



**UNIVERSITÀ
DI TRENTO**

Dipartimento di
Ingegneria e Scienza dell'Informazione



TRENTO, ITALY 2026

PPSN

19TH INTERNATIONAL CONFERENCE ON

Parallel Problem Solving From Nature

August 29 - September 2, 2026

Trento, Italy

Program at a Glance

Saturday, 29.08.2026

8:00	Registration and info desk		
8:30	HALL TRENTO EXPO		
9:00	TUTORIAL	TUTORIAL	WORKSHOP
9:30	Advances in Evolutionary Algorithm Hyper-Heuristics	Genetic Improvement: Improving real-world software using computational search	Nature-Inspired Computation on HPC (part 1) WEBSITE
10:00	9:00 - 10:15 ROOM 1	9:00 - 10:15 ROOM 2	9:00 - 10:00 ROOM 3
10:30	Coffee break		
11:00	TUTORIAL	TUTORIAL	WORKSHOP
11:30	AI for Security, Security for AI: Practical Methods and Research Frontiers	A Gentle Introduction to Theory (for Non Theoreticians)	Nature-Inspired Computation on HPC (part 2) WEBSITE
12:00	10:45 - 12:00 ROOM 1	10:45 - 12:00 ROOM 2	10:45 - 11:45 ROOM 3
12:30	Lunch break		
13:00	TUTORIAL	TUTORIAL	WORKSHOP
13:30	Coevolution for Multi-Model Neural Networks: Training Beyond End-to-End Gradients	Bayesian Optimization	Quantum vs Classical Optimisation WEBSITE
14:00	13:00 - 14:15 ROOM 1	13:00 - 14:15 ROOM 2	13:00 - 15:00 ROOM 3
14:30	TUTORIAL	TUTORIAL	
15:00	Constraint-Handling Techniques used with Evolutionary Algorithms	Structural bias in optimisation algorithms	WORKSHOP
15:30	14:15 - 15:30 ROOM 1	14:15 - 15:30 ROOM 2	EXCAI (part 1) WEBSITE
	Coffee break		
16:00	TUTORIAL	TUTORIAL	WORKSHOP
16:30	Evolutionary Algorithms and Quantum Computing: Connections and Opportunities	CMA-ES	EXCAI (part 2) WEBSITE
17:00	16:00 - 17:15 ROOM 1	16:00 - 17:15 ROOM 2	16:00 - 17:30 ROOM 3
17:30			

8:00	Registration and info desk		
8:30	HALL TRENTO EXPO		
9:00	TUTORIAL Performance Evaluation of Unconstrained and Constrained Multi-Objective Evolutionary Algorithms on Artificial and Real-World Problems 9:00 - 10:15 ROOM 1	TUTORIAL Foundations and Frontiers of Landscape Analysis 9:00 - 10:15 ROOM 2	WORKSHOP BOSS (part 1) WEBSITE 9:00 - 10:00 ROOM 3
10:30	Coffee break		
11:00	TUTORIAL Large Language Model driven Automated Algorithm Design with Evolutionary Computing 10:45 - 12:00 ROOM 1	TUTORIAL Theory of Popular Multiobjective Evolutionary Algorithms 10:45 - 12:00 ROOM 2	WORKSHOP BOSS (part 2) WEBSITE 10:45 - 11:45 ROOM 3
12:30	Lunch break		
13:00	TUTORIAL Theory of Population-based Evolutionary Algorithms on Complex Fitness Landscapes 13:00 - 14:15 ROOM 1	TUTORIAL Robot Evolution 13:00 - 14:15 ROOM 2	TUTORIAL Evolutionary Multi-Objective Algorithms for Constrained Single-Objective Combinatorial Optimization Problems: Theory and Applications 13:00 - 14:15 ROOM 3
14:30	TUTORIAL Engineering greener evolutionary algorithms 14:15 - 15:30 ROOM 1	TUTORIAL Linkage Learning for Discrete Optimization (+ Model-based Evolutionary Algorithms) 14:15 - 15:30 ROOM 2	TUTORIAL Hexaly: the next-generation MIP solver 14:15 - 15:30 ROOM 3
16:00	Coffee break		
16:30	TUTORIAL Tools and Algorithms for Machine-Learning-Based and Deep-Learning-Based Evolutionary Computation 16:00 - 17:15 ROOM 1	TUTORIAL GPU Genetic Programming and the Beagle System 16:00 - 17:15 ROOM 2	WORKSHOP Tailoring Optimization Approaches with Domain Knowledge WEBSITE 16:00 - 18:00 ROOM 3
17:30			

