ANTONINO FURNARI

University of Catania, Department of Mathematics and Computer Science

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SHORT BIO

Antonino Furnari (http://www.antoninofurnari.it) is an assistant professor at the Department of Mathematics and Computer Science, University of Catania, Italy. In April 2021, he has achieved the "Abilitazione Scientifica Nazionale" (ASN) for sectors "01/B1 Informatica" and "09/H1 Sistemi di Elaborazione delle Informazioni". He received (both summa cum laude) the bachelor's degree in computer science and the master's degree in computer science from the University of Catania in 2010 and 2013 respectively. He was awarded the Ph.D. in Computer Science from the University of Catania in 2017. From April 2017 to February 2020, he has been a Research Assistant at the Department of Mathematics and Computer Science, University of Catania, Italy. Since 2017, he has been a contract professor at University of Catania, where he taught graduate and undergraduate courses, whereas, since A.Y. 2017/2018, he coordinates the "Reading Gorup" PhD course at the PhD in Computer Science, University of Catania. His research interests are in the field of Computer Vision, with focus on First Person (Egocentric) Vision for scene understanding, object-interaction recognition and anticipation, image-based localization, visual navigation, and user behavioral understanding, and emphasis on real applications in different contexts in which a user can be equipped with a wearable device (e.g., Cultural Heritage, Assistive Technologies, Industrial scenarios). Since 2012, he has been scientifically involved in different public and private research projects granted by ENIAC Program EU, MISE, Xenia Network Solutions, Horizon 2020-ITN-EID, PO FESR 2014/2020. Antonino Furnari

has supervised or co-supervised more than 20 undergraduate/graduate students during their Bachelor/Master degree, has co-supervised 3 Ph.D. students and is currently supervising 4 Ph.D. students. Antonino Furnari has authored 22 articles in international journals and 46 papers in international conference proceedings. He is co-inventor of 2 patents involving industrial partners. In 2014, 2015, and 2019 he was awarded the "Top 10% Paper Award" at the International Conference on Image Processing (ICIP). His papers have been published as oral in CVPR 2022 (Top-5% + best paper finalist), ICCV 2019 (TOP-4.3%) and ECCV 2018 (TOP-2.42%). In 2018 he has been recognized as "top reviewer for Cross-Field" by PUBLONS, whereas he has been recognized as "outstanding reviewer" by the CVPR 2020 and ICCV 2021 conferences. In 2021 he won the "Borsa della Ricerca Award" with the Next Vision s.r.l. academic spin-off he co-founded. At the date 25/06/22, his Google scholar based bibliometric scores are: h-index: 20, number of journals: 22, number of citations: 1680, whereas his Scopus-based bibliometric scores are: h-index: 15, number of journals in Scopus: 21, number of citations: 837. Dr. Furnari serves as a reviewer for major international journals (IEEE: TPAMI, TIP, TCSVT, TMM, J-BHI, ITSM – Elsevier: PR, PRL, CVIU, ESWA, COMIND – Springer: IJCV, MTA, MVA), and international conferences (CVPR, ICCV, ECCV, NeurIPS, ICLR, WACV, ICRA, AVSS, IJCAI, ACM MM, ICPR, ICIAP). He has been involved in the organization of several scientific events (ICIAP 2017,2021, ACVR workshops since 2016, EPIC workshops since 2018, Ego4D workshop in 2022). In 2020 and 2021 he has been guest editor for IEEE Transactions on Pattern Analysis and Image Intelligence (TPAMI) with a special issue on Egocentric Perception. Since 2021, he serves as an associate editor for The Visual Computer Journal. He has been a visiting scholar at different institutions including The University of Texas at Austin (US), University of Bristol (UK), University of Essex (UK), University of Bern (CH), and Facebook AI Research (US). He collaborates with recognized computer vision groups from academia (University of Texas at Austin: Prof. Kristen Grauman, University of Bristol: Prof. Dima Damen, University of Padova: Lamberto Ballan, University of Udine: Christian Micheloni). Among these, the collaboration with the University of Bristol has led to the collection of EPIC-Kitchens, a large-scale dataset of egocentric videos (http://epic-kitchens.github.io), and the definition and maintenance of its related computer vision challenges. The collaboration with the University of Texas has led to the participation in the EGO4D consortium (http://ego4d-data.org) of 15 university in partnership with Facebook AI that collaborates to advance egocentric perception. Since 2021, has is co-founder and Chief R&D Officer of the Next Vision s.r.l. spin-off of the University of Catania (http://nextvisionlab.it), whose mission is to build innovative Artificial Intelligence technologies to make machines able to perceive and understand the world exploiting fixed, mobile, and wearable cameras.

