EUVIP 2026
28 September–
1 October 2026

Luxembourg
Parc Alvisse Hotel

14th European Conference on Visual Information Processing



Main conference programme

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Message from the general and program chairs

Welcome to the 14th th European Conference on Visual Information Processing (EUVIP 2026), held in Luxembourg from the 28th th of September to the 1stst of October 2026. We are deeply honored to welcome all participants to Luxembourg for this special edition, marking the first time EUVIP is hosted in the Grand Duchy and one of the first international vision conferences of its kind hosted in the country. EUVIP is an annual meeting bringing together researchers and practitioners from academia and industry working across visual information processing. The conference covers a broad range of visual modalities, processing tasks, performance assessment methodologies, and applications.

EUVIP 2026 also marks an important milestone in the history of the event. Held for many years as the European Workshop on Visual Information Processing, EUVIP has grown steadily edition after edition into a well-established European venue in the field. This year, it takes the natural next step by becoming a full conference for the first time. This transition reflects the maturity of the event, the growth of its community, and the increasing scientific quality and impact of the work it brings together.
As in its tradition, EUVIP 2026 is held exclusively in an in-person, single-track format. We believe that meeting face-to-face is what makes EUVIP special: it encourages the discussions, exchanges, and new collaborations that a virtual setting cannot easily reproduce, and it sustains the close, collegial spirit that has characterized the event since its inception. This year, we have worked to further build on these strengths by creating dedicated opportunities for networking and mentorship, notably through our researcher matching program and a student mentorship program organized ahead of the student sessions.
The EUVIP 2026 program is built around three categories of papers: main track papers, special session papers, and student session papers. The student session is organized into two tracks, both consisting of peer-reviewed two-page papers formatted in the standard IEEE double-column template. Track A (Technical Extended Abstract) is intended for students presenting specific technical results or preliminary findings, with accepted abstracts included in the IEEE conference proceedings. Track B (PhD Thesis Description) is intended for students presenting the overarching vision, problem statement, and methodology of their ongoing PhD thesis, and is presented and discussed at the conference without being published in the proceedings.

EUVIP 2026 received 112 submissions, a record for EUVIP and a strong sign of the community's continued growth. The double-blind review process was managed by the 3 Program Chairs for the main track papers, the 2 Student Session Chairs for the student session papers, and the respective Special Session Chairs for the special session papers. During the review phase, each paper received at least three reviews from a pool of 143 reviewers, all of whom hold a PhD, in keeping with previous editions of EUVIP.
Based on the content of the reviews, the expertise of the reviewers, and additional in-depth checks, the Program Chairs, Student Session Chairs, and Special Session Chairs (depending on the track) wrote a meta-review for each paper and then finalized a decision informed by all of these elements. Borderline papers were the subject of further discussion involving more than one Chair before a final decision was reached. Following the decisions, only papers with a valid camera-ready version and a confirmed conference registration were retained in the program.
At the end of this process, 65 papers were accepted for publication: 11 in the student session (2 of which appear in Track B without proceedings, and the remainder in Track A with proceedings) and 54 as regular papers in the main track and special sessions. This corresponds to an overall acceptance rate of 58% including the student session, and 54% excluding student session papers.
Five papers were nominated for the paper awards. These were examined by five Paper Award Chairs in a double-blind manner, who selected the Best Paper and Best Student Paper award winners, to be announced during the conference.
The program also features a demonstration session showcasing practical and interactive systems. We received 10 demo proposals, which were reviewed by the Demo Session Chairs; the same chairs selected the demo award, recognizing the most compelling contribution.

Message from the general and program chairs

In shaping the program, we also sought to foster broader representation across the conference, with particular attention to gender balance among invited speakers and panelists.
We are also pleased to have supported early-career and international participation through a dedicated travel grant program. Ten travel grants of 500 euros each were awarded following an open call, to which 27 applications were received. Candidates were ranked according to a set of criteria including the income level of their country of origin, whether they had accepted papers at EUVIP and the scores of those papers, their career stage (with junior researchers prioritized), the distance between their location and the conference venue, and whether they already had access to other funding. The ten highest-ranked applicants were selected, with the next candidate on the list considered whenever a recipient withdrew.
Detailed statistics on the submission, review, and decision process, as well as on the program as a whole, will be presented during the Gala Dinner.

We would like to thank everyone who has contributed to bringing EUVIP 2026 together. This includes the organizing committee, the Special Session Chairs, the reviewers, the authors, the volunteers, the demo session participants, and our sponsors and exhibitors. We are also grateful to Magali Martin, our local event coordinator, and to the entire local team at SnT, University of Luxembourg, for their outstanding work on the conference logistics and organization. We would also like to acknowledge the technical sponsorship of the IEEE Signal Processing Society and EURASIP, the European Association for Signal Processing, whose support reinforces EUVIP's connection to the broader signal processing and visual information processing communities.

Finally, we wish you a very enriching and enjoyable EUVIP 2026, filled with stimulating scientific exchanges, new connections, and memorable encounters. We also hope you will enjoy discovering Luxembourg through the complimentary city visit and our Gala Dinner aboard a cruise boat on the Moselle River. We hope that you will also have the opportunity to stay a little longer, or return in the future, to discover more of Luxembourg, a small country with much to offer and a unique character of its own.
Enjoy EUVIP 2026. We look forward to welcoming you in person!