Monday, 31.08.2026

8:00	Registration and info desk
8:30	HALL DIP. LETTERE E FILOSOFIA
9:00	Opening
9:30	AUDITORIUM DIP. LETTERE E FILOSOFIA
10:00	KEYNOTE Sebastian Risi 9:30 - 10:30 AUDITORIUM DIP. LETTERE E FILOSOFIA
10:30	Walk DIP. LETTERE E FILOSOFIA → TRENTO EXPO
11:00	Coffee break
11:30	PAPERS Poster Session 1 Papers: 28 127 132 259 472 511 523 543 549 555 578 601 604 608 690 720 721 745 785 787 796 11:15 - 12:45 POSTER AREA
12:00	
12:30	
13:00	
13:30	Lunch break
14:00	PAPERS Poster Session 2 Papers: 14 82 161 195 203 224 255 257 274 444 469 485 547 558 563 694 717 719 773 805 825 13:45 - 15:15 POSTER AREA
14:30	
15:00	
15:30	Coffee break
16:00	PAPERS Poster Session 3 Papers: 126 185 201 237 253 273 290 340 351 382 478 548 557 568 584 599 628 632 757 782 816 15:45 - 17:15 POSTER AREA
16:30	
17:00	
17:30	

Tuesday, 01.09.2026

8:00	Registration and info desk
8:30	HALL DIP. LETTERE E FILOSOFIA
9:00	Gunter Rudolph Memorial Event
9:30	AUDITORIUM DIP. LETTERE E FILOSOFIA
10:00	KEYNOTE Emma Hart 9:30 - 10:30 AUDITORIUM DIP. LETTERE E FILOSOFIA
10:30	Walk DIP. LETTERE E FILOSOFIA → TRENTO EXPO
11:00	Coffee break
11:30	PAPERS Poster Session 4 Papers: 23 101 214 233 262 282 293 364 376 385 442 445 459 540 576 585 593 666 691 711 771 11:15 - 12:45 POSTER AREA
12:00	
12:30	
13:00	Lunch break
13:30	
14:00	PAPERS Poster Session 5 Papers: 230 261 313 318 350 407 409 434 446 483 564 596 606 659 663 671 683 737 767 777 819 13:45 - 15:15 POSTER AREA
14:30	
15:00	
15:30	Coffee break
16:00	PAPERS Poster Session 6 Papers: 276 287 383 430 451 504 531 556 571 613 631 660 670 704 705 727 733 761 799 811 15:45 - 17:15 POSTER AREA
16:30	
17:00	
17:30	

Wednesday, 02.09.2026

8:00	Registration and info desk
8:30	
9:00	HALL DIP. LETTERE E FILOSOFIA
9:30	KEYNOTE Lorenzo Bruzzone 9:00 - 10:00 AUDITORIUM DIP. LETTERE E FILOSOFIA
10:00	Walk DIP. LETTERE E FILOSOFIA → TRENTO EXPO
10:30	
11:00	Coffee break
11:30	PAPERS Poster Session 7 Papers: 171 200 328 439 454 474 502 579 587 617 658 664 735 743 754 756 760 790 792 806 11:15 - 12:45 POSTER AREA
12:00	
12:30	
13:00	
13:30	Lunch break
14:00	PAPERS Poster Session 8 Papers: 187 215 221 441 458 470 476 506 541 565 580 685 708 766 770 772 781 793 810 813 13:45 - 15:15 POSTER AREA
14:30	
15:00	
15:30	Walk DIP. LETTERE E FILOSOFIA → TRENTO EXPO
16:00	Closing AUDITORIUM DIP. LETTERE E FILOSOFIA
16:30	
17:00	
17:30	

You can find the latest information on our website at ppsn2026.disi.unitn.it/#program

Keynotes



KEYNOTE

Building Collective Intelligence Across Scales by Sebastian Risi

MONDAY 31.08.2026
9:30 AM - 10:30 AM



KEYNOTE

Generative Design for Robotics **(... towards the democratisation of robotics)** by Emma Hart

TUESDAY 01.09.2026
9:30 AM - 10:30 AM



KEYNOTE

Artificial Intelligence and Evolutionary Computation in Space by Lorenzo Bruzzone