Bibliometric Indices

Scopus Bibliometric Scores (accessed on 19 december 2022)

- H-index: 15
- Number of journal papers: 23
- Number of citations: 946

Google Scholar Bibliometric Scores (accessed on 19 december 2022)

- H-index: 23
- Number of journal papers: 23
- Number of citations: 2102

Habilitations

29/04/2021	ABILITAZIONE II FASCIA SETTORE CONCORSUALE 01/B1 - INFORMATICA

Valid through 29/04/2030

14/04/2021 | **ABILITAZIONE II FASCIA SETTORE CONCORSUALE 09/H1 - SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI**
Valid through 14/04/2030

AFFILIATIONS

SEPT. 2022
PRESENT | **ASSISTANT PROFESSOR**
Department of Mathematics and Computer Science, University of Catania (IT)

MAR. 2020
AUG. 2022 | **RESEARCH FELLOW**
Department of Mathematics and Computer Science, University of Catania (IT)
AIM - Attraction and International Mobility. Codice Proposta AIM1893589
Research Topic: Prediction of actions and object interactions from images and videos acquired through wearable cameras

APR. 2017
FEB. 2020 | **POSTDOCTORAL RESEARCHER**
Department of Mathematics and Computer Science, University of Catania (IT)
Supervised by: Dr. Giovanni Maria Farinella.
Research Topic: Egocentric Vision Systems for Scene Understanding.

2017
2020 | **CONTRACT PROFESSOR**
Department of Mathematics and Computer Science, University of Catania (IT)

SEPT. 2015
NOV. 2015 | **CONTRACT PROFESSOR**
Fondazione Istituto Tecnico Superiore "Steve Jobs" (IT)

2013
2016 | **PHD STUDENT IN MATHEMATICS AND COMPUTER SCIENCE**
University of Catania (IT)
Supervised by: Dr. Sebastiano Battiato & Dr. Giovanni Maria Farinella.
Thesis: Context Awareness in First Person Vision.

2013
PRESENT | **MEMBER OF THE IPLAB-STMICROELECTRONICS JOINT LABORATORY (IT)**
Department of Mathematics and Computer Science, University of Catania (IT)
STMicroelectronics - AST Computer Vision (IT)

2012
PRESENT | **MEMBER OF THE IPLAB RESEARCH GROUP (IT)**
Department of Mathematics and Computer Science, University of Catania (IT)

EDUCATION

2013
2016 | **PHD IN MATHEMATICS AND COMPUTER SCIENCE**
University of Catania (IT)
Supervised by: Dr. Sebastiano Battiato & Dr. Giovanni Maria Farinella.
Thesis: Context Awareness in Egocentric Vision.

2010
2013 | **MASTER'S DEGREE IN COMPUTER SCIENCE**
University of Catania (IT)
Thesis: Vehicle Tracking In Real-World Video Sequences.

2006 | **BACHELOR'S DEGREE IN COMPUTER SCIENCE**

2010	*University of Catania (IT)*
	Thesis: Valutazioni ed ottimizzazioni di design pattern ad aspetti.