Djamila Aouada
SNT, UNIVERSITY OF LUXEMBOURG
LUXEMBOURG



Azeddine Beghdadi
UNIVERSITÉ SORBONNE PARIS NORD
FRANCE



Enjie Ghorbel
CRISTAL, ENSI, UNIVERSITY OF MANOUBA
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For more information about EUVIP 2026

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216
PROJECTS

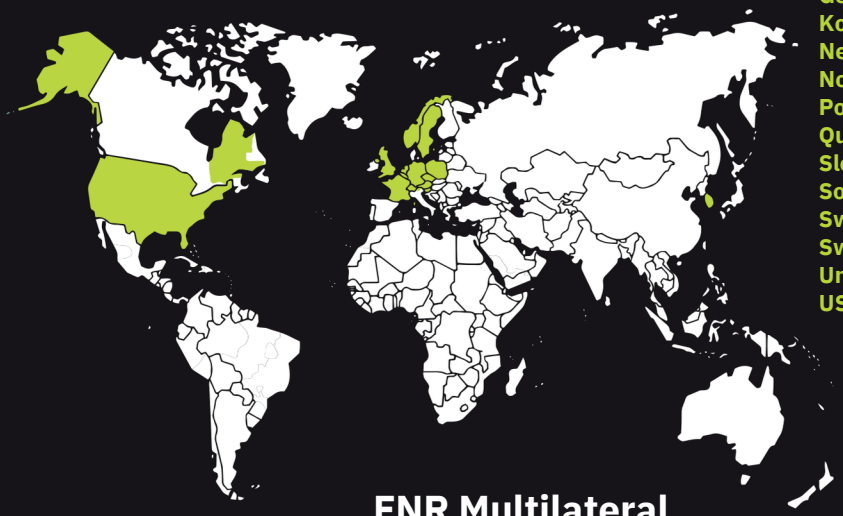
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FNR Multilateral

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In 12 collaborations, the FNR is accepted as lead-agency in charge of the evaluation of joint proposals.

82.27

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REPRESENTING 22.65% OF THE TOTAL FNR COMMITTED BUDGET

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We are grateful to all reviewers who help make EUVIP 2026 possible. We are especially pleased to recognize the following reviewers.

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- **08:15 – 09:00**
  Registration / Badge Pickup
- **09:00 – 10:30**
  Tutorial I
- **10:30 – 11:00**
  Coffee Break
- **11:00 – 12:30**
  Tutorials II & III (in parallel sessions)
- **12:30 – 14:00**
  Lunch
- **14:00 – 14:30**
  Transfer to Luxembourg City
- **14:30 – 16:30**
  Guided Tour of Luxembourg City
- **16:30 – 17:00**
  Transfer to Abbaye de Neumünster
- **17:00 – 18:00**
  Opening Keynote Dima Damen
- **18:00 – 19:30**
  Welcome Drink
- **From 20:00**
  Researchers Matching



09:00-10:30 — Tutorial I

Title: Object-based Visual Localization
Speaker: Vincent Gaudillière

Landmark detection, description, and matching constitute the cornerstone of autonomous visual localization systems deployed in unknown environments. While most widely adopted and accurate solutions rely on low-level landmarks (i.e., points or lines), operating in large-scale, visually ambiguous environments remains highly challenging due to the inherent multiplicity, ambiguity, and sensitivity of local primitives. In the context of localization systems with broader applicability, high-level landmarks—such as objects present in a scene—offer significant advantages over their local counterparts. These include reduced multiplicity, higher detection repeatability across varying viewpoints, and lower ambiguity. This tutorial provides a comprehensive overview of object-based visual localization methods, ranging from pioneering approaches to state-of-the-art techniques. Furthermore, it introduces the mathematical framework for performing object-based localization using ellipsoidal object models. Finally, it discusses the conceptual definition of 'objects' and outline future perspectives for this field, informed by recent advances in computer vision.

11:00-12:30 — Tutorial II

Title: Neural Model Compression and Efficiency
Speaker: Hedi Tabia, Peyman Rostami and Lincen Bai

This tutorial provides a comprehensive perspective on neural model compression and AI efficiency, tracing the field from classical neural-network compression to modern foundation, reasoning, and agentic models. It examines compression across multiple levels. Beyond conventional pruning, quantization, low-rank approximation, and knowledge distillation, the tutorial covers LLM-specific and runtime techniques such as context compression, efficient decoding, adaptive computation, model routing, and inference optimization.

11:00-12:30 — Tutorial III

Title: Assessing the Compression Performance of Video Coding Schemes
Speaker: Mathias Wien

The compression performance of video coding schemes is primarily characterized by the distortion achieved at a given bit rate, commonly analyzed through rate-distortion behavior. In practice, distortion may be estimated using objective quality metrics or measured directly through subjective viewing tests. While objective metrics are essential for efficient codec development and large-scale evaluation, their reliability can be limited, particularly when applied to previously unseen content, novel coding tools, or codec properties that were not well represented during metric design or validation.

Subjective assessment therefore remains a crucial tool for evaluating visual quality and validating objective metrics. However, formal subjective tests with naïve viewers require substantial effort in terms of test design, content preparation, laboratory conditions, participant recruitment, and statistical analysis. This motivates the use of complementary approaches, including expert viewing tests, which can provide faster feedback and support decision-making in codec standardization, while raising important questions about reliability, bias, and suitability for specific evaluation purposes.

This talk discusses the role of subjective and objective quality assessment in video codec evaluation, with a focus on the reliability and applicability of metrics for specific use cases. It will report on streamlined testing efforts carried out in the context of JVET and MPEG meetings, where efficient assessment procedures are used to support technical decisions. In addition, results from the MPEG AG 5 CVQM activity will be presented, highlighting how such resources can help analyze metric behavior and improve confidence in compression performance evaluation. CVQM provides a dataset of compressed video for the study of quality metrics, including HD and UHD test sequences encoded with conventional and learning-based codecs.

17:00-18:00 **Keynote I**

Title: Modeling in an Ego-Sensed World
Speaker: Dima Damen
Forecasting the rise of wearable devices equipped with audio-visual feeds and onboard spatial sensors, this talk will present novel approaches for generative and perception modelling in egocentric videos. The talk argues for new ways to foresee egocentric videos as partial observations of a dynamic 3D world, where objects are out of sight but not out of mind and activities take place in a physically-grounded space. I will review new data collection and digital twin annotations in HD-EPIC (https://hd-epic.github.io/) that merges video understanding with 3D modelling, showcasing current failures of VLMs in understanding the perspective outside the camera's field of view — a task trivial for humans.