WEDNESDAY 02.09.2026
9:00 AM - 10:00 AM

Sebastian Risi

Building Collective Intelligence Across Scales

Biological intelligence emerges from collectives of locally interacting components rather than from centrally specified architectures. Nervous systems develop from compact genetic descriptions, neurons differentiate through local interactions, and synapses continue to change throughout life. This talk examines how evolutionary computation can exploit these principles to create artificial systems that self-organize and adapt. The first part introduces neural developmental programs: compact genotype-to-phenotype mappings that construct networks through local message passing, structural growth, neuronal differentiation, and synaptic prediction. Rather than optimizing every parameter directly, evolution searches for reusable local rules that generate the network and its dynamics. Development alone, however, is not sufficient for adaptation after deployment. The talk therefore considers evolved local plasticity rules, which allow networks to reorganize during an agent's lifetime, recover from perturbations, and adapt during transfer from simulation to physical robots. The final part shifts the level of collective organization — from neurons within a controller to physical modules within a larger structure. In our recent work on smart cellular bricks, identical modules communicate only with their neighbours yet collectively recognize shape, tolerate failures, and detect damage without central control or global coordinates. Together, these examples suggest that local developmental, plasticity, and communication rules can be discovered from which robust collective intelligence emerges.



Professor Sebastian Risi is a Research Scientist at Sakana AI and leads the [Creative AI Lab](#) at the [IT University of Copenhagen](#), where he also co-directs the [Robotics, Evolution and Art Lab \(REAL\)](#). His research focuses on computational evolution, deep learning, creative AI, lifelong learning, and human–AI collaboration. He is the recipient of an ERC Consolidator Grant for GROW-AI, a project developing AI systems that can rapidly adapt to unknown environments. Beyond academia, he co-founded modl.ai, bringing AI innovation to game development. His research has been featured in *Science*, *New Scientist*, *Wired*, and *Popular Science*.

Emma Hart

Generative Design for Robotics (... towards the democratisation of robotics)

Recent advances in generative design techniques – particularly those rooted in Evolutionary Algorithms - are revolutionising the ability to quickly design both 'static' objects (e.g. in architecture, engineering) and in robotics. This offers an exciting opportunity to move the field of robotics - once exclusive to large, highly-funded industries - to a new state which makes robotics accessible, affordable, and easy-to-use for everyday individuals, for example those working in environmental fields. In this talk, I will first give an overview of the key milestones in the field of EA-based design of robots, before moving on to discuss recent innovations in representations, algorithms, architectures, and in the use of foundation models that are collectively accelerating progress towards being able to realise 'real-world' ready, cheap to design and manufacture, robots for all.



Professor Emma Hart has worked in the field of Evolutionary Computing for over 20 years. Her current work is mainly centred on developing optimisation systems that 'keep learning' over time, with applications in combinatorial and continuous optimisation and in Evolutionary Robotics at [Edinburgh Napier University](#). The work in robotics has attracted significant media attention including recently in New Scientist and The Guardian. She gave a TED Talk on this subject at TEDWomen in December 2021 in Palm Springs, USA, which has attracted over 1 million views since being released online in April 2022.

She is co-author of a new book, [Robot Evolution](#), to be published by Springer in late 2026. She was the Editor-in-Chief of the journal Evolutionary Computation (MIT Press) from 2017–2024 and an elected member of the ACM SIG on Evolutionary Computing. In 2022, she was honoured to be elected as a Fellow of the Royal Society of Edinburgh for her contributions to the field of Computational Intelligence and was awarded the ACM SIGEVO Award for Outstanding Contribution to Evolutionary Computation in 2023.

Lorenzo Bruzzone

Artificial Intelligence and Evolutionary Computation in Space

Space has always been a catalyst for innovation. Many of the technologies developed to meet the extreme challenges of space missions have ultimately transformed everyday life on Earth. Today, artificial intelligence (AI) is driving a new technological revolution, reshaping the way we observe our planet, explore the Solar System, and interact with the vast volumes of data generated by modern space missions. AI, machine learning, and evolutionary algorithms are rapidly becoming fundamental components of the space ecosystem. From enabling autonomous planetary exploration to extracting actionable knowledge from Earth observation data, these technologies are expanding the frontiers of scientific discovery while creating new opportunities for environmental monitoring, climate resilience, precision agriculture, disaster response, and the broader space economy. This keynote will explore how AI is transforming two of the most dynamic areas of space activities: planetary exploration and Earth observation. Planetary exploration drives the development of highly autonomous and intelligent systems capable of operating in the harsh and uncertain environments of the Solar System, while Earth observation enables an ever-growing range of applications that are fundamental to environmental monitoring, sustainable resource management, and the expanding space economy. The talk will discuss the unique challenges posed by remote sensing data, the transition from data acquisition to semantic understanding, and the role of intelligent systems in supporting autonomous decision-making in complex and often unpredictable environments. Through examples drawn from climate change, precision agriculture, cryosphere monitoring, and planetary exploration missions, the presentation will highlight the remarkable progress achieved over the past decade, discuss the scientific and technological challenges that remain, and outline future research directions.



