordan, Valeria Santus, Anna Spagnolli, Stefano Cordibella, Giambattista Gennari, Mauro Borgo, Alberto Sozza, Stefano Troiano, Roberto Flor, Andrea Zanella, Alessandro Farinelli, Luciano Gamberini, Marco Cristani (2023). *The Post-pandemic Effects on IoT for Safety: The Safe Place Project*. DATE 2023: 1–4.
- [CP-45] Federico Cunico, Federico Girella, Andrea Avogaro, Marco Emporio, Andrea Giachetti, Marco Cristani (2023). *OO-dMVM: A Deep Multi-view Multi-task Classification Framework for Real-time 3D Hand Gesture Classification and Segmentation*. CVPR Workshops 2023: 2745–2754.
- [CP-46] Marco Emporio, Ariel Caputo, Deborah Pintani, Federico Cunico, Federico Girella, Andrea Avogaro, Marco Cristani, Andrea Giachetti (2023). *Demo: gesture based interaction with the Hololens 2*. CHIItaly 2023: 59:1–59:2.

--- 2022 ---

- [CP-47] *Christian Joppi, Geri Skenderi, Marco Cristani (2022). *POP: Mining POtential Performance of New Fashion Products via Webly Cross-modal Query Expansion*. In: Computer Vision – ECCV 2022. Lecture Notes in Computer Science, vol. 13698, pp. 34–50
- [CP-48] *Alessio Sampieri, Guido Maria D’Amely di Melendugno, Andrea Avogaro, Federico Cunico, Francesco Setti, Geri Skenderi, Marco Cristani, Fabio Galasso (2022). *Pose Forecasting in Industrial Human-Robot Collaboration*. In: Computer Vision – ECCV 2022. Lecture Notes in Computer Science, vol. 13698, pp. 51–69
- [CP-49] *Francesco Giuliari, Geri Skenderi, Marco Cristani, Yiming Wang, Alessio Del Bue (2022). *Spatial Commonsense Graph for Object Localisation in Partial Scenes*. IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022).
- [CP-50] Marco Godi, Christian Joppi, Geri Skenderi, Marco Cristani (2022). *MovingFashion: a Benchmark for the Video-to-Shop Challenge*. WACV 2022: 517–525.

- [CP-51] Martina Capuzzo, Andrea Zanella, Maddalena Zuccotto, Federico Cunico, Marco Cristani, Alberto Castellini, Alessandro Farinelli, Luciano Gamberini (2022). *IoT Systems for Healthy and Safe Life Environments*. RTSI 2022: 31–37.
- [CP-52] Federico Becattini, Giuseppe Becchi, Andrea Ferracani, Alberto Del Bimbo, Liliana Lo Presti, Giuseppe Mazzola, Marco La Cascia, Federico Cunico, Andrea Toaiari, Marco Cristani, Antonio Greco, Alessia Saggese, Mario Vento (2022). *I-MALL An Effective Framework for Personalized Visits. Improving the Customer Experience in Stores*. MCFR@MM 2022: 11–19.
- [CP-53] Federico Cunico, Luigi Capogrosso, Francesco Setti, Damiano Carra, Franco Fummi, Marco Cristani (2022). *I-SPLIT: Deep Network Interpretability for Split Computing*. ICPR 2022: 2575–2581.
- [CP-54] Luigi Capogrosso, Geri Skenderi, Federico Girella, Franco Fummi, Marco Cristani (2022). *Toward Smart Doors: A Position Paper*. ICPR Workshops (2) 2022: 660–673.
- [CP-55] Geri Skenderi, Christian Joppi, Matteo Denitto, Marco Cristani (2022). *On the Use of Learning-Based Forecasting Methods for Ameliorating Fashion Business Processes: A Position Paper*. ICPR Workshops (2) 2022: 647–659.
- [CP-56] Federico Cunico, Andrea Toaiari, Marco Cristani (2022). *A Masked Face Classification Benchmark on Low-Resolution Surveillance Images*. ICPR Workshops (1) 2022: 49–63.
- [CP-57] Geri Skenderi, Christian Joppi, Matteo Denitto, Berniero Scarpa, Marco Cristani (2022). *The multi-modal universe of fast-fashion: the Visuelle 2.0 benchmark*. CVPR Workshops 2022: 2240–2245.

--- 2021 ---

- [CP-58] Geri Skenderi, Alessia Bozzini, Luigi Capogrosso, Enrico Carlo Agrillo, Giovanni Perbellini, Franco Fummi, Marco Cristani (2021). *DOHMO: Embedded Computer Vision in Co-Housing Scenarios*. FDL 2021: 1–8
- [CP-59] *Francesco Giuliani, Alberto Castellini, Riccardo Berra, Alessio Del Bue, Alessandro Farinelli, Marco Cristani, Francesco Setti, Yiming Wang: *POMP++: Pomcp-based Active Visual Search in unknown indoor environments*. IROS 2021: 1523-1530

--- 2020 ---

- [CP-60] *Valentina Sanguineti, Pietro Morerio, Nicolò Pozzetti, Danilo Greco, Marco Cristani, Vittorio Murino (2020). *Leveraging Acoustic Images for Effective Self-Supervised Audio Representation Learning*. European Conference Computer Vision ECCV 2020, 23-28 Aug, virtual conference (accepted, will be published this year, acceptance rate 27.1%)
- [CP-61] *Francesco Giuliani, Riccardo Berra, Yiming Wang, Alberto Castellini, Francesco Setti, Alessandro Farinelli, Alessio Del Bue, Marco Cristani, Francesco Setti. *POMP: Pomcp-based Online Motion Planning for active visual search in indoor environments*. British Machine Vision and Applications BMVC 2020, 7-10 Sept (accepted, will be published this year)

--- 2019 ---

- [CP-62] Federico Cunico, Marco Carletti, Marco Cristani, Fabio Masci, Davide Conigliaro (2019). *6D Pose Estimation for Industrial Applications*. In: *Image Analysis and Processing – ICIAP 2019*. Lecture Notes In Artificial Intelligence, vol. 11808, p. 374-384, ISBN: 978-3-030-30753-0, ISSN: 0302-9743, Trento (TN), Italy, 9-13 September 2019, doi: 10.1007/978-3-030-30754-7_37
- [CP-63] Riccardo Berra, Francesco Setti, Marco Cristani (2019). *Gaze-Based Human-Robot Interaction by the Brunswick Model*. In: *Image Analysis and Processing – ICIAP 2019*. lecture notes in artificial intelligence, vol. 11752, p. 511-521, ISBN: 978-3-030-30644-1, ISSN: 0302-9743, Trento, Italy, Sept. 2019, doi: 10.1007/978-3-030-30645-8_47

- [CP-64] Nicolò Lanza, Alessandro Romeo, Marco Cristani, Francesco Setti (2019). *Grain Segmentation in Atomic Force Microscopy for Thin-Film Deposition Quality Control*. In: New Trends in Image Analysis and Processing – ICIAP 2019. vol. 11808, p. 385-394, ISBN: 978-3-030-30753-0, Trento, Italy, Sept. 2019, doi: 10.1007/978-3-030-30754-7_38
- [CP-65] Martina Gentilin, Pietro Lovato, Gloria Menegaz, Marco Cristani, Marco Minozzo (2019). *Graph-based clustering of visitors' trajectories at exhibitions*. In: CLADAG 2019, 12th Scientific Meeting of the Classification and Data Analysis Group (CLADAG) of the Italian Statistical Society (SIS). p. 227-230, Cassino, 11-13 September 2019
- [CP-66] Christian Joppi, Marco Godi, Andrea Giachetti, Fabio Pellacini, Marco Cristani (2019). *Texture Retrieval in the Wild Through Detection-Based Attributes*. In: Image Analysis and Processing -- ICIAP 2019. p. 522-533, Springer International Publishing, ISBN: 978-3-030-30645-8, Trento, Sept 2019
- [CP-67] Yiming Wang, Marco Carletti, Francesco Setti, Marco Cristani, Alessio Del Bue (2019). *Active 3D Classification of Multiple Objects in Cluttered Scenes*. In Proceedings of the IEEE International Conference on Computer Vision Workshops ICCW Electronic ISSN: 2473-9944, DOI: 10.1109/ICCVW.2019.00318
- [CP-68] Riccardo Berra, Francesco Setti, Marco Cristani (2019). *Berrick: a low-cost robotic head platform for human-robot interaction*. In 2019 IEEE International Conference on Systems, Man and Cybernetics (SMC) (pp. 559-566). IEEE. Electronic ISSN: 2577-1655 DOI: 10.1109/SMC.2019.8913932
- [CP-69] Irtiza Hasan, Theodoros Tsismelis, Marco Cristani, Alessio Del Bue, Fabio Galasso (2018). *Human-centric light sensing and estimation from RGBD images: The invisible light switch*. In: WACV 2019 – IEEE Winter Conf. on Applications of Computer Vision. p. 1-10, Waikoloa Village, Hawaii, US, January 8-10, 2019 (acceptance rate 39%)
- [CP-70] Theodore Tsismelis, Irtiza Hasan, Marco Cristani, Fabio Galasso, Alessio Del Bue. *RGBD2lux: Dense light intensity estimation with an RGBD sensor*. In: WACV 2019 – IEEE Winter Conf. on Applications of Computer Vision. p. 1-10, Waikoloa Village, Hawaii, January 8-10, 2019, Electronic ISBN: 978-1-7281-1975-5 , DOI: 10.1109/WACV.2019.00059