Bio: Dima Damen is a Professor of Computer Vision at the University of Bristol and Senior Research Scientist at Google DeepMind. Dima is currently an EPSRC Fellow (2020-2026), focusing her research interests in the automatic understanding of object interactions, actions and activities using wearable visual (and depth) sensors. She is best known for her leading works in Egocentric Vision, and has also contributed to novel research questions including mono-to-3D, video object segmentation, assessing action completion, domain adaptation, skill/expertise determination from video sequences, discovering task-relevant objects, dual-domain and dual-time learning as well as multi-modal fusion using vision, audio and language.



She is part of the large-scale consortium effort Ego4D and Ego-Exo4D. She is an ELLIS Fellow, associate editor (AE) of IJCV, and was a programme chair for ICCV 2021 and Associate Editor-in-Chief (AEIC) of IEEE TPAMI (2023-2025). She is frequently a Senior Area Chair and Area Chair in major conferences and was selected as Outstanding SAC in ECCV 2024 and Outstanding Reviewer in CVPR2021, CVPR2020, ICCV2017, CVPR2013 and CVPR2012. Dima received her PhD from the University of Leeds (2009), joined the University of Bristol as a Postdoctoral Researcher (2010-2012), Assistant Professor (2013-2018), Associate Professor (2018-2021) and was appointed as chair in August 2021. She supervises 9 PhD students and 3 Visiting PhD students.

Interdisciplinary Centre for Security, Reliability and Trust

The Interdisciplinary Centre for Security, Reliability and Trust (SnT) is the University of Luxembourg's research centre for digital innovation. SnT conducts internationally competitive research in areas including autonomous systems, cybersecurity, fintech, space systems, artificial intelligence, and quantum technologies.



The centre's unique Partnership Programme includes over 70 industry, government, and societal partners, ensuring real-world challenges shape research and research fuels innovation. This collaborative approach delivers lasting strategic advantages, strengthens Luxembourg's digital sovereignty, and serves society.

At SnT, we advance trustworthy and sustainable AI that can perceive, reason and operate reliably in the real world. Our research in computer vision, image analysis and multimodal intelligence transforms visual, linguistic, audio and sensor data into meaningful insights. From deepfake detection and scene understanding to 3D reconstruction, Earth observation, space systems and Edge AI, we combine scientific excellence with industry collaboration to develop robust, efficient and impactful technologies.



- **08:30 - 08:45** Opening Remarks
- **08:45 - 09:45** Keynote Elisa Ricci
- **09:45 - 10:30** Demo Session Tour
- **10:00 - 10:30** Coffee Break

Sessions run in parallel

- **10:30 - 12:30** Oral Paper Session
- **12:30 - 13:45** Lunch
- **13:45 - 15:45** Oral Paper Session
- **15:45 - 16:45** Poster Session
- **16:00 - 16:30** Coffee Break
- **16:45 - 17:30** Panel Discussion

Demo Area Open All Day





08:45-09:45 Keynote II

Title: Rethinking Multimodal AI Models: Beyond Accuracy, Towards Trust
Speaker: Elisa Ricci
The rapid adoption of Large Multimodal Models is reshaping smart technologies, while simultaneously raising fundamental questions about trust, safety, and accountability. Moving beyond traditional performance metrics, real-world deployment demands a deeper understanding of model behavior under uncertainty, bias, and privacy constraints.

This talk presents a perspective on Trustworthy AI approaches, with a focus on vision-language tasks, across five interconnected dimensions: (i) eXplainable AI for making multimodal decisions transparent; (ii) bias discovery and mitigation through scalable and automated approaches; (iii) automatic benchmarking frameworks for robust evaluation of Large Multimodal Models; (iv) uncertainty quantification as a foundation for reliable decision making; and (v) privacy-based learning, including privacy leakage analysis, unlearning and federated learning. The talk concludes by outlining open research challenges toward principled and socially aligned AI systems for the next generation of smart technologies.

Bio: Elisa Ricci is a Professor at the University of Trento and Head of the Research Unit Deep Visual Learning at Fondazione Bruno Kessler. Her research lies at the intersection of computer vision, deep learning, and robotics perception. She is interested in developing novel approaches for learning from visual and multi-modal data in an open world. Elisa received her MSc and PhD from the University of Perugia and has held positions at Idiap Research Institute, Fondazione Bruno Kessler and as visiting researcher at ETH Zurich and the University of Bristol. She has co-authored over 200 scientific publications with broad impact in vision and learning research. She was the General Co-Chair of ACM ICMR 2025 and Programme Co-Chair of ACM MM 2022 and ECCV 2024. Her group has received many best paper awards, including Best Paper Award at ACM MM 2015. She serves on the editorial boards of several international journals, such as Pattern Recognition and Computer Vision and Image Understanding. Elisa has led and contributed to multiple national and EU research projects, including H2020 and HE projects such as SPRING and ELLIOT. She is an ELLIS and a IAPR Fellow.