INTERNATIONAL EXPERIENCES

07/01/21 30/09/21	**VISITING SCHOLAR (SMART WORKING)** *Facebook AI Research/University of Texas* *Supervised by:* Dr. Kristen Grauman *Research Topic:* Egocentric Vision for Object Interaction Anticipation
30/07/19 30/08/19	**VISITING SCHOLAR** *University of Bern (CH)* *Supervised by:* Dr. Paolo Favaro *Research Topic:* Unsupervised Video Representations
26/08/18 07/09/18	**VISITING SCHOLAR** *University of Essex (UK)* *Supervised by:* Dr. Dimitri Ognibene *Research Topic:* Egocentric Vision for Robotic Assistance
AUG. 2017	**VISITING SCHOLAR** *University of Bristol (UK)* *Supervised by:* Dr. Dima Damen *Research Topic:* Egocentric Action Anticipation
MAR. 2016 JUL. 2016	**VISITING SCHOLAR** *University of Texas at Austin (US)* *Supervised by:* Dr. Kristen Grauman *Research Topic:* Next Active Object Prediction from Egocentric Videos

PROFESSIONAL ACTIVITIES

MEMBER OF THE EDITORIAL BOARD OF JOURNALS

2021 PRESENT	**ASSOCIATE EDITOR OF THE VISUAL COMPUTER JOURNAL** Associate Editor of The Visual Computer Journal
2021	**GUEST EDITOR OF FRONTIERS IN COMPUTER VISION SPECIAL ISSUE** Guest Editor of the Frontiers in Computer Vision special issue on Machine Vision for Assistive Technologies
2020	**GUEST EDITOR OF PAMI SPECIAL ISSUE** Guest Editor of the IEEE Pattern Analysis and Machine Intelligence special issue on Egocentric Perception (Impact Factor 2019: 17.861)

TEACHING

UNIVERISTY COURSES

A.Y. 21/22	**SOCIAL MEDIA MANAGEMENT** *Dept. of Mathematics and Computer Science, University of Catania (IT)* BSc course in Computer Science — 48 hours — 6 CFU
A.Y. 21/22	**LABORATORY PROGRAMMING** *Dept. of Mathematics and Computer Science, University of Catania (IT)* BSc course in Computer Science — 12 hours — 3 CFU

A.Y. 20/21 | **SOCIAL MEDIA MANAGEMENT**
Dept. of Mathematics and Computer Science, University of Catania (IT)
BSc course in Computer Science — 48 hours — 6 CFU

STATISTICAL LABORATORY
Dept. of Economics and Business, University of Catania (IT)
MSc course in Data Science for Management — 36 hours — 3 CFU

A.Y. 19/20 | **SOCIAL MEDIA MANAGEMENT**
Dept. of Mathematics and Computer Science, University of Catania (IT)
BSc course in Computer Science — 48 hours — 6 CFU

A.Y. 18/19 | **LABORATORIO DI FONDAMENTI DI ANALISI DEI DATI**
Dept. of Mathematics and Computer Science, University of Catania (IT)
MSc course in Computer Science — 24 hours — 3 CFU

A.Y. 17/18 | **LABORATORIO DI FONDAMENTI DI ANALISI DEI DATI**
Dept. of Mathematics and Computer Science, University of Catania (IT)
MSc course in Computer Science — 24 hours — 3 CFU

PHD COURSES

A.Y. 21/22 | **READING GROUP**
Coordination of the Reading Group at the PhD Course of the Department of Mathematics and Computer Science at the University of Catania - XXXVI Ciclo
PhD Course — 24 hours

A.Y. 20/21 | **READING GROUP**
Coordination of the Reading Group at the PhD Course of the Department of Mathematics and Computer Science at the University of Catania - XXXVI Ciclo
PhD Course — 24 hours

A.Y. 19/20 | **READING GROUP**
Coordination of the Reading Group at the PhD Course of the Department of Mathematics and Computer Science at the University of Catania - XXXV Ciclo
PhD Course — 24 hours