--- 2018 ---

- [CP-71] Irtiza Hasan, Francesco Setti, Theodore Tsismelis, Alessio Del Bue, Marco Cristani, Fabio Galasso (2018). *"Seeing is Believing": Pedestrian Trajectory Forecasting Using Visual Frustum of Attention*. In: Proceedings of the 2018 IEEE Winter Conference on Applications of Computer Vision (WACV). p. 1178-1185, ISBN: 978-1-5386-4886-5, Lake Tahoe, March 2018, doi: 10.1109/WACV.2018.00134 (acceptance rate 40%)
- [CP-72] Andrea Roberti, Riccardo Muradore, Paolo Fiorini, Marco Cristani, Francesco Setti (2018). *An energy saving approach to active object recognition and localization*. In: 44th Annual Conference of the IEEE Industrial Electronics Society, The IECON 2018. p. 3153-3158, Washington D.C., USA, October 21-23, 2018
- [CP-73] Marco Carletti, Marco Cristani, Valentina Cavedon, Chiara Milanese, Carlo Zancanaro, Andrea Giachetti (2018). *Analyzing body fat from depth images*. In: 2018 International Conference on 3D Vision (3DV 2018). p. 418-425, IEEE, ISBN: 978-1-5386-8425-2, Verona, 5-8 Sept. 2018, doi: 10.1109/3DV.2018.00055
- [CP-74] Christian Joppi, Pietro Lovato, Gloria Menegaz, Marco Cristani (2018). *From Web to Physical and Back: WP User Profiling with Deep Learning*. In: Current Trends in Web Engineering. LECTURE NOTES IN COMPUTER SCIENCE, vol. 11153, p. 126-135, ISBN: 978-3-030-03055-1, ISSN: 0302-9743, Caceres, Spain, Jun 2018, doi: 10.1007/978-3-030-03056-8_11
- [CP-75] *Irtiza Hasan, Francesco Setti, Theodore Tsismelis, Alessio Del Bue, Fabio Galasso, Marco Cristani (2018). *MX-LSTM: Mixing Tracklets and Vislets to*

- Jointly Forecast Trajectories and Head Poses*. In: Proceedings of the 2018 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR2018) p. 6067-6076, Salt Lake City, June 2018, doi: 10.1109/CVPR.2018.00635 (spotlight presentation, acceptance rate 8.9%)
- [CP-76] Marco Cristani, Matteo Cristani, Anna Pesarin, Claudio Tomazzoli, Margherita Zorzi (2018). *Making sentiment analysis algorithms scalable*. In: Proceedings 4th International Workshop on Knowledge Discovery on the Web. LECTURE NOTES IN COMPUTER SCIENCE, vol. 11153, p. 136-147, Springer, ISSN: 1611-3349, Cáceres, Spain, 5th june, doi: 10.1007/978-3-030-03056-8_12
- [CP-77] *Andrea Roberti, Marco Carletti, Francesco Setti, Umberto Castellani, Paolo Fiorini, Marco Cristani (2018). *Recognition self-awareness for active object recognition on depth images*. In: Proceedings of the British Machine Vision Conference 2018, BMVC 2018. p. 1-12, Northumbria University, Newcastle, UK, September 3-6, 2018 (acceptance rate 29.5%)
- [CP-78] *Marco Carletti, Marco Godi, Maedeh Aghaei, Marco Cristani (2018). *Understanding Deep Architectures by Interpretable Visual Summaries*. In: Proceedings of the British Machine Vision Conference 2018, BMVC 2018. p. 1-12, Northumbria University, Newcastle, UK, September 2018

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- [CP-79] Maedeh Aghaei, Federico Parezzan, Mariella Dimiccoli, Petia Radeva, Marco Cristani (2017). *Clothing and People - A Social Signal Processing Perspective*. In: Proceedings of the 2017 12th IEEE International Conference on Automatic Face & Gesture Recognition (FG 2017). p. 532-537, ISBN: 978-1-5090-4023-0, Washington, DC, DC, USA, May 30, 2017 to June 3, 2017, doi: 10.1109/FG.2017.71
- [CP-80] Sadegh Mohammadi, Francesco Setti, Alessandro Perina, Marco Cristani, Vittorio Murino (2017). *Groups and Crowds: Behaviour Analysis of People Aggregations*. In: International Joint Conference on Computer Vision, Imaging and Computer Graphics. vol. 693, p. 3-32, ISBN: 978-3-319-64869-9, Rome, Italy, 27 February 2016 through 29 February 2016, doi: 10.1007/978-3-319-64870-5_1
- [CP-81] Marco Godi, Maedeh Aghaei, Mariella Dimiccoli, Marco Cristani (2017). *Wearable for Wearable*. In: Proceeding WearMMe '17 Proceedings of the 2017 Workshop on Wearable MultiMedia. p. 5-9, ISBN: 9781450350334, Bucharest, Romania, June 06 - 06, 2017, doi: 10.1145/3080538.3080540
- [CP-82] *Cristina Segalin, Fabio Celli, Luca Polonio, Michal Kosinski, David Stillwell, Nicu Sebe, Marco Cristani, Bruno Lepri (2017). *What your Facebook Profile Picture Reveals about your Personality*. In: Proceedings of the 2017 ACM on Multimedia Conference. p. 460-468, ISBN: 9781450349062, Mountain View, California, October 23 - 27, 2017, doi: 10.1145/3123266.3123331 (oral presentation 7% acceptance rate)

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- [CP-83] Silvia Obertino, Lorenza Brusini, Ilaria Boscolo Galazzo, Mauro Zucchelli, Cristina Granziera, Marco Cristani, Gloria Menegaz (2016). *SHORE-based biomarkers allow patients versus control classification in stroke*. In: Proceedings of the IEEE International Symposium on Biomedical Imaging, from Nano to Macro. p. 1097-1100, Prague, Czech Republic, April 13-16, 2016, doi: 10.1109/ISBI.2016.7493457
- [CP-84] Marco Carletti, Diego Dall'Alba, Marco Cristani, Paolo Fiorini (2016) *A Robust Particle Filtering Approach with Spatially-dependent Template Selection for Medical Ultrasound Tracking Applications*. VISIGRAPP (3: VISAPP) 2016: 524-533 ISBN: 978-989-758-175-5 , DOI: 10.5220/0005725505220531

--- 2015 ---

- [CP-85] Sami Abduljalil Abdulhak, Walter Riviera, Marco Cristani (2015). *Crowdsearching Training Sets for Image Classification*. In: Lecture Notes in

Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). vol. 9279, p. 192-202, ISBN: 978-3-319-23230-0, Genoa; Italy, 7 September 2015 through 11 September 2015, doi: 10.1007/978-3-319-23231-7_18

- [CP-86] Daniele Tasson, Alessio Montagnini, Roberto Marzotto, Michela Farenzena, Marco Cristani (2015). *FPGA-based pedestrian detection under strong distortions*. In: IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops. p. 65-70, ISBN: 978-1-4673-6759-2, Boston; United States, 7 June 2015 through 12 June 2015, doi: 10.1109/CVPRW.2015.7301368
- [CP-87] *Giorgio Roffo, Simone Melzi, Marco Cristani (2015). *Infinite Feature Selection*. In: Proceedings of the 2015 IEEE International Conference on Computer Vision (ICCV). p. 4202-4210, IEEE, ISBN: 978-1-4673-8391-2, Chile, Santiago, December 2015, doi: 10.1109/ICCV.2015.478 (acceptance rate 30.9%)
- [CP-88] Sami Abduljalil Abdulhak, Walter Riviera, Nicola Zeni, Matteo Cristani, Roberta Ferrario, Marco Cristani (2015). *Semantic-Analysis Object Recognition: Automatic Training Set Generation Using Textual Tags*. In: Proceedings of the 13th European Conference on Computer Vision, ECCV workshops 2014. LECTURE NOTES IN COMPUTER SCIENCE, vol. 8926, p. 309-322, ISBN: 978-3-319-16180-8, ISSN: 1611-3349, Zurigo, 6 September 2014 through 12 September 2014, doi: 10.1007/978-3-319-16181-5_22
- [CP-89] Francesco Setti, Marco Cristani (2015). *The GRODE metrics: Exploring the performance of group detection approaches*. In: IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops. p. 36-42, ISBN: 978-1-4673-6759-2, Boston; United States, 7 June 2015 through 12 June 2015, doi: 10.1109/CVPRW.2015.7301281
- [CP-90] *Davide Conigliaro, Paolo Rota, Francesco Setti, Chiara Bassetti, Nicola Conci, Nicu Sebe, Marco Cristani (2015). *The S-HOCK dataset: Analyzing crowds at the stadium*. In: Proceedings of the 2015 IEEE Conference on Computer Vision and Pattern Recognition (CVPR). vol. 1, p. 2039-2047, ISBN: 978-1-4673-6964-0, Boston, June 2015, doi: 10.1109/CVPR.2015.7298815 (acceptance rate 28.3%)