10:30-11:42 — **Special Session I**

Medical Imaging (*Nour Aburaed & Marouane Taliba*)

[**170**] Cross-Modal Statistical Characterisation of Deep Ultrasound and Histopathology Features in Thyroid Cancer
Dhanalakshmi Venugopal (Sultan Qaboos University)

[**172**] Privacy-Utility Tradeoff in Synthetic Medical CT Images: A Comprehensive Evaluation Across Generative Models
Alexandra Andrei (National University of Science and Technology POLITEHNICA Bucharest); Bogdan Ionescu (National University of Science and Technology POLITEHNICA Bucharest)

[**19**] MRI-Free 3D Fibroid Reconstruction from 2D Ultrasound Using Unsupervised Cross-Modal Volume Learning
Navya Sharma(International Institute of Information technology, Bangalore); Madhav Rao (International Institute of Information technology, Bangalore)

[**113**] Learning to Predict Platinum Response from Histopathology in High-Grade Serous Ovarian Cancer
Asfand Yaar (University of Galway); Davood Roshan (University of Galway)

[**115**] End-to-End Quality-Aware Deep Learning Framework for Glaucoma Detection from Fundus Images
El-mehdi CHAKOUR (Gaspard Monge Computer Science Laboratory, ESIEE Paris Gustave Eiffel University); Rostom KACHOURI (Gaspard Monge Computer Science Laboratory, ESIEE Paris Gustave Eiffel University); Mohamed AKIL (Gaspard Monge Computer Science Laboratory, ESIEE Paris Gustave Eiffel University)

[**114**] Enhancing Interactive Annotation in Digital Pathology with Foundation Models
Thibaud Vanmechelen (University of Liège); Noé Gille (University of Rouen); Ba Thien Le (University of Liège); Pierre Geurts (University of Liège); Raphaël Marée (University of Liège)

11:42-12:30 — **Oral Session I**

Deep Learning Evaluation (*Carl Debono*)

[**77**] Does base-to-novel few-shot learning for vision-language models actually work?
Clément Fuchs (UCLouvain); Maxime Zanella (UClouvain, UMons); Christophe De Vleeschouwer (UCLouvain)

[**135**] The Neural Echo: A Signal Processing Perspective for Understanding Neural Networks
Chongbiao Wang (Saarland University/ Zuse School ELIZA); Daniel Gaa (Saarland University); Joachim Weickert (Saarland University); Karl Schrader (Saarland University)

[**6**] An Insight on Evaluation Metrics Under the Imbalanced Case of Anomaly Detection
Romain Hermary (University of Luxembourg); Nesryne Mejri (University of Luxembourg); Djamila Aouada (University of Luxembourg)

[**161**] Ground-Based Cloud Image Classification using Convolutional Neural Networks and Vision Transformers: A Systematic Comparison
Ana Carolina Uehara (Universidade de Brasília); Vinicius R. P. Borges (Universidade de Brasília)

13:45-14:57 — **Oral Session II**

Image and Video Coding (*Mihai Mitrea*)

[**72**] Non-rectangular transform coding in AV1 using Shape-adaptive DCT
Priyanka Das (RWTH Aachen University); Tim Classen (RWTH Aachen University); Jan Schneider (RWTH Aachen University); Mathias Wien (RWTH Aachen University)

[**75**] Enhanced GOP-Based RPR for Low-Complexity Video Coding
Tim Classen (RWTH Aachen University); Priyanka Das (RWTH Aachen University); Jan Schneider (RWTH Aachen University); Mathias Wien (RWTH Aachen University)

[**79**] Optimized Arithmetic Coding Context Design for Sparse Coefficients of Partitioned DCT-based Transforms
Fabian Pracht (RWTH Aachen University); Priyanka Das (RWTH Aachen University); Mathias Wien (RWTH Aachen University)

[**116**] A Cross-Dataset Benchmark of Objective Quality Metrics for 3D Gaussian Splatting Compression
Saeed Mahmoudpour (imec - ETRO - VUB); Stuart Perry (University of Technology Sydney)

14:57-15:45 — **Oral Session III**

Industrial Inspection (*Samia Ainouz*)

[**8**] OED-Lite: An Efficient Encoder–Decoder Architecture for Automated Crack Segmentation
Michal Oszczudlowski (School of Computing, Engineering and Physical Sciences, University of the West of Scotland); Jacob Koenig (School of Computing, Engineering and Physical Sciences, University of the West of Scotland); Ryan M. Gibson (School of Computing, Engineering and Physical Sciences, University of the West of Scotland); Gordon Morison (School of Computing, Engineering and Physical Sciences, University of the West of Scotland)

[**17**] PCB-MC: Missing Component Detection and Recognition in Printed Circuit Boards
Betsy Villa Brochero (University of Twente); Estefania Talavera (University of Twente); Ian Gibson (University of Twente)

[**81**] Multi-Modal, Training-Free Crack Extraction via Generalized Frangi Graph
Louis Hauseux (Inria); Raphaël Antoine (Cerema); Philippe Foucher (Cerema); Pierre Charbonnier (Cerema); Josiane Zerubia (Inria)

[**48**] PRISM 2: Battery Degradation Assessment through Multi-task and Multi-Modal Physics-Informed Deep Framework
Hazem Musallam (Univerisity of Luxembourg); Enjie Ghorbel (University of Manouba); Tedjani Mesbahi (Université de Strasbourg); Djamila Aouada (Univeristy of Luxembourg)

[**123**] Comparative Experimental Validation of a Three-Dimensional Electro-Thermal Model for Cylindrical LFP and NMC Lithium-Ion Cells
Hayfae Ttaoud el Hassani (INSA Strasbourg); Tedjani Mesbahi (INSA); Joya Maria Saade (INSA Strasbourg); Ibrahim bel-hadj (Université de Strasbourg); Evelyne Martin (CNRS); Caio FONSECA DE FREITAS (Insa Strasbourg)

[**100**] Layup or Letdown? Detecting Defects in Glass Fiber Composite Layups with Unsupervised Anomaly Detection
Jonathan Bøss (*University of Southern Denmark*); Jakob Wilm (*University of Southern Denmark*)

15:45-16:45 — **Poster Session I**

All papers presented in Special and Regular Oral Sessions. Paper IDs: 72, 75, 79, 116, 8, 17, 81, 48, 123, 100, 77, 135, 6, 114, 115, 170, 172, 19, 102, 113

DEEP is the leading ICT partner for businesses, institutions and organisations undergoing digital transformation in Luxembourg, France and internationally. With a workforce of over 750 employees, DEEP covers the entire digital value chain through its key areas of expertise: Cloud, Data & AI, Data Centres, Telecoms, ICT Infrastructure and Cybersecurity.