A.Y. 18/19 | **READING GROUP**
Coordination of the Reading Group at the PhD Course of the Department of Mathematics and Computer Science at the University of Catania - XXXIV Ciclo
PhD Course — 24 hours

A.Y. 17/18 | **READING GROUP**
Coordination of the Reading Group at the PhD Course of the Department of Mathematics and Computer Science at the University of Catania - XXXIII Ciclo
PhD Course — 24 hours

STUDENT SUPERVISION

SUPERVISION OF PhD STUDENTS

- Dott. Kooshyar Koosari, XXXVII Ciclo. Supervisors: Dott. Antonino Furnari, Prof. Giovanni Maria Farinella;

- Dott. Giovanni Pasqualino, XXXVI Ciclo. Supervisors: Prof. Giovanni Maria Farinella, Dott. Antonino Furnari;

- Dott. Rosario Leonardi, XXXVI Ciclo. Supervisors: Prof. Giovanni Maria Farinella, Dott. Antonino Furnari;

- Dott. Camillo Quattrocchi, XXXVI Ciclo. Supervisors: Prof. Giovanni Maria Farinella, Dott. Antonino Furnari;

CO-SUPERVISION OF PhD STUDENTS

- Dott. Santi Orlando, XXXIII Ciclo, Ph.D. Scholarship Granted by DWord. Supervisor: Prof. Giovanni Maria Farinella. Co-Supervisor: Antonino Furnari;

- Dott. Francesco Ragusa, XXXIII Ciclo. Supervisor: Prof. Giovanni Maria Farinella. Co-Supervisor: Antonino Furnari;

- Dott. Marco Rosano, XXXIV Ciclo, Ph.D. Scholarship Granted by OrangeDev. Supervisor: Prof. Giovanni Maria Farinella. Co-Supervisor: Antonino Furnari;

- Dott. Giuseppe Puglisi, XXXIV Ciclo. Supervisor: Prof. Giovanni Maria Farinella. Co-Supervisor: Antonino Furnari;

- Dott. Ivan Rodin, Ph.D. Scholarship Granted by Marie Sklodowska Curie - Horizon 2020-ITN-EID. Supervisor: Prof. Giovanni Maria Farinella. Co-Supervisors: Antonino Furnari;

- Dott.ssa Ronja Möller, Ph.D. Scholarship Granted by Marie Sklodowska Curie - Horizon 2020-ITN-EID. Co-Supervisors: Prof. S. Battiato, Antonino Furnari;

AWARDS AND ACADEMIC HONORS

2022 — **PAPER ACCEPTED AS ORAL AT CVPR 2022 (295 ORALS OVER 7093 SUBMISSIONS, TOP 4.15%)**

Paper "Ego4D: Around the World in 3,000 Hours of Egocentric Video." accepted for an oral presentation at CVPR 2022 (top 4.15% of submissions) [GII-GRIN-SCIE Class 1, Rating A++, 2018].

The paper was also among the 33 finalists for the best paper award.

2022 — **ECCV 2022 - OUSTANDING REVIEWER AWARD**

Recognized as outstanding reviewer at ECCV 2022 [GII-GRIN-SCIE Class 1, Rating A++, 2021]

2021 — **BDR AWARDS**

Next Vision s.r.l. awarded at the "XII Forum Borsa della Ricerca", 19-21 October - https://www.borsadellaricerca.it/awards/01-01-1970/startime-next-vision/

2021 — **ICCV 2021 - OUSTANDING REVIEWER AWARD**

Recognized as outstanding reviewer at ICCV 2021 [GII-GRIN-SCIE Class 1, Rating A++, 2018]

2020 — **CVPR 2020 - OUSTANDING REVIEWER AWARD**

Recognized as outstanding reviewer at CVPR 2020 - http://cvpr2020.thecvf.com/reviewer-acknowledgements [GII-GRIN-SCIE Class 1, Rating A++, 2018]

2019 — **PAPER ACCEPTED AS ORAL AT ICCV 2019 (187 ORALS OVER 4303 SUBMISSIONS, TOP 4.3%)**

Paper "What Would You Expect? Anticipating Egocentric Actions with Rolling-Unrolling LSTMs and Modality Attention" accepted for an oral presentation at ICCV 2019 (top 4.3% of submissions) [GII-GRIN-SCIE Class 1, Rating A++, 2018].