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- [CP-91] Sebastiano Vascon, Eyasu Zemene Mequanint, Marco Cristani, Hayley Hung, Marcello Pelillo, Vittorio Murino (2014). *A Game-Theoretic Probabilistic Approach for Detecting Conversational Groups*. In: Computer Vision -- ACCV 2014. p. 1-14, Singapore, 1-7 November 2014, doi: 10.1007/978-3-319-16814-2_43 (acceptance rate 27.9%)
- [CP-92] Cristina Segalin, Alessandro Perina, Marco Cristani (2014). *biometrics on visual preferences: a "pump and distill" regression approach*. In: Image Processing (ICIP), 2014 IEEE International Conference on. p. 1-5, Paris, France, 27-30 October 2014 DOI: 10.1109/ICIP.2014.7026009
- [CP-93] Roffo Giorgio, Cinzia Giorgetta, Roberta Ferrario, Marco Cristani (2014). *Just the Way You Chat: Linking Personality, Style and Recognizability in Chats*. In: Human Behavior Understanding. vol. 8749, p. 30-41, Switzerland:Springer International Publishing, ISBN: 978-3-319-11838-3, Zurigo, September 6, doi: 10.1007/978-3-319-11839-0_3
- [CP-94] Cristina Segalin, Alessandro Perina, Marco Cristani (2014). *Personal Aesthetics for Soft Biometrics: A Generative Multi-resolution Approach*. In: Proceedings of the 16th International Conference on Multimodal Interaction (ICMI). p. 180-187, New York, NY, USA:ACM, Istanbul, Turkey, 2014, doi: 10.1145/2663204.2663259
- [CP-95] Cristina Segalin, Alessandro Perina, Marco Cristani (2014). *Recognizing People by Their Personal Aesthetics: A Statistical Multi-level Approach*. In: Computer Vision -- ACCV 2014. p. 1-14, Singapore, 1-7 November 2014

- [CP-96] Roffo Giorgio, Marco Cristani (2014). *Statistical Analysis of Personality and Identity in Chats Using a Keylogging Platform*. In: International Conference on Multimodal Interaction. p. 224-231, New York:ACM, ISBN: 978-1-4503-2885-2, Istanbul, November 12, doi: 10.1145/2663204.2663272
- [CP-97] Marco Cristani, Ferrario, Roberta (2014). *Statistical Pattern Recognition Meets Formal Ontologies*. In: RFMIR 2014 - Proceedings of the 2014 ACM Roadmapping the Future of Multimodal Interaction Research Including Business Opportunities and Challenges. p. 23-25, ISBN: 9781450306157, Istanbul; Turkey;, 16 November 2014 through 16 November 2014, doi: 10.1145/2666253.2666254
- [CP-98] Marco San Biagio, Loris Bazzani, Marco Cristani, Vittorio Murino (2014). *Weighted bag of visual words for object recognition*. In: 2014 IEEE International Conference on Image Processing (ICIP). p. 2734-2738, Paris, France, 27-30 Oct. 2014, doi: 10.1109/ICIP.2014.7025553

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- [CP-99] Francesco Setti, Dong Seon Cheng, Sami Abduljalil Abdulhak, Roberta Ferrario, Marco Cristani (2013). *"Tell Me More": How Semantic Technologies Can Help Refining Internet Image Search*. In: VIGTA '13. p. 1-6, ACM, ISBN: 9781450321693, St. Petersburg, Russia, July 15, 2013
- [CP-100] Davide Conigliaro, Francesco Setti, Chiara Bassetti, Roberta Ferrario, Marco Cristani (2013). *ATTENTO: ATTENTION Observed for Automated Spectator Crowd Analysis*. In: Human Behavior Understanding. vol. 8212, p. 102-111, ISBN: 9783319027135, Barcelona, Spain, October 22, 2013, doi: 10.1007/978-3-319-02714-2_9
- [CP-101] Francesco Setti, Hayley Hung, Marco Cristani (2013). *Group detection in still images by F-formation modeling: A comparative study* 2013 14th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS) p. 1-4, ISBN: 9781479908332, Paris, France, 3-5 july 2013, doi: 10.1109/WIAMIS.2013.6616147
- [CP-102] *Marco San Biagio, Marco Crocco, Marco Cristani, Samuele Martelli, Vittorio Murino (2013). *Heterogeneous Auto-similarities of Characteristics (HASC): Exploiting Relational Information for Classification*. In: Proceedings of the Computer Vision (ICCV), 2013 IEEE International Conference on. Proceedings Ieee International Conference On Computer Vision, vol. 1, p. 809-816, Los alamos:IEEE, ISBN: 978-1-4799-2840-8, ISSN: 1550-5499, Sidney, Australia, December, doi: 10.1109/ICCV.2013.105 (acceptance rate 27.9%)
- [CP-103] Francesco Setti , Oswald Lanz, Roberta Ferrario, Vittorio Murino, Marco Cristani (2013). *Multi-scale f-formation discovery for group detection*. In: 2013 IEEE International Conference on Image Processing. p. 3547-3551, Melbourne, VIC, Australia, 15-18 Sept. 2013, doi: 10.1109/ICIP.2013.6738732
- [CP-104] Daniele Porello, Francesco Setti, Roberta Ferrario, Marco Cristani (2013). *Multiagent socio-technical systems. An ontological approach*. In: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). p. 1-15, St. Paul, Minnesota, 6 May 2013, doi: 10.1007/978-3-319-07314-9_3
- [CP-105] Giorgio Roffo, Cristina Segalin, Alessandro Vinciarelli, Vittorio Murino, Marco Cristani (2013). *Reading between the turns: Statistical modeling for identity recognition and verification in chats*. In: 2013 10th IEEE International Conference on Advanced Video and Signal Based Surveillance. p. 99-104, ISBN: 9781479907038, Krakow, Poland, 27-30 August 2013, doi: 10.1109/AVSS.2013.6636623
- [CP-106] Dario Figueira, Loris Bazzani, Ha Quang Minh, Marco Cristani, Alexandre Bernardino, Vittorio Murino (2013). *Semi-supervised multi-feature learning for person re-identification*. In: 2013 10th IEEE International Conference on

- Advanced Video and Signal Based Surveillance. p. 111-116, ISBN: 9781479907038, Krakow, 27-30 Aug, doi: 10.1109/AVSS.2013.6636625
- [CP-107] Giorgio Roffo, Marco Cristani, Frank Pollick, Cristina Segalin, Vittorio Murino (2013). *Statistical Analysis of Visual Attentional Patterns for Video Surveillance*. In: Lecture Notes in Computer Science - Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications. vol. 8259, p. 520-527, ISBN: 9783642418266, Havana, Cuba, November 20-23, 201, doi: 10.1007/978-3-642-41827-3_65
- [CP-108] Pietro Lovato, Alessandro Perina, Nicu Sebe, Omar Zandonà, Alessio Montagnini, Manuele Bicego, and Marco Cristani. (2013). *Tell me what you like and ill tell you what you are: Discriminating visual preferences on Flickr data*. In: Computer Vision - ACCV 2012, Lecture Notes in Computer Science. vol. 7724, p. 45-56, Springer, ISBN: 9783642373305, Dejeon, South Korea, November 5-9 2012, doi: 10.1007/978-3-642-37331-2_4 (acceptance rate 23%)
- [CP-109] Cristina Segalin, Anna Pesarin, Alessandro Vinciarelli, Monja Tait, Marco Cristani (2013). *The expressivity of turn-taking: Understanding children pragmatics by hybrid classifiers*. In: Image Analysis for Multimedia Interactive Services (WIAMIS), 2013 14th International Workshop on. p. 1-4, Paris, France, 3-5 July 2013
- [CP-110] Giorgio Roffo, Marco Cristani, Loris Bazzani, Ha Quang Minh, Vittorio Murino (2013). *Trusting Skype: Learning the Way People Chat for Fast User Recognition and Verification*. In: ICCV Workshops. p. 748-754, IEEE, Sydney, December 2013, doi: 10.1109/ICCVW.2013.102
- [CP-111] *Marco Cristani, Alessandro Vinciarelli, Cristina Segalin, Alessandro Perina (2013). *Unveiling the multimedia unconscious: implicit cognitive processes and multimedia content analysis*. In: Proceedings of the 21st ACM international conference on Multimedia. p. 213-222, Barcelona, Spain, 2013. DOI: 10.1145/2502081.2502280 (Brand new idea paper, and general acceptance rate 20%)
- [CP-112] Davide Conigliaro, Francesco Setti, Chiara Bassetti, Roberta Ferrario, Marco Cristani (2013). *Viewing the Viewers: A Novel Challenge for Automated Crowd Analysis*. In: New Trends in Image Analysis and Processing – ICIAP 2013. vol. 8158, p. 517-526, ISBN: 9783642411892, Naples, Italy, September 9-13, 2013, doi: 10.1007/978-3-642-41190-8_56
- [CP-113] Pietro Lovato, Alessandro Perina, Dong Seon Cheng, Cristina Segalin, Nicu Sebe, Marco Cristani (2013). *We like it! Mapping image preferences on the counting grid*. In: Image Processing (ICIP), 2013 20th IEEE International Conference on. p. 1-5, Melbourne, 15 - 18 September, 2013. DOI: 10.1109/ICIP.2013.6738595

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- [CP-114] San Biagio Marco, Aydin Ulas, Crocco Marco, Marco Cristani, Umberto Castellani, Vittorio Murino (2012). *A Multiple Kernel Learning Approach to Multi-Modal Pedestrian Classification*. In: Pattern Recognition (ICPR), 2012 21st International Conference on. p. 1-4, ISBN: 9784990644116, Tsukuba, Japan, November 11-15, 2012
- [CP-115] *Minh Ha Quang, Marco Cristani, Vittorio Murino (2012). *A regularized spectral algorithm for Hidden Markov Models with applications in computer vision*. In: Computer Vision and Pattern Recognition (CVPR), 2012 IEEE Conference on. p. 2384-2391, IEEE, ISBN: 9781467312264, Providence, RI, 16-21 June 2012, doi: 10.1109/CVPR.2012.6247951 (acceptance rate 24%)
- [CP-116] *Marco Cristani, Giorgio Roffo, Cristina Segalin, Loris Bazzani, Alessandro Vinciarelli, Vittorio Murino (2012). *Con conversationally-inspired stylometric features for authorship attribution in instant messaging*. In: Proceedings of ACM Multimedia 2012. p. 1-4, ISBN: 9781450310895, Nara, Japan, 29 October - 2 November (acceptance rate 20%)