Professor Lorenzo Bruzzone is a researcher at the [University of Trento](#) and leads the [Remote Sensing Laboratory \(RSLab\)](#). His research spans remote sensing, radar systems, signal processing, and artificial intelligence for Earth observation and planetary exploration.

He has led numerous national and international projects and serves as Principal Investigator for instruments in major European Space Agency (ESA) missions, including the Radar for Icy Moon Exploration (RIME) on JUICE, the Subsurface Radar Sounder (SRS) on EnVision, and the High Resolution Land Cover project within ESA's Climate Change Initiative. With over 400 journal publications and numerous international awards, he is widely recognised as one of the leading scientists in his field, contributing significantly to advances in remote sensing and planetary science.

Social Events

Time to get some fun!



SOCIAL

Welcome Drink

Welcome drink at the 16th-century Cloister of the Agostiniani, with a special musical performance by the University Orchestra.

MONDAY 31.08.2026
6:00 PM



SOCIAL

Social Dinner

Social dinner at Ristorante Prime Rose, featuring a panoramic terrace on Lake Levico. Shuttle buses will depart from Piazza Dante to take guests to the venue.

TUESDAY 01.09.2026
7:00 PM



SOCIAL

Guided visit of MUSE

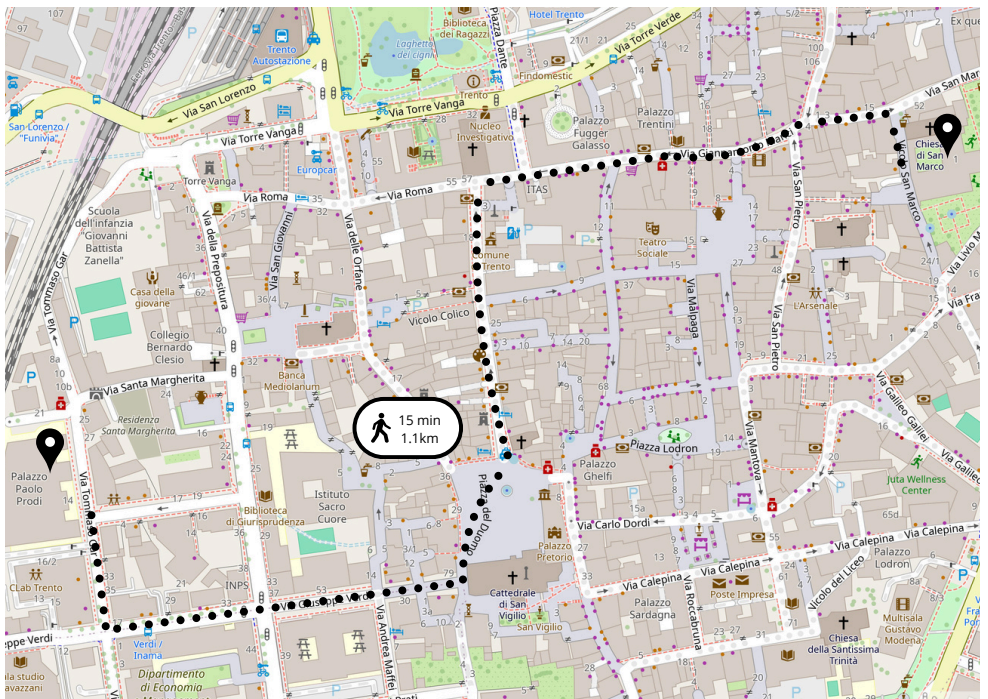
Guided tour of MUSE, the Science Museum of Trento, housed in a striking building designed by renowned Italian architect Renzo Piano.