PAPER AWARDED AS TOP 10% OF ICIP 2019

Top 10% Award for the paper "Egocentric Action Anticipation by Disentangling Encoding and Inference" at the ICIP 2019 conference [GII-GRIN-SCIE Class 2, Rating A-, 2018].

2018

PAPER ACCEPTED AS ORAL AT ECCV 2018 (59 ORALS OVER 2439 SUBMISSIONS, TOP 2.42%)

Paper "Scaling Egocentric Vision: The EPIC-KITCHENS dataset" accepted for an oral presentation at ECCV 2018 (top 2.42% of submissions) [GII-GRIN-SCIE Class 1, Rating A+, 2018].

TOP REVIEWER FOR CROSS-FIELD

Recognized as "top reviewer for Cross-Field" by PUBLONS

2017

OUSTANDING CONTIRBUTION IN REVIEWING FOR THE ELSEVIER PATTERN RECOGNITION JOURNAL

Awarded in recognition of the contributions made to the quality of the journal [Impact Factor 2017: 3.965]

OUSTANDING CONTIRBUTION IN REVIEWING FOR THE ELSEVIER COMPUTER VISION AND IMAGE UNDERSTANDING JOURNAL

Awarded in recognition of the contributions made to the quality of the journal [Impact Factor 2017: 2.391]

2015

PAPER AWARDED AS TOP 10% OF ICIP 2015

Top 10% Award for the paper "Generalized Sobel Filters for Gradient Estimation of Distorted Images" at the ICIP 2015 conference [GII-GRIN-SCIE Class 2, Rating A-, 2015].

2014

PAPER AWARDED AS TOP 10% OF ICIP 2014

Top 10% Award for the paper "Affine Region Detectors on the Fisheye Domain" at the ICIP 2014 conference [GII-GRIN-SCIE Class 2, Rating A-, 2015].

2013

READING GROUP COMPETITION - ICVSS 2013 AWARD.

Winner of the reading group competition at the International Computer Vision Summer School (ICVSS) 2013

PUBLICATIONS

INTERNATIONAL JOURNALS

[3] Matteo Dunnhofer, Antonino Furnari, Giovanni Maria Farinella, and Christian Micheloni. "Visual Object Tracking in First Person Vision". In: *International Journal on Computer Vision (IJCV)* (2022).

[4] Giovanni Pasqualino, Antonino Furnari, and Giovanni Maria Farinella. "A multi camera unsupervised domain adaptation pipeline for object detection in cultural sites through adversarial learning and self-training". In: *Computer Vision and Image Understanding* (2022), p. 103487. ISSN: 1077-3142. DOI: https://doi.org/10.1016/j.cviu.2022.103487.

[5] Ronja Möller, Antonino Furnari, Sebastiano Battiato, Aki Härmä, and Giovanni Maria Farinella. "A Survey on Human-aware Robot Navigation". In: *Robotics and Autonomous Systems* (2021).

[6] Dima Damen, Hazel Doughty, Giovanni Maria Farinella, Antonino Furnari, Evangelos Kazakos, Jian Ma, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, and Michael Wray.

"Rescaling Egocentric Vision". In: *International Journal on Computer Vision (IJCV)* abs/2006.13256 (2021). URL: http://epic-kitchens.github.io/2020-100.

[7] Ivan Rodin, Antonino Furnari, Dimitrios Mavroedis, and Giovanni Maria Farinella. "Predicting the Future from First Person (Egocentric) Vision: A Survey". In: *Computer Vision and Image Understanding* 211 (2021), p. 103252. ISSN: 1077-3142. DOI: https://doi.org/10.1016/j.cviu.2021.103252. URL: https://www.sciencedirect.com/science/article/pii/S1077314221000965.