- [CP-117] *Loris Bazzani, Marco Cristani, Vittorio Murino (2012). *Decentralized particle filter for joint individual-group tracking*. In: Computer Vision and Pattern Recognition (CVPR), 2012 IEEE Conference on. p. 1886-1893, IEEE, ISBN: 9781467312271, Providence, RI, 16-21 June 2012, doi: 10.1109/CVPR.2012.6247888 (acceptance rate 24%)
- [CP-118] Pietro Lovato, Manuele Bicego, Marco Cristani, Nebojsa Jojic, *Alessandro Perina* (2012). *Feature selection using Counting Grids: application to microarray data*. In: Proc. S+SSPR 2012. vol. 7626, p. 629-637, Springer Berlin Heidelberg, ISBN: 9783642341656, Hiroshima, Japan, November 7-9, 2012, doi: 10.1007/978-3-642-34166-3_69
- [CP-119] Anna Pesarin, Alessandro Vinciarelli, Cristina Segalin, Monja Tait, Giovanni Bilancia, Marco Cristani (2012). *Generative modelling of dyadic conversations: characterization of pragmatic skills during development age*. In: First IAPR Workshop on Multimodal Pattern Recognition of Social Signals in Human Computer Interaction MPRSS 2012. Tsukuba Science City, Japan, 11 November, 2012
- [CP-120] **Enver Sangineto*, Marco Cristani, Alessio Del Bue, Vittorio Murino (2012). *Learning Discriminative Spatial Relations for Detector Dictionaries: An Application to Pedestrian Detection*. In: Computer Vision – ECCV 2012. vol. 2, p. 273-286, Springer Berlin Heidelberg, ISBN: 9783642337086, Florence, Italy, 7-13 October 2012, doi: 10.1007/978-3-642-33709-3_20 (acceptance rate 25%)
- [CP-121] Pietro Salvagnini, Hugues Salamin, Marco Cristani, Alessandro Vinciarelli, Vittorio Murino (2012). *Learning How to Teach from "Videlectures": Automatic Prediction of Lecture Ratings Based on Teacher's Nonverbal Behavior*. In: Cognitive Infocommunications (CogInfoCom), 2012 IEEE 3rd International Conference on. p. 1-5, ISBN: 9781467351867, Kosice, Slovakia, December 2-5, 2012, doi: 10.1109/CogInfoCom.2012.6422017
- [CP-122] Marco San Biagio, Marco Crocco, Marco Cristani, Samuele Martelli, Vittorio Murino (2012). *Low-level multimodal integration on Riemannian manifolds for automatic pedestrian detection*. In: Information Fusion (FUSION), 2012 15th International Conference on. p. 2223-2229, ISBN: 9781467304177, Singapore, 9 - 12 July 2012
- [CP-123] *Matteo Zanotto, Loris Bazzani, Marco Cristani, Vittorio Murino (2012). *Online Bayesian Non-parametrics for Social Group Detection*. In: Proceedings of the British Machine Vision Conference. p. 1-12, BMVA Press, ISBN: 1901725464, Surrey, UK, 3-7 September, doi: 10.5244/C.26.111 (acceptance rate 32%)
- [CP-124] Igor Barros Barbosa, Marco Cristani, Alessio Del Bue, Loris Bazzani, Vittorio Murino (2012). *Re-identification with rgb-d sensors*. In: Computer Vision – ECCV 2012. Workshops and Demonstrations. vol. 7583, p. 433-442, Springer Berlin Heidelberg, ISBN: 9783642338625, Firenze, IT, 7-13 October, 2012, doi: 10.1007/978-3-642-33863-2_43
- [CP-125] Marco San Biagio, Marco Crocco, Marco Cristani (2012). *Recursive segmentation based on higher order statistics in thermal imaging pedestrian detection*. In: Communications Control and Signal Processing (ISCCSP), 2012 5th International Symposium on. p. 1-4, IEEE, ISBN: 9781467302746, Rome, IT, 2-4 May 2012, doi: 10.1109/ISCCSP.2012.6217877
- [CP-126] Martelli Samuele, Marco Cristani, Vittorio Murino (2012). *Stereo-Based Framework for Pedestrian Detection with Partial Occlusion Handling*. In: Advanced Video and Signal-Based Surveillance (AVSS), 2012 IEEE Ninth International Conference on. p. 25-30, IEEE, ISBN: 9781467324991, Beijing, China, 18-21 September, 2012, doi: 10.1109/AVSS.2012.71
- [CP-127] Pietro Lovato, Alessandro Perina, Nicu Sebe, Omar Zandonà, Alessio Montagnini, Manuele Bicego, Marco Cristani (2012). *Tell Me What You Like and I'll Tell You What You Are: Discriminating Visual Preferences on Flickr Data*. In: Asian Conference on Computer Vision. p. 45-56, Daejeon, Korea, November 5-9, 2012. DOI: 10.1007/978-3-642-37331-2_4 (acceptance rate 23%)

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- [CP-128] *Riccardo Satta*, Giorgio Fumera, Fabio Roli, Marco Cristani, Vittorio Murino (2011). *A Multiple Component Matching Framework for Person Re-identification*. In: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). vol. 6979, p. 140-149, SPRINGER-VERLAG BERLIN, ISBN: 9783642240874, Ravenna, ITALY, SEP 14-16, 2011, doi: 10.1007/978-3-642-24088-1_15
- [CP-129] Alessandro Perina, Pietro Lovato, Marco Cristani, Manuele Bicego (2011). *A comparison on score spaces for expression microarray data classification*. In: Proceedings of the 6th IAPR international conference on Pattern recognition in bioinformatics. LECTURE NOTES IN BIOINFORMATICS, vol. 7036, p. 202-213, SPRINGER-VERLAG BERLIN, ISBN: 9783642248542, ISSN: 2366-6323, Delft (NL), 2-4 Nov 2011, doi: 10.1007/978-3-642-24855-9_18
- [CP-130] Ramachandra Raghavendra, Alessio Del Bue, Marco Cristani, Vittorio Murino (2011). *Abnormal crowd behavior detection by social force optimization*. In: HBU 2011 Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). vol. 7065, p. 134-145, Springer-Verlag, ISBN: 9783642254451, Amsterdam, 16 November 2011, doi: 10.1007/978-3-642-25446-8_15
- [CP-131] Pietro Salvagnini, Marco Cristani, Del Bue Alessio, Vittorio Murino (2011). *An Experimental Framework for Evaluating PTZ Tracking Algorithms*. In: Computer Vision Systems. vol. 6962, p. 81-90, Springer Berlin Heidelberg, ISBN: 9783642239670, Sophia Antipolis, France, September 20-22, 2011, doi: 10.1007/978-3-642-23968-7_9
- [CP-132] Fabrizio Smeraldi, Manuele Bicego, Marco Cristani, Vittorio Murino (2011). *CLOOSTING: CLustering Data with BOOSTING*. In: *Multiple Classifier Systems*: 10th International Workshop, MCS 2011, Naples, Italy, June 15-17, 2011. Proceedings. p. 289-298, SPRINGER-VERLAG BERLIN,, ISBN: 9783642215568, Naples, 15-17 June 2011, doi: 10.1007/978-3-642-21557-5_31
- [CP-133] *Dong Seon Cheng, Marco Cristani, Stoppa Michele, Loris Bazzani, Vittorio Murino (2011). *Custom Pictorial Structures for Re-identification*. In: Proceedings of the British Machine Vision Conference. p. 68.1-68.11, BMVA Press, ISBN: 9781901725438, Dundee, UK, 29 August - 2 September, doi: 10.5244/C.25 (acceptance rate 32%)
- [CP-134] Samuele Martelli, Diego Tosato, Marco Cristani, Vittorio Murino (2011). *Fast Fpga-Based Architecture for Pedestrian Detection Based On Covariance Matrices*. In: Proceedings of the International Conference on Image Processing 2011. p. 389-392, IEEE, ISBN: 9781457713040, Bruxelles, 11-14 September, doi: 10.1109/ICIP.2011.6116531
- [CP-135] Samuele Martelli, Diego Tosato, Marco Cristani, Vittorio Murino (2011). *FPGA-Based Pedestrian Detection Using Array of Covariance Features*. In: Proceedings of 2011 Fifth ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC). ISBN: 9781457717086, Ghent, Belgium, 22-25 August
- [CP-136] *Marco Cristani*, Anna Pesarin, Alessandro Vinciarelli, Marco Crocco, Vittorio Murino (2011). *Look at Who's Talking: Voice Activity Detection by Automated Gesture Analysis*. In: Constructing Ambient Intelligence. vol. 277, p. 72-80, Springer Berlin Heidelberg, ISBN: 9783642314797, Amsterdam, Nov 16, 2011, doi: 10.1007/978-3-642-31479-7_14
- [CP-137] Ramachandra Raghavendra, Alessio Del Bue, Marco Cristani, Vittorio Murino (2011). *Optimizing Interaction Force for Global Anomaly Detection in Crowded Scenes*. In: Computer Vision Workshops (ICCV Workshops), 2011 IEEE International Conference on. p. 136-143, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN: 9781467300636, Barcelona, SPAIN, NOV 06-13, 2011, doi: 10.1109/ICCVW.2011.6130235

