

PhD-AI Fall School Poster Session & ELLIS Pre-NeurIPS Fest
November 27th, 2025

Authors	Title	Conference/Journal
Scarano N., Mannella L., Savino A., Di Carlo S.	Assessing LLMs models' knowledge of automotive cyberthreats benchmarking autoISAC framework	Cyber Security in CarS Workshop, CSCS 2025
Farnaghinejad, B. , Bellizia D., Dolmeta A., Masera G., Porsia A., Ruospo A. Di Carlo, S., SavinoA., Sanchez E.	Power Side-Channel Vulnerabilities of a RISC-V Cryptography Accelerator Integrated into CVA6 via Core-V eXtension Interface (CV-X-IF)	IEEE International Test Conference, ITC 2025
Syed U., Radicchi E., Speghini A., Marone P., Cunico F.	Estimation of particle growth kinetics via Physics-Informed Neural Networks	International Conference on Image Analysis and Processing, ICIAP 2025
Durin G., Ferri V., Pattarino M., Lo Iacono M.	SmartTwin: an Oxygen Digita Twin of the Smart Bay S. Teresa	RISE Mathmet 2025 Conference, 2025
Rosi G., Cermelli F.	Show or Tell? A Benchmark To Evaluate Visual and Textual Prompts in Semantic Segmentation	IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2025
Buoso D., Robinson L., Averta G., Torr P., Franzmeyer T., De Martini D.	Select2Plan: Training-Free ICL-Based Planning through VGA and Memory Retrieval	IEEE Robotics and Automation Letters, 2025
Callea F., Martinez-Perurena A., Giorgi G., Penalba-Retes M., Iglesias G.	Resource assessment uncertainty reduction via bias correction: On the temporal and spatial sensitivity analysis	Applied Ocean Research Journal, 2025
D'Innocenzo A., Rehman K., Zacchia Lun Y.	Data driven finite abstractions by simulation relations with probabilistic guarantees using regression trees	IEEE Conference on Decision and Control, CDC 2025
Russo, F., Calò T., De Russis L.	Bridging Web and Figma: Automating Large-Scale UI Dataset Generation for AI-Enhanced Design,	ACM Symposium on Engineering Interactive Computing Systems, (EICS) 2025
Vitale A. , Oliveto R., Scalabrino S.	A Catalog of Data Smells for Coding Tasks	ACM Transaction on Software Engineering and Methodology, 2025
Marostica F., Carpegna A., Savino A., Di Carlo S.	Energy-Efficient Digital Design: A Comparative Study of Event-Driven and Clock-Driven Spiking Neurons	IEEE Computer Society Annual Symposium on VLSI, 2025
Smeriglio R., Bardini R., Savino A., Di Carlo S.	Start & Stop: a PhysiCell and PhysiBoSS 2.0 add-on for interactive simulation control	BMC Bioinformatics, 2025
Vespa M., Bellodi E., Chesani F., Loreti D., Mello P., Lamma E., Ciampolini A., Gavanelli M., Zese R.	Probabilistic Traces in Declarative Process Mining	International Conference on Logic Programming (ICLP), 2025
Diamantini C., Mele A., Mircoli A., Potena D., Rossetti C., Storti E.	A Graph RAG Approach to Enhance Explainability in Dataset Discovery	Journal of Data Science and Engineering, 2025
Salpietro S., Novarese M., Rimoldi C. Gioannini M.	Study of microring nonlinearities in silicon photonics for neuromorphic computing	SPIE, Silicon Photonics XX, 2025
Federico Girella, Davide Talon, Ziyue Liu, Zanxi Ruan, Yiming Wang, Marco Cristani	LOTS of Fashion! Multi-Conditioning for Image Generation via Sketch-Text Pairing	IEEE International Conference on Computer Vision (ICCV), 2025

Authors	Title	Conference/Journal
Cozzi F., Pangallo M., Perotti A., Panisson A., Monti C. (CENTAI Institute)	Learning Individual Behavior in Agent-Based Models with Graph Diffusion Networks	NeurIPS 2025
Vasile F., Qiu R., Natale L., Wang X. (IIT - ELLIS Unit Genova)	Gaussian-Augmented Physics Simulation and System Identification with Complex Colliders	NeurIPS 2025
Francesco Insulla, Shuo Huang, Lorenzo Rosasco (IIT - ELLIS Unit Genova)	Towards a learning theory of representation alignment	ICLR 2025
Cuttano C., Trivigno G., Averta G., Masone C. (Politecnico di Torino - ELLIS Unit Torino)	SANSA: Unleashing the Hidden Semantics in SAM2 for Few-Shot Segmentation	NeurIPS 2025
Zaccone R., Karimireddy S. P., Masone C., Ciccone M. (Politecnico di Torino - ELLIS Unit Torino)	Robust Federated Learning under Heterogeneous Data with Generalized Heavy-Ball Momentum	NeurIPS 2025 - Reliable ML Workshop
Zaccone R., Karimireddy S.P., Masone C. (Politecnico di Torino - ELLIS Unit Torino)	On the Limits of Momentum in Decentralized and Federated Optimization	NeurIPS 2025 - Optimization for Machine Learning Workshop
Savant Aira L., Valsesia D., Mogli E. (Politecnico di Torino - ELLIS Unit Torino)	Modeling uncertainty for Gaussian Splatting	IEEE Transactions on Neural Networks and Learning Systems, 2025
Wang H., Yu Z., Spadaro G., Ju C., Quéty V., Xiao S., Tartaglione E. (Università di Torino)	FOLDER: Accelerating Multi-modal Large Language Models with Enhanced Performance	IEEE International Conference on Computer Vision (ICCV), 2025
Peirone S., Pistilli F., Averta G. (Politecnico di Torino - ELLIS Unit Torino)	HiERO: understanding the hierarchy of human behavior enhances reasoning on egocentric videos	IEEE International Conference on Computer Vision (ICCV), 2025
Karuppasamy M., Gangisetty S., Nandan Rai S., Masone C., Jawahar (Politecnico di Torino - ELLIS Unit Torino)	Towards Safer and Understandable Driver Intention Prediction	IEEE International Conference on Computer Vision (ICCV), 2025
Rabino P., Tiboni G., Tommasi T. (Politecnico di Torino - ELLIS Unit Torino)	FoldPath: End-to-End Object-Centric Motion Generation via Modulated Implicit Paths	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2025