[8] Giovanni Pasqualino, Antonino Furnari, Giovanni Signorello, and Giovanni Maria Farinella. "An Unsupervised Domain Adaptation Scheme for Single-Stage Artwork Recognition in Cultural Sites". In: *Image and Vision Computing* 107 (2021). ISSN: 0262-8856. DOI: https://doi.org/10.1016/j.imavis.2021.104098.

[9] S. Orlando, A. Furnari, and G. M. Farinella. "Egocentric Visitor Localization and Artwork Detection inCultural Sites Using Synthetic Data". In: *Pattern Recognition Letters - Special Issue on Pattern Recognition and Artificial Intelligence Techniques for Cultural Heritage* (2020). URL: https://iplab.dmi.unict.it/SimulatedEgocentricNavigations/.

[10] Daniele Di Mauro, Antonino Furnari, Giuseppe Patanè, Sebastiano Battiato, and Giovanni Maria Farinella. "SceneAdapt: Scene-based domain adaptation for semantic segmentation using adversarial learning". In: *Pattern Recognition Letters* 136 (2020), pp. 175 –182. ISSN: 0167-8655. DOI: https://doi.org/10.1016/j.patrec.2020.06.002.

[11] Dima Damen, Hazel Doughty, Giovanni Maria Farinella, Sanja Fidler, Antonino Furnari, Evangelos Kazakos, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, and Michael Wray. "The EPIC-KITCHENS Dataset: Collection, Challenges and Baselines". In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* 43.11 (2021), pp. 4125–4141. DOI: 10.1109/TPAMI.2020.2991965. URL: https://epic-kitchens.github.io/.

[12] Antonino Furnari and Giovanni Maria Farinella. "Rolling-Unrolling LSTMs for Action Anticipation from First-Person Video". In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* 43.11 (2021), pp. 4021–4036. DOI: 10.1109/TPAMI.2020.2992889. URL: https://iplab.dmi.unict.it/rulstm.

[13] F. Ragusa, A. Furnari, S. Battiato, G. Signorello, and G. M. Farinella. "EGO-CH: Dataset and Fundamental Tasks for Visitors Behavioral Understanding using Egocentric Vision". In: *Pattern Recognition Letters - Special Issue on Pattern Recognition and Artificial Intelligence Techniques for Cultural Heritage* (2020). URL: https://iplab.dmi.unict.it/EGO-CH/.

[14] Emiliano Spera, Antonino Furnari, Sebastiano Battiato, and Giovanni M. Farinella. "EgoCart: a Benchmark Dataset for Large-Scale Indoor Image-Based Localization in Retail Stores". In: *IEEE Transactions on Circuits and Systems for Video Technology* 31 (4 2021), pp. 1253–1267. DOI: 10.1109/TCSVT.2019.2941040. URL: https://iplab.dmi.unict.it/EgocentricShoppingCartLo

[15] Filippo L.M. Milotta, Antonino Furnari, Sebastiano Battiato, Giovanni Signorello, and Giovanni M. Farinella. "Egocentric Visitors Localization in Natural Sites". In: *Journal of Visual Communication and Image Representation* (2019), p. 102664. ISSN: 1047-3203. DOI: https://doi.org/10.1016/j.jvcir.2019.102664.

[16] Daniele Di Mauro, Antonino Furnari, Giuseppe Patane', Sebastiano Battiato, and Giovanni Maria Farinella. "Estimating the occupancy status of parking areas by counting cars and nonempty stalls". In: *Journal of Visual Communication and Image Representation* 62 (2019), pp. 234 –244. ISSN: 1047-3203.