- [CP-138] *Marco Cristani, Loris Bazzani, Diego Tosato, Giulia Paggetti, Gloria Menegaz, Alessio Del Bue, Vittorio Murino (2011). *Social interaction discovery by statistical analysis of F-formations*. In: Proceedings of the British Machine Vision Conference. p. 1-12, BMVA Press, ISBN: 190172543X, Dundee, August 2011, doi: 10.5244/C.25.23 (oral presentation, acceptance rate 8%)
- [CP-139] Marco Cristani, Giulia Paggetti, Alessandro Vinciarelli, Loris Bazzani, Gloria Menegaz, Vittorio Murino (2011). Towards *Computational Proxemics: Inferring Social Relations from Interpersonal Distances*. In: Proceedings of the 2011 IEEE Third International Conference on Social Computing (SocialCom). IEEE, ISBN: 9781457719318, BOSTON, OCTOBER 2011, doi: 10.1109/PASSAT/SocialCom.2011.32

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- [CP-140] Alessandro Perina, Marco Cristani, Vittorio Murino (2010). *2lda: segmentation for recognition*. In: Proceedings of the 20th International Conference on Pattern Recognition (ICPR), 2010. p. 995-998, IEEE, ISBN: 9781424475421, Istanbul, 23-26 Aug. 2010, doi: 10.1109/ICPR.2010.249
- [CP-141] Anna Pesarin, Paolo Calanca, Vittorio Murino, Marco Cristani (2010). *A generative score space for statistical dialog characterization in social signalling*. In: Proceedings of the IAPR Workshop on Statistical Pattern Recognition 2010. vol. 6218, p. 630-639, SPRINGER-VERLAG BERLIN, Turkey, August 2010, doi: 10.1007/978-3-642-14980-1_62
- [CP-142] Diego Tosato, Michela Farenzena, Vittorio Murino, Marco Cristani (2010). *A re-evaluation of pedestrian detection on riemannian manifolds*. In: Proceedings of the 20th International Conference on Pattern Recognition (ICPR), 2010. p. 3308-3311, IEEE, ISBN: 9781424475421, Istanbul, 23-26 August 2010, doi: 10.1109/ICPR.2010.809
- [CP-143] Samuele Martelli, Diego Tosato, Michela Farenzena, Marco Cristani, Vittorio Murino (2010). *An FPGA-based Classification Architecture on Riemannian Manifolds*. In: Proceedings of the International Workshop on Database and Expert Systems Applications (DEXA), 2010. p. 215-220, ISBN: 9781424480494, Bilbao, Spain, September 1, 2010, doi: 10.1109/DEXA.2010.56 (Best Paper Award)
- [CP-144] Loris Bazzani, Marco Cristani, Vittorio Murino (2010). *Collaborative Particle Filters for Group Tracking*. In: Proceedings of the IEEE International Conference on Image Processing 2010. p. 837-840, IEEE, ISBN: 9781424479948, Hong Kong, SEP 26-29, 2010, doi: 10.1109/ICIP.2010.5653463
- [CP-145] *Diego Tosato, Michela Farenzena, Mauro Spera, Marco Cristani, Vittorio Murino, (2010). *Multi-class Classification on Riemannian Manifolds for Video Surveillance*. In: (a cura di): ECCV 2010 Daniilidis K. Maragos P. Paragios N., Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). vol. 6312, p. 378-391, SPRINGER-VERLAG BERLIN, ISBN: 9783642155512, Heraklion, Greece, SEP 05-11, 2010, doi: 10.1007/978-3-642-15552-9_28 (oral presentation, acceptance rate 3.3%)
- [CP-146] Loris Bazzani, Michela Farenzena, Alessandro Perina, Marco Cristani, Vittorio Murino (2010). *Multiple-shot person re-identification by hpe signature*. In: Proceedings of the IEEE International Conference on Pattern Recognition (ICPR). p. 1413-1416, IEEE, ISBN: 9781424475421, Istanbul, August 2010, doi: 10.1109/ICPR.2010.349 (IBM best student paper award)
- [CP-147] *Alessandro Perina, Nebojsa Jojic, Umberto Castellani, Marco Cristani, Vittorio Murino (2010). *Object Recognition with Hierarchical Stel Models*. In: ECCV 2010 Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). vol. 6316, p. 15-28, SPRINGER-VERLAG BERLIN, ISBN: 9783642155666,

- Heraklion, Greece, SEP 05-11, 2010, doi: 10.1007/978-3-642-15567-3_2 (acceptance rate 27.7%)
- [CP-148] Diego Tosato, Michela Farenzena, Marco Cristani, Vittorio Murino (2010). *Part-based human detection on Riemannian Manifolds*. In: Proceedings of the International Conference on Image Processing 2010. p. 3469-3472, IEEE, ISBN: 9781424479948, Hong Kong, SEP. 26-29, 2010, doi: 10.1109/ICIP.2010.5650076
- [CP-149] *Michela Farenzena, Loris Bazzani, Alessandro Perina, Vittorio Murino, Marco Cristani (2010). *Person re-identification by symmetry-driven accumulation of local features*. In: Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2010. p. 2360-2367, IEEE COMPUTER SOC., ISBN: 9781424469840, San Francisco, US, JUN 13-18, 2010, doi: 10.1109/CVPR.2010.5539926 (acceptance rate 26.8%)
- [CP-150] Alexander M. Bronstein, Michael M. Bronstein, Benjamin Bustos, Umberto Castellani, Marco Cristani, Bianca Falcidieno, Leonidas J. Guibas, Iasonas Kokkinos, Vittorio Murino, Maks Ovsjanikov, Giuseppe Patanè, Ivan Sipiran, Michela Spagnuolo, Jian Sun (2010). *SHREC 2010: robust feature detection and description benchmark*. In: Proc. 3DOR. p. 1-6, Eurographics Association, ISBN: 9781450301602, Norrköping - Sweden, 2 May 2010
- [CP-151] Marco Cristani, Vittorio Murino, Alessandro Vinciarelli (2010). *Socially intelligent surveillance and monitoring: Analysing social dimensions of physical space*. In: Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2010. ISBN: 9781424470297, San Francisco, US, June 2010, doi: 10.1109/CVPRW.2010.5543179
- [CP-152] *Marco Cristani, Pesarin Anna, Drioli Carlo, Vittorio Murino, Rodà Antonio, Grapulin Michele, Sebe Nicu (2010). *Toward an Automatically Generated Soundtrack from Low-level Cross-modal Correlations for Automotive Scenarios*. In: MM '10: Proceedings of the international conference on Multimedia. p. 551-560, ISBN: 9781605589336, Firenze, Italy, October 2010, doi: 10.1145/1873951.1874024 (oral presentation, acceptance rate 17%)

--- 2009 ---

- [CP-153] *Alessandro Perina, Marco Cristani, Umberto Castellani, Vittorio Murino, Nebojsa Jojic (2009). *A hybrid generative/discriminative classification framework based on free-energy terms*. In: Proceedings of the IEEE International Conference on Computer Vision (ICCV), p. 2058-2065, IEEE, ISBN: 9781424444199, ISSN: 1550-5499, Kyoto, Japan, October 2009, doi: 10.1109/ICCV.2009.5459453 (acceptance rate 23.2%)
- [CP-154] Alessandro Perina, Marco Cristani, Umberto Castellani, Vittorio Murino (2009). *A new generative feature set based on entropy distance for discriminative classification*. In: Proceedings of the IEEE International Conference on Image Analysis and Processing ICIAP 2009. vol. 5716, p. 199-208, Springer-Verlag, ISBN: 9783642041457, Vietri s.m., SA, Italy, September 2009, doi: 10.1007/978-3-642-04146-4_23
- [CP-155] Marco Cristani, Anna Pesarin, Carlo Drioli, Alessandro Tavano, Alessandro Perina, Vittorio Murino (2009). *Auditory dialog analysis and understanding by generative modelling of interactional dynamics*. In: Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops, 2009. CVPR Workshops 2009.. p. 862-868, IEEE, ISBN: 9781424439942, Florida, June 2009, doi: 10.1109/CVPRW.2009.5204265
- [CP-156] Manuele Bicego, Marco Cristani, Vittorio Murino, Elzbieta Pekalska, Robert Duin (2009). *Clustering-based construction of Hidden Markov Models for generative kernels*. In: International Workshop on Energy Minimization Methods in Computer Vision and Pattern Recognition. vol. 5681, p. 466-479, SPRINGER-VERLAG BERLIN, ISBN: 9783642036408, Bonn, Germany, 24-08-09 27-08-09, doi: 10.1007/978-3-642-03641-5_35