Backed by one of Europe's most resilient ICT infrastructures – including three Tier IV-certified data centres and high-performance connectivity networks – DEEP offers integrated support, ranging from strategic consultancy to the operational management of digital environments for businesses of all sizes. This ability to cover the entire technological spectrum makes it a one-stop partner for organisations seeking to modernise their systems, strengthen their resilience and boost their competitiveness.

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- **08:45 - 09:45**
  Keynote Fatma Güney
- **09:45 - 10:30**
  Demo & Exhibition Tour
- **10:00 - 10:30**
  Coffee Break

  Sessions run in parallel
- **10:30 - 12:30**
  Oral Paper Session
- **12:30 - 13:45**
  Lunch
- **13:45 - 15:45**
  Oral Paper Session
- **15:45 - 16:45**
  Poster Session
- **16:00 - 16:30**
  Coffee Break
- **16:45 - 17:30**
  Panel Discussion
- **18:15 - 19:00**
  Transfer to Grevenmacher
- **19:00 - 23:00**
  Gala Dinner on a river cruise
- **23:00 - 23:45**
  Transfer back to Parc Alvisse

Demo Area
Open All Day

08:45-09:45 — Keynote III

Title: Is Computer Vision Ready for Autonomous Systems?
Speaker: Fatma Güney
Computer vision is, in many ways, finally working. We are witnessing a shift toward agents that can leverage the reasoning capabilities of large models, alongside major advances in 3D scene understanding and long term point tracking, even under severe occlusions. But what do these developments actually mean for the success of autonomous systems in the real world, such as cars or robots?
Can large models operate under real time and memory constraints? Can detailed 3D models or capable trackers be deployed on embodied platforms, for example to reconstruct a tabletop scene or to track points from the ego view of a robot? And, crucially, are these systems safe enough? Do they anticipate danger, reason under uncertainty, and recognize their own failures? In my group, we study these questions at the intersection of computer vision and robotics, evaluating vision models in realistic settings to create a feedback loop that prioritizes robustness, safety, and uncertainty aware decision making under practical constraints.

Bio: Fatma Güney is an Assistant Professor at the Department of Computer Engineering at Koç University in Istanbul. Previously, she was a postdoctoral researcher in the Visual Geometry Group (VGG) at the University of Oxford, working with Andrea Vedaldi and Andrew Zisserman. She completed her Ph.D. at the Max Planck Institute for Intelligent Systems, under the supervision of Andreas Geiger. Her research focuses on computer vision for autonomous driving. In recent years, she has published work on topics such as 3D Gaussian Splatting, point tracking, and end-to-end learning of autonomous driving. She leads a small research group with amazing students. They work on a broad range of topics at the intersection of computer vision and autonomous driving. The group welcomes applications from enthusiastic students. Those interested can check the available open positions.



10:30-11:30 — **Special Session II**

Multimodal Data Fusion and Visual AI for Earth Observation (*Nicla Notarangelo & Miguel Fernández-Torres*)

[**18**] An Empirical Study of Temporal Adaptation of Frozen MultiMAE Features for Real-World Crop-Type Segmentation
Nicla Notarangelo (University of Luxembourg); Rim Sleimi (Hydrosat); José Sosa (Hydrosat); Albert Abelló (Hydrosat); Anis Kacem (University of Luxembourg); Djamila Aouada (University of Luxembourg)

[**174**] Spatiotemporal Fusion of MODIS and Landsat Land Surface Temperature for Building-Level Energy Efficiency Analysis in Vaasa, Finland
Sema Çil (University of Vaasa); Elham Ahmadi (University of Vaasa)

[**180**] Evaluating the Generalization of a Pretrained Sentinel-1 SAR Flood-Mapping Model to Swedish Landscapes
Stefan Edvinsson (Karlstad University)

[**14**] A Large-Scale Multispectral Sentinel-2 Crop Dataset for Visual Information Processing in Agriculture
Rodrigo Pascual-García (Universidad de Burgos); Jose Francisco Diez-Pastor (Universidad de Burgos); Pedro Latorre-Carmona (Universidad de Burgos); Pablo Pérez-Núñez (Universidad de Oviedo); Gustau Camps-Valls (Universitat de València); Jose Manuel Aroca-Fernández (Universidad de Burgos)

[**66**] Open-World Object Detection in Aerial Imagery via Vision-Language Guided Discovery and Active Learning
Bill Cassidy (Manchester Metropolitan University)

11:30-12:30 — **Oral Session IV**

3D Vision, Scene Understanding and SLAM (*Aladine Chetouani)*

[**20**] BIM-Native Tokenization for Constraint-Aware Room Layout Synthesis
Manuel Ladron de Guevara (Carnegie Mellon University); Jinmo Rhee (University of Calgary); Ardvan Bidgoli (Higharc); Vaidas Razgaitis (Higharc); Michael Bergin (Higharc)

[**141**] PlenoGS: Direct 3D Gaussian Splatting Training from Plenoptic Camera Images
Alexandre Bienfait (Université Libre de Bruxelles); Sarah Dury (Université Libre de Bruxelles); Daniele Bonatto (Université Libre de Bruxelles)

*[***107**] Empowering Scene Understanding for the Blind Through Open-Vocabulary Object Recognition
Cong Liu (Karlsruhe Institute of Technology); Jiale Wei (Karlsruhe Institute of Technology); Junwei Zheng (Karlsruhe Institute of Technology); Ruiping Liu (Karlsruhe Institute of Technology); Yufan Chen (Karlsruhe Institute of Technology); Jie Hu (Hunan University); Zichao Zeng (University College London); Jiaming Zhang (Hunan University); Rainer Stiefelhagen (Karlsruhe Institute of Technology)