[17] Francesco Ragusa, Antonino Furnari, Sebastiano Battiato, Giovanni Signorello, and Giovanni Maria Farinella. "Egocentric Visitors Localization in Cultural Sites". In: *Journal on Comput-*

ing and Cultural Heritage (JOCCH) 12.2 (2019), 11:1–11:19. ISSN: 1556-4673. DOI: 10.1145/3276772. URL: http://iplab.dmi.unict.it/VEDI/.

[18] Luca Guarnera, Giovanni Maria Farinella, Antonino Furnari, Angelo Salici, Claudio Ciampini, Vito Matranga, and Sebastiano Battiato. "Forensic analysis of handwritten documents with GRAPHJ". In: *Journal of Electronic Imaging (JEI)* 27.5 (2018), p. 051230. DOI: 10.1117/1.JEI.27.5.051230.

[19] Antonino Furnari, Sebastiano Battiato, and Giovanni Maria Farinella. "Personal-Location-Based Temporal Segmentation of Egocentric Video for Lifelogging Applications". In: *Journal of Visual Communication and Image Representation* 52 (2018), pp. 1–12. ISSN: 1047-3203. DOI: https://doi.org/10.1016/j.jvcir.2018.01.019. URL: http://iplab.dmi.unict.it/PersonalLocationSegmentation/.

[20] Vito Santarcangelo, Giovanni Maria Farinella, Antonino Furnari, and Sebastiano Battiato. "Market Basket Analysis from Egocentric Videos". In: *Pattern Recognition Letters* 112 (1 2018), pp. 83–90. DOI: https://doi.org/10.1016/j.patrec.2018.06.010. URL: http://iplab.dmi.unict.it/vmba15.

[21] Antonino Furnari, Giovanni Maria Farinella, Arcangelo Ranieri Bruna, and Sebastiano Battiato. "Distortion Adaptive Sobel Filters for the Gradient Estimation of Wide Angle Images". In: *Journal of Visual Communication and Image Representation* 46 (2017), pp. 165 –175. DOI: 10.1016/j.jvcir.2017.03.019. URL: http://iplab.dmi.unict.it/DASF/.

[22] Antonino Furnari, Sebastiano Battiato, Kristen Grauman, and Giovanni Maria Farinella. "Next-active-object prediction from egocentric videos". In: *Journal of Visual Communication and Image Representation* 49.Supplement C (2017), pp. 401 –411. ISSN: 1047-3203. DOI: https://doi.org/10.1016/j.jvcir.2017.10.004. URL: http://iplab.dmi.unict.it/NextActiveObjectPrediction/.

[23] Antonino Furnari, Giovanni Maria Farinella, and Sebastiano Battiato. "Recognizing Personal Locations From Egocentric Videos". In: *IEEE Transactions on Human-Machine Systems* 47.1 (2017), pp. 6–18. ISSN: 2168-2291. DOI: 10.1109/THMS.2016.2612002. URL: http://iplab.dmi.unict.it/PersonalLocations/.

[24] Antonino Furnari, Giovanni Maria Farinella, Arcangelo Ranieri Bruna, and Sebastiano Battiato. "Affine Covariant Features for Fisheye Distortion Local Modeling". In: *IEEE Transactions on Image Processing* 26.2 (2017), pp. 696–710. ISSN: 1057-7149. DOI: 10.1109/TIP.2016.2627816. URL: http://iplab.dmi.unict.it/FisheyeAffine/.

[25] Sebastiano Battiato, Giovanni Maria Farinella, Antonino Furnari, Giovanni Puglisi, Anique Snijders, and Jelmer Spiekstra. "An integrated system for vehicle tracking and classification". In: *Expert Systems with Applications* 42.21 (2015), pp. 7263–7275. DOI: 10.1016/j.eswa.2015.05.055. URL: http://www.sciencedirect.com/science/article/pii/S0957417415003917.