WEDNESDAY 02.09.2026
5:00 PM

Welcome Drink

Departure is scheduled for 5:45 PM from the
Department of Letters and Philosophy.

Participants will walk together with our student
volunteers to the **Cloister of the Agostiniani**, where
the welcome drink will take place from 6:00 PM on.
Please follow the route shown on the map below
(also available on [Google Maps](#)).



Social Dinner

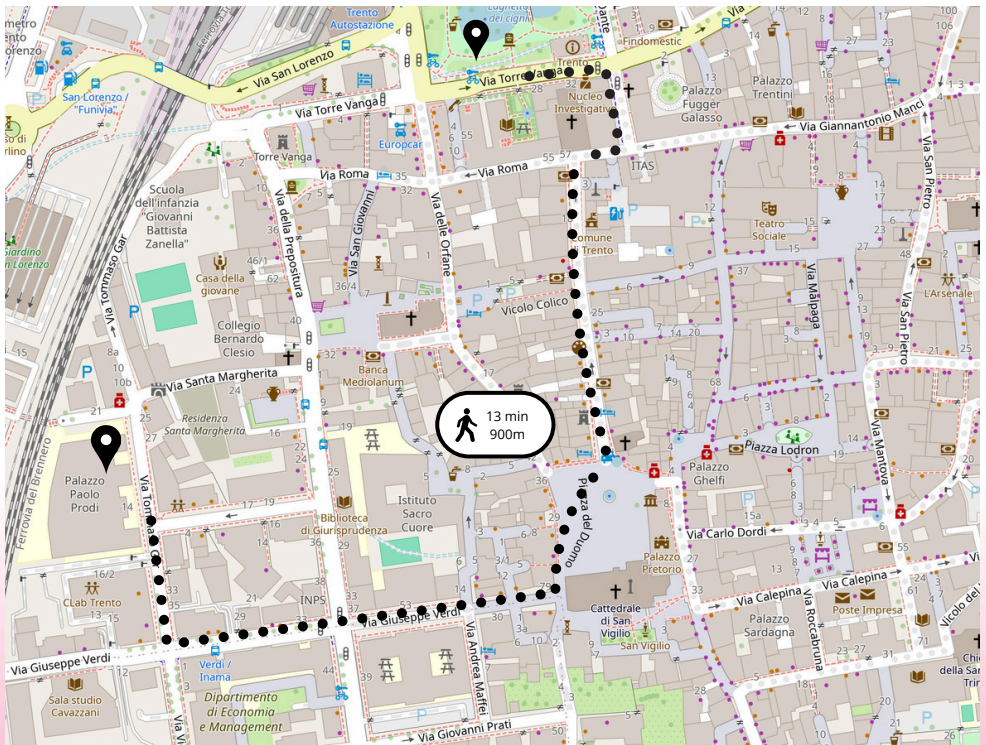
Departure is scheduled for 5:45 PM from the

Department of Letters and Philosophy.

Participants will walk together with our student volunteers to **Piazza Dante**, where the buses will be waiting. Please follow the route shown on the map below (also available on [Google Maps](#)).

Starting at 6:00 PM, the buses will take participants to **Ristorante Prime Rose** in Levico Terme (TN), where the social dinner will be held.

At the end of the evening, the buses will return to Piazza Dante, the same location where the journey began.