[**120**] ARB12: Addressing Geographic and Semantic Bias in Urban Street-View Segmentation for Arab Cities
Dalia Alharbi (King Khalid University); Mohamed Elawady (The University of Strathclyde)

13:45-14:30 — **Oral Session V**

Biometrics, Forenesics and Deepfake Detection (*Nesryne Mejri*)

[**7**] Forensic Recognition of Still Image Compression Formats under JPEG Re-Compression
Dominik Krah (University of Salzburg); Nader Bazyari (University of Salzburg); Itxasne Antunez-Saenz (University of Salzburg); Lukas Schwaiger (University of Salzburg); Andreas Uhl (University of Salzburg)

[**9**] Deepfake Image Detection Using Deep Learning Approaches
Hripsime Soghomonyan (American University of Armenia); Aram Butavyan (American University of Armenia)

[**103**] Offline Signature Verification via Character-Level Name Conditioning
Chung-Hsuan Tang (National Kaohsiung Normal University); Chi-Han Lin (E.SUN Bank); Yi-Ren Yeh (National Kaohsiung Normal University)

[**150**] Patch-Level Fourier Spectra for Detecting Diffusion-Generated Faces
Gevorg Karapetyan (Institute for Informatics and Automation Problems, National Academy of Sciences of the Republic of Armenia); Sergey Abrahamyan (Institute for Informatics and Automation Problems, National Academy of Sciences of the Republic of Armenia); Karen Eguiazarian (Tampere University)

14:30-15:45 — **Oral Session VI**

Vision for Earth and Space (*Mohamed Adel Ali*)

[**11**] CityWatcher: Leveraging low-resolution priors for very-high-resolution building mapping
Anis Amziane (Luxembourg Institute of Science and Technology (LIST)); Marco Chini (Luxembourg Institute of Science and Technology (LIST)); Yu Li (Luxembourg Institute of Science and Technology (LIST)); Patrick Matgen (Luxembourg Institute of Science and Technology (LIST))

[**76**] Multi-Crop Leaf Disease Recognition: A Unified Benchmark and Cross-Region Study
Rosemary Nalwanga (University of Twente); Sebastian Bunda (University of Twente); Luuk Spreeuwers (University of Twente); Godliver Owomugisha (Busitema University); Estefanía Talavera Martínez (University of Twente)

[**153**] Learning Spectral Reconstruction from RGB with Unregistered Low-Resolution Hyperspectral Image Guidance
Shushik Avagyan (Tampere University); Jarkko Pekkarinen (Huawei Technologies Finland); Vladimir Katkovnik (Tampere University); Karen Eguiazarian (Tampere University)

[**158**] MDWD: A Street-Level Dataset for Municipal Solid Waste Detection in Dense Urban Environments
Andrea Filiberto Lucas (University of Malta); Mark Bugeja (University of Malta); Carl James Debono (University of Malta); Dylan Seychell (University of Malta)

[**83**] Event Camera-Based Spacecraft Ego-Motion Estimation for Autonomous Lunar Landing
Ala Souissi (University of Luxembourg); Arunkumar Rathinam (University of Luxembourg); Djamila Aouada (University of Luxembourg)

[**108**] Iterative Hybrid Discrete-Continuous Viewpoint Planning for UAV Photogrammetry
Alan Grech (University of Malta); Daniel Pisani (University of Malta); Andre Grima (Stargate Studios); Carl Debono (University of Malta); Saviour Formosa (University of Malta); Dylan Seychell (University of Malta)

15:45-16:45 — **Poster Session II**

All papers presented in Special and Regular Oral Sessions. Paper IDs: 11,76,153,158,83,108, 7,9,103,150, 20,141,107,120, 18,174, 180, 14, 66,190.

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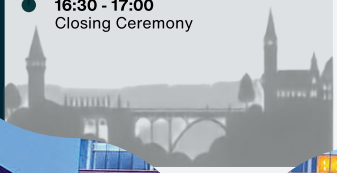
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- **08:45 - 09:45** Keynote Silvia Zuffi
- **09:45 - 10:30** Student Session (Part I)
- **10:00 - 10:30** Coffee Break

  (Sessions run in parallel)
- **10:30 - 12:30** Oral Paper Session
- **12:30 - 13:45** Lunch
- **13:45 - 15:45** Oral Paper Session
- **15:45 - 16:45** Student Session (Part II)
- **16:00 - 16:30** Coffee Break
- **16:30 - 17:00** Closing Ceremony



08:45-09:45 Keynote IV

Title: Understanding Animals from Visual Data
Speaker: Silvia Zuffi
Understanding animals from visual data is a complex challenge with important applications in ecology, veterinary science, robotics, and computer graphics. In this talk, I will present our work toward automatic 3D and 4D reconstruction of animals, focusing on the development of realistic and controllable animal models. I will show how these models can be used to infer the 3D pose and shape of animals from images and video, ultimately providing a foundation for the development of automated methods for behaviour analysis.

Bio: Silvia Zuffi is a Senior Research Scientist at the IMATI (Institute of Applied Mathematics and Information Technologies) of the Italian National Research Council (CNR) in Milan. She holds a PhD in Computer Science from Brown University, where her thesis focused on “Shape models of the human body for distributed inference” under the supervision of Prof. Michael J. Black. Her academic background also includes a degree in Electronic Engineering from the University of Bologna. She held also a postdoctoral position at the Perceiving Systems group of the Max Planck Institute for Intelligent Systems (Tübingen, Germany). Her research lies at the intersection of computer vision, graphics, and machine learning, with a special emphasis on pose and shape estimation for humans and animals from images and video data. Over her career, she has contributed to realistic modeling of articulated bodies, and the development of generative models for animal 3D shape and pose reconstruction. Her earlier work includes research in color imaging, multispectral imaging, and visual perception. Silvia’s ongoing projects address challenges in reconstructing 3D shape and pose of animals from “in the wild” imagery, contributing tools for applications in ecology, conservation, animal wellness and visual computing.