INTERNATIONAL CONFERENCES AND WORKSHOPS

[26] Kristen Grauman, Andrew Westbury, Eugene Byrne, Zachary Chavis, Antonino Furnari, Rohit Girdhar, Jackson Hamburger, Hao Jiang, Miao Liu, Xingyu Liu, Miguel Martin, Tushar Nagarajan, Ilija Radosavovic, Santhosh Kumar Ramakrishnan, Fiona Ryan, Jayant Sharma, Michael Wray, Mengmeng Xu, Eric Zhongcong Xu, Chen Zhao, Siddhant Bansal, Dhruv Batra, Vincent Cartillier, Sean Crane, Tien Do, Morrie Doulaty, Akshay Erapalli, Christoph Feichtenhofer, Adriano Fragomeni, Qichen Fu, Christian Fuegen, Abrham Gebreselasie, Cristina Gonzalez, James Hillis, Xuhua Huang, Yifei Huang, Wenqi Jia, Weslie Khoo, Jachym Kolar, Satwik Kottur, Anurag Kumar, Federico Landini, Chao Li, Yanghao Li, Zhenqiang Li, Karttikeya Mangalam, Raghava Modhugu, Jonathan Munro, Tullie Murrell, Takumi Nishiyasu, Will Price, Paola Ruiz

Puentes, Merey Ramazanova, Leda Sari, Kiran Somasundaram, Audrey Southerland, Yusuke Sugano, Ruijie Tao, Minh Vo, Yuchen Wang, Xindi Wu, Takuma Yagi, Yunyi Zhu, Pablo Arbelaez, David Crandall, Dima Damen, Giovanni Maria Farinella, Bernard Ghanem, Vamsi Krishna Ithapu, C. V. Jawahar, Hanbyul Joo, Kris Kitani, Haizhou Li, Richard Newcombe, Aude Oliva, Hyun Soo Park, James M. Rehg, Yoichi Sato, Jianbo Shi, Mike Zheng Shou, Antonio Torralba, Lorenzo Torresani, Mingfei Yan, and Jitendra Malik. "Around the World in 3,000 Hours of Egocentric Video". In: *IEEE/CVF International Conference on Computer Vision and Pattern Recognition*. 2022. URL: https://ego4d-data.org/.

[27] Claudia Bonanno, Francesco Ragusa, Rosario Leonardi, Antonino Furnari, and Giovanni Maria Farinella. "HERO: An Artificial Conversational Assistant to Support Humans in Industrial Scenarios". In: *International Conference on Signal Processing and Multimedia Applications (SIGMAP)*. 2022.

[28] Giuseppe Puglisi, Daniele Di Mauro, Antonino Furnari, Luigi Gulino, and Giovanni Maria Farinella. "Visual RSSI Fingerprinting for Radio-based Indoor Localization". In: *International Conference on Signal Processing and Multimedia Applications (SIGMAP)*. 2022.

[29] I. Rodin, A. Furnari, D. Mavroedis, and G. M. Farinella. "Untrimmed Action Anticipation". In: *International Conference on Image Analysis and Processing (ICIAP)*. 2022.

[30] G. Pasqualino, A. Furnari, and G. M. Farinella. "Unsupervised Multi-Camera Domain Adaptation for Object Detection in Cultural Sites". In: *International Conference on Image Analysis and Processing (ICIAP)*. 2022. URL: https://iplab.dmi.unict.it/OBJ-MDA/.

[31] C. Quattrocchi, D. Di Mauro, A. Furnari, and G. M. Farinella. "Panoptic Segmentation in Industrial Environments using Synthetic and Real Data". In: *International Conference on Image Analysis and Processing (ICIAP)*. 2022. URL: https://iplab.dmi.unict.it/ENIGMA_SEG/.

[32] R. Leonardi, F. Ragusa, A. Furnari, and G. M. Farinella. "Egocentric Human-Object Interaction Detection Exploiting Synthetic Data". In: *International Conference on Image Analysis and Processing (ICIAP)*. 2022. URL: https://iplab.dmi.unict.it/EHOI_SYNTH/.

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