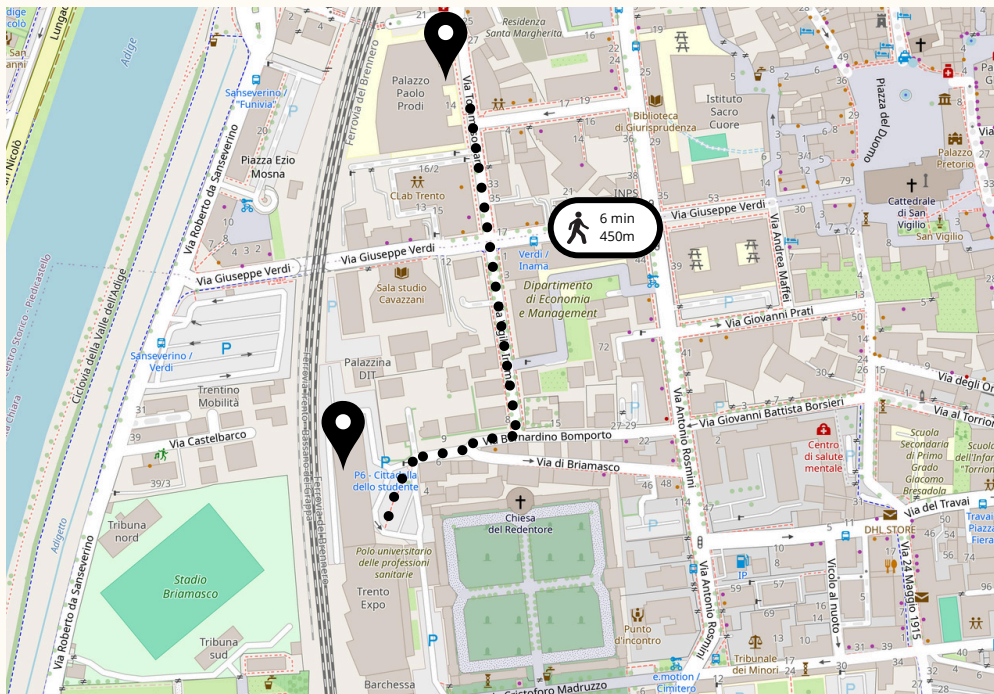
Guided visit of MUSE

Departure is scheduled right after the closing session from the **Department of Letters and Philosophy**.

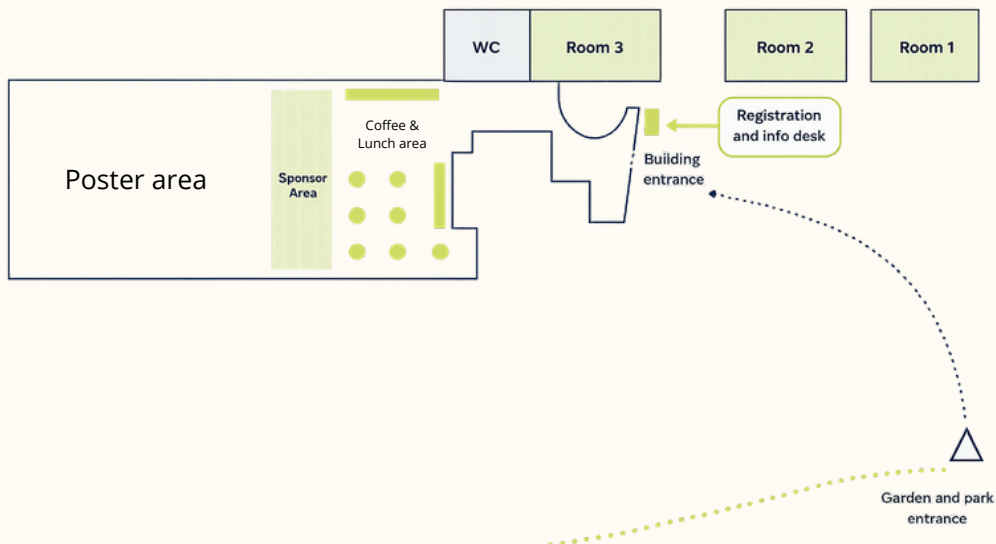
Participants will walk together to the **MUSE** (Museum of Science of Trento), where the guided tours will take place from 5:00 PM on. The map below is a suggestion of a possible route to the museum.



CONFERENCE ROUTE



CONFERENCE BUILDING MAP



Paper session 1

Policy-Targeted Evolutionary Entropy Search for Zero-Shot Contextual Optimization

Wu, S., Xue, X., Tan, K.

Island-DR-ALNS: A Diversity-Driven Multi-Agent Framework for Deep Reinforcement Learning-based Combinatorial Optimization

Żychowski, A., Yao, X., Mańdziuk, J.

Evolving the Active Set: A Nature-Inspired Pruning Strategy for Budgeted Online Machines

Li, S., Xu, H., Chen, L., Bo, Y.

Symbolic Regression for Shared Expressions – Introducing Partial Parameter Sharing

Martinek, V., Herzog, R.

Weight-Instance Early Fusion for Neural Multi-Objective Combinatorial Optimization

Hu, Z., Liu, Y., Liu, Z., Zou, J., Zheng, J.

Unsupervised Multi-Kernel Learning for Automated Algorithm Selection

LU, Y., Eftimov, T., Doerr, C.

Evolutionary Bilevel Reward Shaping for Generalization in Reinforcement Learning

Usaratniwart, E., Gao, X., Ong, M., Akimoto, Y.