10:30-11:30 — **Special Session III**

Multimodal Face & Body Analysis and Generation (*Claudio Ferrari*)

[**185**] Seamless Style Interpolation for Real-Time Motion Synthesis
Antonios Belesis (University of Patras); Konstantinos Moustakas (University of Patras)

[**21**] MoTop: Motion-Topological Model For Micro AU Detection
Huai Qian Khor (University of Oulu); Mengting Wei (University of Oulu); Yante Li (University of Oulu); Chu Kiong Loo (University Malaya); Guoying Zhao (ELLIS Institute Finland)

[**22**] Towards Localized Fine-Grained Control for Facial Expression Generation
Tuomas Varanka (University of Oulu); Huai Qian Khor (University of Oulu); Yante Li (University of Oulu); Mengting Wei (University of Oulu); Hanwei Kung (University of Trento); Nicu Sebe (University of Trento); Guoying Zhao (ELLIS Institute Finland)

[**64**] STIN: A Socio-Temporal Interaction Network for Dyadic Interaction Analysis
Maaz Ahmed (Hamad Bin Khalifa University); Mohamad Hassan Fadi Hijab (Hamad Bin Khalifa University); Dena Al-Thani (Hamad Bin Khalifa University); Marwa Qaraqe (Hamad Bin Khalifa University)

[**137**] A Study of Unsupervised Domain Adaptation for Skeleton-Based Human Rehabilitation Assessment
Javidan Abdullayev (University of Haute Alsace); Maxime Devanne (University of Haute Alsace); Cyril Meyer (University of Haute Alsace); Ali Ismail-Fawaz (University of Haute Alsace); Jonathan Weber (University of Haute Alsace); Germain Forestier (University of Haute Alsace)

11:30-12:30 — **Oral Session VII**

Detection, Recognition and Segmentation (*Estefania Talavera*)

[**10**] Prediction of Chess Themes and Player Weakness Identification
Veronika Khachatryan (American University of Armenia); Aram Butavyan (American University of Armenia)

[**70**] Shipboard Optical Character Detection and Recognition for Scene Understanding
Chelsea Mediavilla (NIWC Pacific); Shane Wechsler (Alutiiq LLC.); Lena Nans (NIWC Pacific); Jane Berk (Alutiiq LLC.); Michael Hess (Alutiiq LLC.); Mark Bilinski (NIWC Pacific); Raymond Provost (NIWC Pacific)

[**16**] DetVIB: Task-Aware Pruning via Variational Information Bottleneck for Object Detection
Nidhal Eddine Chenni (University of Luxembourg); Peyman Rostami (University of Luxembourg); Anis Kacem (University of Luxembourg); Djamila Aouada (University of Luxembourg)

[**139**] Open-Vocabulary Object Detections in Object-Aided SLAM: A Preliminary Study
Dinojan David Anton (Loria); Vincent Gaudilliere (Loria); Gilles Simon (Loria); Marie-Odile Berger (Inria)

[**102**] Automatic Segmentation of Porcine Lung Tensile Specimens for Mechanical Characterization
Baptiste Magnier (IMT Mines Ales CERIS); Sarah Iaquinta (IMT Mines Ales)

13:45-14:45 — **Oral Session VIII**

Image Filtering, Restoration and Enhancement (*Renato Baptista*)

[**4**] Vector Ordering Derived from Binary Partition Tree Leaf Reordering for Mathematical Morphology
Olivier Lézoray (University of Caen Normandy)

[**67**] Joint Denoising, Demosaicing, and Compression: A Recommended Paradigm for Learning-Based Image Workflows
Benoit Brummer (intoPIX, University of Louvain); Christophe De Vleeschouwer (UCLouvain)

[**136**] WGLLIE: Wavelet-Guided Illumination Preconditioning for Low-Light Image Restoration
Bilal Aouinane (University of Saad Dahlab Blida 1); Azeddine Beghdadi (University Sorbonne Paris Nord); Borhene Eddine Dakkar (University Sorbonne Paris Nord); Azzedine Zerguine (KFUPM); Stefania Colonnese (Sapienza University of Rome); Abderrahmane Namane (University of Saad Dahlab Blida 1)

[**125**] A Computational Approach to Retinal-inspired Vision Processing for Edge Detection
Yen Lau (Newcastle University); Boguslaw Obara (Newcastle University); Deepayan Bhowmik (Newcastle University)

[**133**] Towards High-Fidelity 3D Denoising of Low-Dose CT Scans
João Guerreiro (INESC-ID); Pedro Tomás (INESC-ID); Jacinto Nascimento (ISR-Lisboa); Helena Aidos (LASIGE)

14:45-15:45 — **Student Session Part II**

Student Session Chairs: *Shekoufeh Gorgi Zadeh & Marouane Taliba*

[**146**] Usability Evaluation of World Model Studio
Melisa Atish (Breda University of Applied Sciences); Carlos Santos (Breda University of Applied Sciences)

[**169**] Security Investigation of Masking Operations for Controllable Watermarking in Image Generation
Mateo Zoughebi (Télécom Sud Paris); Mihai Mitrea (Télécom Sud Paris); Hakima Chaouchi (IMT)

[**176**] Phantom Leakage: Finding Leakage Where It Does Not Exist
Paweł Borsukiewicz (University of Luxembourg); Daniele Lunghi (University of Luxembourg); Wendkûuni C. Ouédraogo (University of Luxembourg); Jacques Klein (University of Luxembourg); Tegawendé F. Bissyandé (University of Luxembourg)