- [CP-157] *Alessandro Perina, Marco Cristani, Umberto Castellani, Vittorio Murino, Jojic Nebojsa (2009). *Free energy score space*. In: Proceedings of the Advances in Neural Information Processing Systems (NIPS). p. 1428-1436, ISBN: 9781615679119, Vancouver, Canada, December (acceptance rate 23.8%)
- [CP-158] Alessandro Daducci, Umberto Castellani, Marco Cristani, Paolo Farace, Pasquina Marzola, Andrea Sbarbati, Vittorio Murino (2009). *Learning Approach to Analyze Tumour Heterogeneity in DCE-MRI Data During Anti-cancer Treatment*. In: (a cura di): C. COMBI;Y. SHAHAR;A. ABU-HANNA, Artificial Intelligence in Medicine. vol. LNAI 5651, p. 385-389, Springer Berlin / Heidelberg, ISBN: 9783642029752, Verona, July 2009, doi: 10.1007/978-3-642-02976-9_54
- [CP-159] Loris Bazzani, Marco Cristani, Manuele Bicego, Vittorio Murino (2009). *Online subjective feature selection for occlusion management in tracking applications*. In: IEEE International Conference on Image Processing, p. 1-6, IEEE, ISBN: 9781424456536, Cairo, Egitto, NOV 07-10, 2009, doi: 10.1109/ICIP.2009.5414293
- [CP-160] *Nebojsa Jojic, Alessandro Perina, Marco Cristani, Vittorio Murino, Brendan Frey (2009). *Stel component analysis: Modeling spatial correlations in image class structure*. In: Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition, 2009. p. 2044-2051, IEEE, ISBN: 9781424439928, Miami, FL, USA, June 2009, doi: 10.1109/CVPR.2009.5206581 (oral presentation, acceptance 4.2%)
- [CP-161] Michela Farenzena, Loris Bazzani, Vittorio Murino, Marco Cristani (2009). *Towards a Subject-Centered Analysis for Automated Video Surveillance*. In: Proceedings of the IEEE International Conference on Image Analysis and Processing ICIAP 2009. vol. 5716, p. 481-489, Springer-Verlag Berlin,, ISBN: 9783642041457, Vietri s.m., SA, Italy, September 2009, doi: 10.1007/978-3-642-04146-4_52

--- 2008 ---

- [CP-162] Umberto Castellani, Guido Maria Cortelazzo, Marco Cristani, Elisabetta Delponte, Andrea Fusiello, Andrea Giachetti, Stefano Mizzaro, Francesca Odone, Enrico Puppo, Riccardo Scateni, Pietro Zanuttigh (2008). *3-SHIRT: Three-Dimensional Shape Indexing and Retrieval Techniques*. In: Eurographics Italian Chapter Conference. p. 113-120, ISBN: 9783905673685, Salerno, Italy, July, 2008, doi: 10.2312/LocalChapterEvents/ItalChap/ItalianChapConf2008/113-120
- [CP-163] Anna Pesarin, Marco Cristani, Vittorio Murino, Carlo Drioli, Alessandro Perina, Alessandro Tavano (2008). *A statistical signature for automatic dialogue classification*. In: International Conference on Pattern Recognition, ICPR 2008. p. 547-550, IEEE, ISBN: 9781424421749, ISSN: 1051-4651, Tampa, FL, DEC 08-11, 2008, doi: 10.1109/ICPR.2008.4761075
- [CP-164] Marco Cristani, Vittorio Murino (2008). *Background subtraction with adaptive spatio-temporal neighborhood analysis*. In: VISAPP 2008 - 3rd International Conference on Computer Vision Theory and Applications, Proceedings. p. 484-489, ISBN: 9789898111210, Funchal, PORTUGAL, 22-25 January 2008
- [CP-165] Marco Cristani, Alessandro Perina, Umberto Castellani, Vittorio Murino (2008). *Content Visualization and Management of Geo-located Image Databases*. In: CHI '08 Extended Abstracts on Human Factors in Computing Systems. p. 2823-2828, ACM New York, NY, USA, ISBN: 9781605580128, Florence, Italy, 5-10 april 2008, doi: 10.1145/1358628.1358768
- [CP-166] Marco Cristani, Alessandro Perina, Umberto Castellani, Vittorio Murino (2008). *Geo-located image analysis using latent representations*. In: Proceedings - Ieee Computer Society Conference on Computer Vision And Pattern Recognition (CVPR 2008). p. 381-388, IEEE, ISBN: 9781424422425, Anchorage, USA, 23-28 June 2008, doi: 10.1109/CVPR.2008.4587390 (acceptance rate 31.8%)

- [CP-167] Marco Cristani, Alessandro Perina, Vittorio Murino (2008). *Geo-located image grouping using latent descriptions*. In: 6th International Conference on Computer Vision Systems. Lecture Notes In Computer Science, vol. 5008, p. 425-434, SPRINGER-VERLAG BERLIN,, ISBN: 9783540795469, ISSN: 0302-9743, Santorini, GREECE, MAY 12-15, 2008, doi: 10.1007/978-3-540-79547-6_41
- [CP-168] Umberto Castellani, Marco Cristani, Xian Lu, Vittorio Murino, Anil K. Jain (2008). *HMM-based geometric signatures for compact 3D face representation and matching*. In: IEEE Computer Society Workshop on Biometrics., p. 1274-1279, IEEE Press, ISBN: 9781424423392, ISSN: 1063-6919, Anchorage, USA, 28 june 2008, doi: 10.1109/CVPRW.2008.4563126
- [CP-169] Alessandro Perina, Marco Cristani, Vittorio Murino (2008). *Unsupervised Learning of saliency concepts for image classification and retrieval*. In: Progress in Pattern Recognition, Image Analysis and Applications. vol. 5197, p. 169-177, SPRINGER-VERLAG BERLIN, ISBN: 9783540859192, Havana, Cuba, SEP 09-12, 2008, doi: 10.1007/978-3-540-85920-8_21

--- 2007 ---

- [CP-170] Michela Farenzena, Marco Cristani, Umberto Castellani, Andrea Fusiello (2007). *3D Objects Face Clustering using Unsupervised Mean Shift*. In: (a cura di): Raffaele de Amicis Giuseppe Conti, Eurographics Italian Chapter Conferenc. p. 39-43, EUROGRAPHICS, ISBN: 9783905673623, Trento, Italy, February 14 - 16, 2007, doi: 10.2312/LocalChapterEvents/ItalChap/ItalianChapConf2007/039-043
- [CP-171] Alessandro Perina, Marco Cristani, Vittorio Murino (2007). *Natural scenes categorization by hierarchical extraction of typicality patterns*. In: Proceedings - 14th International conference on Image Analysis and Processing, ICIAP 2007. p. 801-806, ISBN: 9780769528779, Modena, IT, September 10-14 2007, doi: 10.1109/ICIAP.2007.4362874
- [CP-172] Manuele Bicego, Marco Cristani, Vittorio Murino (2007). *Sparseness Achievement with Hidden Markov Models for 2D shape analysis*. In: IEEE International Conference on Image Analysis and Processing, proceedings. p. 62-72, IEEE COMPUTER SOC, ISBN: 9780769528779, Modena, IT, September 10-14 2007, doi: 10.1109/ICIAP.2007.4362759 (Best Poster Award)
- [CP-173] Marco Cristani, Vittorio Murino (2007). *Time-dependent interactive graphical models for human activity analysis*. In: International Workshop on Advances in Pattern Recognition. Advances in pattern recognition, p. 109-118, springer-verlag london ltd, isbn: 9781846289446, ISSN: 1617-7916, Plymouth, UK, July 21-23 2007, doi: 10.1007/978-1-84628-945-3_11
- [CP-174] Alessandro Perina, Marco Cristani, G. Malerba, L. Xumerle, Vittorio Murino, Pierfranco Pignatti (2007). *Unsupervised haplotype reconstruction and LD blocks discovery in a hidden Markov framework*. In: Applications of Fuzzy Sets Theory. vol. 4578, p. 659-665, SPRINGER-VERLAG BERLIN, ISBN: 9783540733997, Ruta di Camogli, Genova (Italy), July 7-10, 2007, doi: 10.1007/978-3-540-73400-0_84

--- 2006 ---

- [CP-175] Umberto Castellani, Marco Cristani, Vittorio Murino (2006). *3D Data segmentation using a non-parametric density estimation approach*. In: Proceedigs of the Fourth Eurographics Italian Chapter Conference 2006. p. 99-103, Eurographics, ISBN: 3905673584, Catania, Italy, February 22-24
- [CP-176] Umberto Castellani, Marco Cristani, Vittorio Murino (2006). *Acoustic Range Image Segmentation by Effective Mean Shift*. In: 2006 IEEE International Conference on Image Processing, ICIP 2006, Proceedings. p. 2437-2440, IEEE, ISBN: 9781424404810, Atlanta, GA, OCT 08-11, 2006, doi: 10.1109/ICIP.2006.312769

- [CP-177] Marco Cristani, Umberto Castellani, Vittorio Murino (2006). *Adaptive Feature Integration for Segmentation of 3D Data by Unsupervised Density Estimation*. In: 18th International Conference on Pattern Recognition (ICPR), Vol 4, Proceedings. International Conference On Pattern Recognition, p. 21-24, IEEE COMPUTER SOC, ISBN: 0769525210, ISSN: 1051-4651, Hong Kong, People's Republic of China, 20-24 August, doi: 10.1109/ICPR.2006.220
- [CP-178] Marco Cristani, Manuele Bicego, Vittorio Murino (2006). *Audio-Visual Foreground Extraction for Event Characterization*. In: Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition Workshop, 2006. CVPRW '06.. IEEE, ISBN: 0769526462, New York, 17-22 June 2006, doi: 10.1109/CVPRW.2006.33

--- 2005 ---

- [CP-179] Andrea Colombari, Marco Cristani, Vittorio Murino, Andrea Fusiello (2005). *Exemplar-based Background Model Initialization*. In: Proceedings of the third ACM international workshop on Video surveillance & sensor networks. p. 29-36, ACM New York, NY, USA, ISBN: 1595932429, Singapore, 11 November, doi: 10.1145/1099396.1099402

--- 2004 ---

- [CP-180] Donato Pannullo, Marco Cristani, Dong Seon Cheng, Vittorio Murino (2004). *Distilling Information with Super-Resolution for Video Surveillance*. In Proceedings of the ACM Workshop on Video Surveillance and Sensor Networks (VSSN 2004), New York, NY, USA, October 15, 2004, pp. 2-11. ACM.
- [CP-181] Marco Cristani, Manuele Bicego, Vittorio Murino (2004). *On-Line Adaptive Background Modelling for Audio Surveillance*. In Proceedings of the 17th International Conference on Pattern Recognition (ICPR 2004), Cambridge, United Kingdom, August 23-26, 2004, Vol. 2, pp. 399-402. IEEE.
- [CP-182] *Marco Cristani, Manuele Bicego, Vittorio Murino (2004). *Audio-Video Integration for Background Modelling*. In Proceedings of the 8th European Conference on Computer Vision (ECCV 2004), Prague, Czech Republic, May 11-14, 2004, Lecture Notes in Computer Science (LNCS), Vol. 3022, pp. 202-213. Springer.

--- 2003 ---

- [CP-183] Manuele Bicego, Marco Cristani, Andrea Fusiello, Vittorio Murino (2003). *Watershed-Based Unsupervised Clustering*. In Proceedings of the 3rd Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR 2003), Lisbon, Portugal, July 7-9, 2003, Lecture Notes in Computer Science (LNCS), Vol. 2683, pp. 83-94. Springer.
- [CP-184] Marco Cristani, Manuele Bicego, Vittorio Murino (2003). *Multi-level Background Initialization using Hidden Markov Models*. First ACM SIGMM International Workshop on Video Surveillance (VS 2003), Berkeley, CA, USA, 7 November 2003, pp. 11-20. ACM.

--- 2002 ---

- [CP-185] Marco Cristani, Manuele Bicego, Vittorio Murino (2002). *Integrated Region- and Pixel-based Approach to Background Modelling*. IEEE Workshop on Motion and Video Computing (WMVC 2002), Orlando, FL, USA, 5-6 December 2002, pp. 3-8. IEEE.

• Chapters in books (13)

- [BC-1] Francesco Setti, Marco Cristani (2017). *The GRODE Metrics*. In: Group and Crowd Behavior for Computer Vision. p. 371-390, ISBN: 9780128092767, doi: 10.1016/B978-0-12-809276-7.00019-9
- [BC-2] Vittorio Murino, Marco Cristani, Shah, Shishir, Savarese, Silvio (2017). *The Group and Crowd Analysis Interdisciplinary Challenge*. In: Group and Crowd Behavior for Computer Vision. p. 1-11, ISBN: 9780128092767, doi: 10.1016/B978-0-12-809276-7.00001-1
- [BC-3] Dong Seon Cheng, Marco Cristani (2014). *Person Re-identification by Articulated Appearance Matching*. In: Advances in Computer Vision and Pattern Recognition. p. 139-160, ISBN: 978-1-4471-6295-7, doi: 10.1007/978-1-4471-6296-4_7
- [BC-4] Loris Bazzani, Marco Cristani, Vittorio Murino (2014). *SDALF: Modeling Human Appearance with Symmetry-Driven Accumulation of Local Features*. In: Advances in Computer Vision and Pattern Recognition. p. 43-69, ISBN: 978-1-4471-6295-7, doi: 10.1007/978-1-4471-6296-4_3
- [BC-5] Marco Cristani, Vittorio Murino (2014). *Socially-Driven Computer Vision for Group Behavior Analysis*. In: Studies in Computational Intelligence. vol. 532, p. 223-256, ISBN: 978-3-642-44906-2, doi: 10.1007/978-3-642-44907-9_10
- [BC-6] R. Raghavendra, Marco Cristani, Alessio Del Bue, E. Sangineto, Vittorio Murino (2013). *Anomaly Detection in Crowded Scenes: A Novel Framework Based on Swarm Optimization and Social Force Modeling, Modeling, Simulation and Visual Analysis of Crowds*. In: The International Series in Video Computing, Modeling, Simulation and Visual Analysis of Crowds. vol. 11, p. 383-411, ISBN: 9781461484820, doi: 10.1007/978-1-4614-8483-7_15
- [BC-7] Marco San Biagio, Samuele Martelli, Marco Crocco, Marco Cristani, Vittorio Murino (2013). *Encoding Classes of Unaligned Objects Using Structural Similarity Cross-Covariance Tensors*. In: Lecture Notes in Computer Science - Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications. vol. 8258, p. 133-140, ISBN: 9783642418211, doi: 10.1007/978-3-642-41822-8_17
- [BC-8] Anna Pesarin, Monja Tait, Alessandro Vinciarelli, Cristina Segalin, Giovanni Bilancia, Marco Cristani (2013). *Generative Modelling of Dyadic Conversations: Characterization of Pragmatic Skills During Development Age..* In: Lecture Notes in Computer ScienceMultimodal Pattern Recognition of Social Signals in Human-Computer-Interaction. LECTURE NOTES IN ARTIFICIAL INTELLIGENCE, vol. 7742, p. 1-8, ISBN: 9783642370816, ISSN: 0302-9743, doi: 10.1007/978-3-642-37081-6_1
- [BC-9] Francesco Setti, Dong Seon Cheng, Naji, Sami Abduljalil Abdulhak, Roberta Ferrario, Marco Cristani (2013). *Ontology-Assisted Object Detection: Towards the Automatic Learning with Internet*. In: Lecture Notes in Computer ScienceImage Analysis and Processing – ICIAP 2013. vol. 8157, p. 191-200, ISBN: 9783642411830, doi: 10.1007/978-3-642-41184-7_20
- [BC-10] Sylvie Jasmine Poletti, Vittorio Murino, Marco Cristani (2013). *SDALF+C: Augmenting the SDALF Descriptor by Relation-Based Information for Multi-shot Re-identification*. In: Lecture Notes in Computer ScienceProgress in Pattern Recognition, Image Analysis, Computer Vision, and Applications. vol. 8259, p. 423-430, ISBN: 9783642418266, doi: 10.1007/978-3-642-41827-3_53
- [BC-11] Sebastiano Vascon, Marco Cristani, Marcello Pelillo, Vittorio Murino (2013). *Using Dominant Sets for k-NN Prototype Selection*. In: Lecture Notes in Computer Science - Image Analysis and Processing ICIAP 2013. vol. 8157, p. 131-140, ISBN: 9783642411830, doi: 10.1007/978-3-642-41184-7_14
- [BC-12] Loris Bazzani, Marco Cristani, Paggetti Giulia, Tosato Diego, Menegaz Gloria, Vittorio Murino (2012). *Analyzing Groups: A Social Signaling Perspective*. In: Video Analytics for Business Intelligence. vol. 409, p. 271-305, Shan Caifeng; Porikli Fatih;Xiang Tao;Gong Shaogang;, ISBN: 9783642285974, doi: 10.1007/978-3-642-28598-1_9
- [BC-13] Cheng Dong Seon, Marco Cristani, Vittorio Murino (2009). *Distillation: a super-resolution approach for the selective analysis of noisy and*

unconstrained video sequences. In: Machine Learning for Human Motion Analysis: Theory and Practice. Liang Wang, Li Cheng, Guoying Zhao editors, ISBN: 9781605669007, doi: 10.4018/978-1-60566-900-7.ch013

Management - Tech Transfer

My attitude toward applied research can be also appreciated by considering my activity in terms of management, spinoffs, patents and entrepreneurship.

- **Research Labs**

- *PAVIS Lab, Italian Institute of Technology*: From 2009 to 2013, I contributed to establishing PAVIS Lab alongside Vittorio Murino. As Team Leader, I coordinated scientific and project activities, supervised three PhD students, and fostered collaborations with other IIT laboratories. By 2013, PAVIS had grown to more than fifteen members.
- *INTELLIGO Labs, University of Verona*: In 2023 I founded INTELLIGO Labs (<https://intelligolabs.net/>) as a coordinated ecosystem of research laboratories, each with its own operational leader, while I lead the laboratory focused on computer vision and machine learning theory. Specifically, they are INTELLIGO ML, Machine Learning and Computer Vision, INTELLIGO ICV, Industrial Computer Vision, GRAIL, Graphics and Interaction; AI4Materials, Artificial Intelligence for Materials Lab. With **AI4Materials**, I connected the University with the Verona and Vicenza stone district, recruited its scientific leader, secured ministerial funding, and engaged ISIM (Istituto Internazionale per il Marmo), industry, and public institutions like the representatives of Confindustria Marmomacchine and MASE members to promote an amelioration of the normative architecture (D.M. 127/2024). Within one year, AI4Materials grew to six permanent staff members, two postdoctoral researchers, two PhD students, and several thesis students, while contributing to Veneto's first operational plant for marble-sludge recovery. <https://veronaeconomia.it/2026/07/28/leggi-notizia/argomenti/impresae/a-lugo-di-grezzana-nasce-il-primo-impianto-veneto-per-il-recupero-delle-lime-di-marmo.html>. I am currently working with the UNIVR Rector to transform INTELLIGO Labs into an interdepartmental centre, initially without an independent cost centre, to increase its visibility and reach across the University.