[**177**] Have I Seen You? Embedding Behavior Signals Synthetic Face Dataset Membership
Paweł Borsukiewicz (University of Luxembourg); Daniele Lunghi (University of Luxembourg); Wendkûuni C. Ouédraogo (University of Luxembourg); Jacques Klein (University of Luxembourg); Tegawendé F. Bissyandé (University of Luxembourg)

[**178**] A Corrective Prior with Bounded Reach: Adjacent-Slice ControlNet Conditioning for Single-Anchor MRI Volume Propagation
Aleena Iifiya Jeffy (University of Dubai); Mohammed Q. Alkhatib (University of Dubai); Marouane Tliba (University of Orléans); Aladine Chetouani (Institut Galilée - Université Sorbonne Paris Nord); NourAburaed (University of Dubai)

[**181**] Computational Visual Perception and Physics-Informed Learning for Quality-Driven Low-Dose CT Imaging
Taifour Yousra Nabila (University Sorbonne Paris Nord); Azeddine Beghdadi (University Sorbonne Paris Nord); Zuheng Ming (University Sorbonne Paris Nord); Luong Marie (University Sorbonne Paris Nord)

[**182**] Question-Guided Temporal Memory for Training- Free Video Question Answering
Alireza Ahmadi (Shahed University); Alireza Behrad (Shahed University)

13:45-14:45 **Student Session Part II**

[**186**] Circular Hue-Consistency for RGB-Domain Low-Light Image Enhancement
Bilal Aouinane (University of Saad Dahlab Blida 1); Azeddine Beghdadi (University Sorbonne Paris Nord); Abderrahmane Namane (University of Saad Dahlab Blida 1)

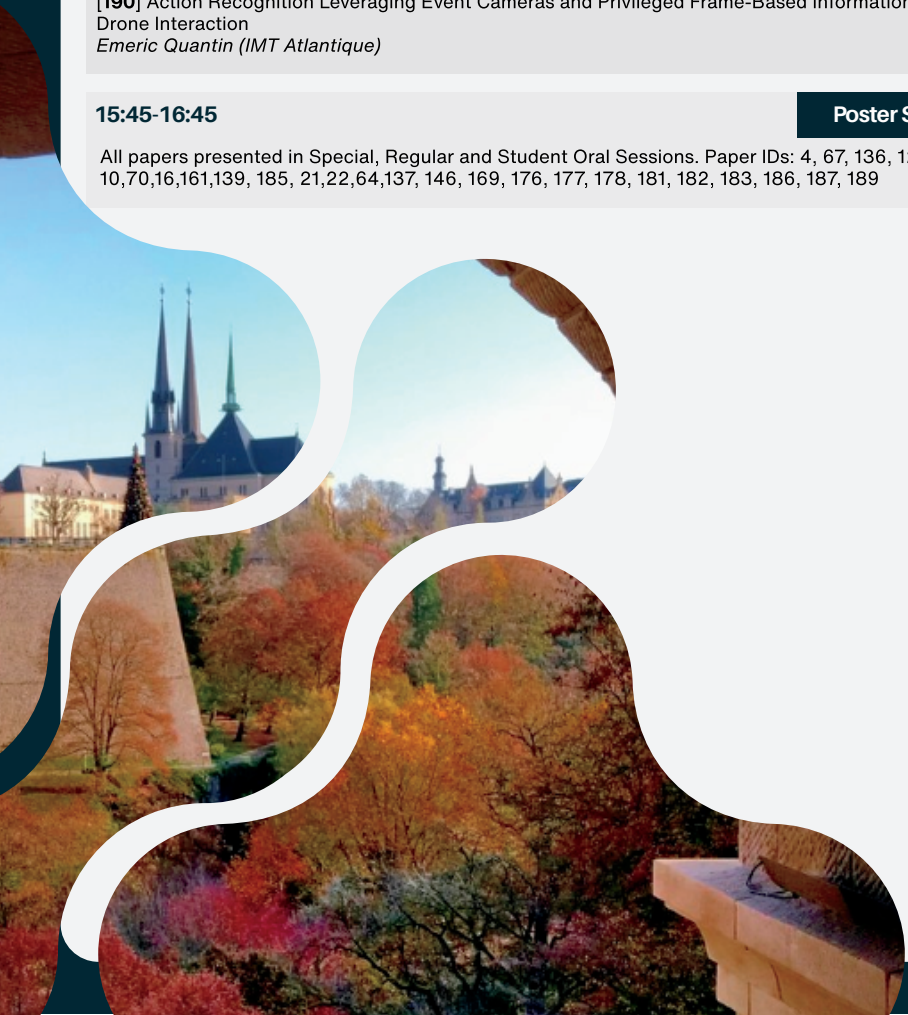
[**187**] Hue-Preserving Color Image Enhancement Using Wavelet-Decomposition and Color-Consistency Constraints
Bilal Aouinane (University of Saad Dahlab Blida 1); Azeddine Beghdadi (University Sorbonne Paris Nord); Abderrahmane Namane (University of Blida 1)

[**189**] Cross-Domain Structural Visibility Learning for Low-Dose CT Image Quality Enhancement
Taifour Yousra Nabila (University Sorbonne Paris Nord); Azeddine Beghdadi (University Sorbonne Paris Nord); Zuheng Ming (University Sorbonne Paris Nord); Marie Luong (University Sorbonne Paris Nord); Marouane Tliba (University Sorbonne Paris Nord); Aladine Chetouani (University Sorbonne Paris Nord)

[**190**] Action Recognition Leveraging Event Cameras and Privileged Frame-Based Information for Human-Drone Interaction
Emeric Quantin (IMT Atlantique)

15:45-16:45 **Poster Session III**

All papers presented in Special, Regular and Student Oral Sessions. Paper IDs: 4, 67, 136, 125, 133, 10,70,16,161,139, 185, 21,22,64,137, 146, 169, 176, 177, 178, 181, 182, 183, 186, 187, 189



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