- **Spinoff / startup**

- In 29/02/2016, **I co-founded** together with dr. Davide Conigliaro (now CEO) and dr. Pietro Lovato (now CTO) the startup **Humatics s.r.l.** (humatics.it). My current role (other than co-founder) is that of Chief Research Officer. Later in 8/2016, Humatics became spinoff accredited by the University of Verona, with me as academic member.
- Humatics won the Start Cup Veneto 2018
- As representative of the Computer Science Park CSP, my interest has been that of **facilitating the legal assistance to all of the CSP companies**. This has been possible thanks to the collaboration with the Law department @UNIVR, which lead on 24/01/2018 to create a collaboration with prof. Giovanni Meruzzi and his team, with the aim of receiving a systematic legal and economic support.
- My relationship with companies goes beyond the ones hosted in the CSP: in fact, I also have connections with those companies hosting students for their bachelor and master stages. In this regard, I have established **a systematic link with the startup MakarenaLabs** (makarenalabs.com) on the topic of signal processing and machine learning, with the big company **Donatoni Stone Machines** on computer vision.
- In 13/12/2023 I co-founded (together with prof. Francesco Setti and Prof. Andrea Chiarini) the spin-off Qualyco s.r.l, which is performing Quality Control by using generative AI.
- Qualyco has been finalist at the start Cup Veneto 2024

- **Patents**

My activity related to patents is intertwined with that of teaching: in fact, in my lessons I usually give seminars on how to protect the intellectual properties, and since this year **I encourage students in their stages to plan and delivers patents**, in accord with the liason office of UNIVR. Under this umbrella, I was able to have a patent pending this year with a bachelor student, related to 3D reconstruction of small objects. This adds to my activity of writing patents.

- Theodore Tsesmelis, Irtiza Hasan, Fabio Galasso, Herbert Kaestle, Alessio Del Bue and Marco Cristani, *A method of measuring illumination, corresponding system and computer program product* IT 102018000005381, priority date May 15th, 2018
- Theodore Tsesmelis, Irtiza Hasan, Marco Cristani, Alessio Del Bue, Michael Eschey, Herbert Kaestle and Fabio Galasso, *A method of identifying light source, corresponding system and computer program product* IT 102016000103146 A1, priority date October 13th, 2016 Additionally filed and granted as DE 112017005207T5, US 20190373704 A1
- Irtiza Hasan, Francesco Setti, Theodore Tsesmelis, Marco Cristani, Alessio Del Bue, Michael Eschey, Herbert Kaestle and Fabio Galasso, *A method of view frustum detection, corresponding system and computer program product* IT 102016000103076 A1, priority date October 13th, 2016 Additionally filed and granted as US 20190250702 A1, DE 112017005182T5
- Marco Cristani, Francesco Setti and Andrea Chiarini, *Metodo e sistema di rilevamento di difetti visuali di oggetti da ispezionare*, preferibilmente applicabile a linee di produzione, IT 102023000025263, filing date November 28th, 2023.

• **Other entrepreneurship actions:**

- with Humatics, I have been able to setup a **funding strategy which allowed me in setting up the most intriguing research project for a big private company** (VeronaFiere SPA): the idea is to exploit a huge monitoring area (**more than 400 cameras!**) looking for **big gatherings, face mask usage**, and other video analytics tasks. These tasks are obviously crucial in this time, due to the pandemics, and will certainly unlock research and development possibilities.
- To facilitate the birth of new startups (right after the MSc degree, and within the Computer Science Park and the Computer Engineering Park), I have solid connections with:
 - **Business-angel companies:** Custodi di Successo
 - **Consulting companies:** Considi
- As president of the spinoff commission, and as Senior Coach, I am able to write and judge **business plans**, which I did for tens of startups.
- As a Senior Coach during the Inest project, I have been able to coach SIPEOM srl, which **ranked second over 160 startups in 2025**.

Further data

• **Articles published by others in magazines**

The articles published about me and my projects/spinoffs are more than 30 (national:>40, international:4). In the following I report the most important ones, organized by topics. For social networking, please check my Linkedin page: <https://www.linkedin.com/in/marco-cristani-3a78a017/>

• My activity with the new **INTELLIGO lab on artificial intelligence for materials** (6 national/local articles)

- Verona Economia (28/07/2026) "*A Lugo di Grezzana nasce il primo impianto veneto per il recupero delle lime di marmo*"
<https://veronaeconomia.it/2026/07/28/leggi-notizia/argomenti/imprese/a-lugo-di-grezzana-nasce-il-primo-impianto-veneto-per-il-recupero-delle-lime-di-marmo.html>
- Analoghi comunicati su assomarmomacchine.com, consorzioarmistivalpantena.com, climaesostenibilita.it

- Giornale Pantheon (11/10/2024), "Marmo: presentati i primi risultati dell'accordo siglato tra Università e ISIM"
- StoneNews.eu (22/02/2024), "The agreement between the University of Verona and the International Marble Institute has been signed"
- My **second start-up, Qualyco** (3 national/local articles)
 - Veneto Economy (2023), "Start Cup Veneto 2023: i vincitori".
 - Daily Verona Network (27/10/2023), "L'Università di Verona sul podio della Start Cup Veneto".
 - Università di Padova (27/10/2023), "Premiati i vincitori della ventiduesima edizione di Start Cup Veneto".
- My new **L8 bachelor degree course on Engineering for Robotic and Intelligent Systems** (4 national/local articles)
 - L'Arena (29/8/2024), "All'università di Verona si prepara l'ingegnere del futuro: aperte le iscrizioni al nuovo corso di laurea" <https://www.larena.it/territorio-veronese/citta/all-universita-di-verona-si-prepara-l-ingegnere-del-futuro-aperte-le-iscrizioni-al-nuovo-corso-di-laurea-br-1.12423068>
 - Analoghi comunicati su veronatomorrow.it, universita.it, veronanews.net
- My research on the **COVID social distancing problem** (19 national articles in total)
 - Redazione Ansa (21-22/07/2020), "Intelligenza artificiale anti Covid, misura la distanza sicura" and similarly L'Arena di Verona, il Mattino di Padova, La Nuova Venezia, Corriere delle Alpi, La Tribuna di Treviso, daily.veronanetwork.it, tgverona.it, veronasera.it, veronasociale.com, primoweb.it, Corriere Quotidiano.it, GiornaleDiCattolica.it, altoadige.gelocal.it, Tiscali.it, lavocedigenova.it, gds.it, Liguria, meteoweb.eu
- The **EU H2020 project SCENEUNDERLIGHT** (4 articles in total)
 - (14/06/2019) "Osram's 'Invisible Light Switch' project to drive energy saving enhancement". *ELE times*.
 - Molony Ray (2019, June 12) "How AI lighting can fool you into thinking lights are on". *Lux Review*.
 - Julien Happich (2019, June 7) "Lighting system automatically adapts to users' perception", <https://www.eenewseurope.com/>
 - Chen Yining (2019, June 6) "Osram Led Project Presents Invisible Light Switch for Energy Saving Enhancement". *Led Inside*, 1626 page views)
- The **project BCMS (Bird Concentration and Monitoring System)** (3 articles in total)
 - (19/08/2020) "Aviazione, una startup italiana contro i pericoli del birdstrike", askanews.it
 - (30/07/2020) "Birdstrike" al 4° Stormo Parte la sperimentazione per evitare i pericoli, LaNazione (Grosseto)
 - Rai1, TG1 h20 ed. (Sept. 13, 2019)
- My spinoff **Humatics** (4 articles in total)
 - L'Arena (14/10/2021) "La milanese Sys-Dat Group acquista il 70% di Humatics" <https://www.larena.it/argomenti/economia/economia-nazionale/la-milanese-sys-dat-group-acquista-il-70-di-humatics-1.8953413>

	○ Niccolò Di Leo (28/4/2017). "Il web richiede le sfumature". <i>Corriere della Sera</i> ○ Luca Perin 13/09/2016) " Start Cup Veneto, le magnifiche 5 idee vincitrici dell'edizione 2016". <i>VenetoEconomia</i>. Retrieved from https://www.venetoeconomia.it/2016/09/start-cup-veneto-2016-5-idee-vincitrici/ ○ (13/09/2013) " Start Cup Veneto, le magnifiche 5 idee vincitrici dell'edizione 2016". <i>VenetoEconomia</i>. Retrieved from https://www.venetoeconomia.it/2016/09/start-cup-veneto-2016-5-idee-vincitrici/ • My activity as referent of the Computer Science Park, (3 articles) ○ Davide Orsato (19/10/2015). "Se il software diventa impresa". <i>Corriere Imprese Nordest</i> ○ Manuela Trevisani (01/10/2015) "Università: raddoppia il parco della scienza" <i>L'Arena</i> ○ (01/10/2015) "Computer Science Park raddoppia gli spazi: accoglieremo le startup" <i>Corriere di Verona</i>
Language	<i>Written and spoken competence in all languages according to CERF levels, Common European Reference Framework (http://www.coe.int/t/dg4/linguistic/cadre1_en.asp); append certificates wherever available</i> <i>Language: C2 Italian, (native speaker)</i> <i>Language: C1 English</i> <i>German, scholastic (secondary and high school)</i>
Rovereto, Tuesday 29 July 2026	

Appendix

Teaching evaluation scores

- The course evaluation scores obtained at the *University of Verona* have been collected by averaging over the academic years *the overall score given to the question* "On the whole, are you satisfied with the organisation and teaching of this course?" The available scores were from 0 to 4. As comparison, the mean scores over the courses of the whole computer science department of the University of Verona, related to the same time span, are also reported.
- The course evaluation scores obtained at the *Free University of Bozen-Bolzano* consist in the percentages of answers available in the questionnaire that I received, together with the mean reference scores given by the whole degree (Data Science)