Towards ML-Based Position-Aware Mutation Operator in Cartesian Genetic Programming

Hurta, M., Drahosova, M., Mrazek, V.

Data Centric AutoML Embedding Optimisation for Mode of Delivery Prediction

Antunes, C., Simões, J., Ferreira, I., Areia, A., Correia, J.

Multi-objective Approaches for Leakage-Safe Compact Prediction on Temporal Logs

Ye, Q., Hafsa, M., Jourdan, L., Dhaenens, C., Jacques, J.

Quality Diversity for Reliable Data Driven Time-Use Optimization

Neumann, A., Stanford, T., Dumuid, D., Neumann, F.

A Fresh Look at Lamarckian Evolution and the Baldwin Effect

Benito, I., Lutzeyer, J., Doerr, B.

Paper session 1

Never-Forgetting Genetic Algorithms on OneMax: First Insights

Buzdalov, M., Zarges, C.

Operator-Host Compatibility: When Does IVF Help SPEA2, NSGA-II, or NSGA-III?

Henrique Sanches Pelegrino Zambrano, P., Faria de Souza, E., Dantas, A., G. Camilo-Junior, C.

A new encoding to mitigate representation biases in morphological robot evolution

di Matteo, J., Eiben, G.

Mixed Discrete-Continuous Optimization: Even Separable Problems Are Not That Simple

Auger, A., Brockhoff, D., Kötzing, T., Sander, J.

From Networks to Landscapes: Sampling and Topographic Visualisation of Continuous LON

Renau, Q., Ochoa, G., Liefvooghe, A., Fieldsend, J.

Large Language Models for the Automatic Design of Memetic Algorithms

Contreras Estrada, P., Stützle, T., Pérez Cáceres, L.

BNTGP: A Hyper-heuristic Balancing Non-dominated Tournament Genetic Programming for Multi-Objective Multi-Skill Resource-Constrained Project Scheduling Problem

Paliszek-Saładyna, A., Myszkowski, P., Gmyrek, K., Đurasević, M.

From Population to Individual A New Evolutionary Model for Multi-Objective CMA-ES

Tan, Z., Yuan, B., Li, M.

Coevolutionary Federated Learning with Differential Privacy

Gerry, P., Hemberg, E., Toutouh, J., O'Reilly, U.

Paper session 2

A Superlinearly Convergent Evolution Strategy

Glasmachers, T.

Parallel Local Search for MaxSAT with Solutions and Score Functions Co-Evolving

Zou, M., Lin, P., Chu, Y., Cai, S.

Developing a novel Comorbidities Index for predicting 10-year mortality in Prostate Cancer patients: A computational data-driven approach

Farinati, D., Barletta, F., Zaurito, P., Scuderi, S., Raison, N., Granados, A., Dasgupta, P., Gandaglia, G., Briganti, A.

Enhancing Quality-Diversity with Adaptive Heterogeneous Operator Allocation

Li, X., Wang, Y., Yu, C., Chang, Y., Zhang, T., Wang, X., Liu, H.

When Does Parameter Control Pay Off?

Tian, Z.

Population-Aware Contrastive Surrogates for Expensive Multiobjective Optimization

Liu, S., Zhou, X., Sun, H., Ma, L., Lin, Q., Chen, J.

The (1 + 1)-EA in Dynamic Environments

Hasebe, G., Lengler, J., Ravi, R.

Decomposing Anytime Algorithm Performance with Bayesian Ranking ANOVA

Wurth, J., Stegherr, H., Heider, M., Hähner, J.

Efficient Imitation-Based Rule Learning for Online Yard Crane Scheduling via Order-Aware Geometric Semantic Genetic Programming

Jin, C., Tan, L., Deng, H., Bai, R.

Scaling Bayesian Optimization to High-Dimension via Pairwise-Relation-Based Decomposition

Shang, H., Nie, Z., Xue, K., Qian, C.

Stein Variational Black-Box Combinatorial Optimization

Landais, T., Goudet, O., Goëffon, A., Saubion, F., Lamprier, S.

Pooling with Optimal Hypervolume Subset Selection for Biobjective Evolutionary Optimization

Zabihi Neyshaburi, M., Arnold, D.

Paper session 2

On the Runtime Analysis of Reinforcement Learning Hyper-Heuristics

Oliveto, P., Wang, Z., Wu, P., Xu, M.

NEMESIS: Evolving Real-Time Semantic Segmentation Architectures for Robotics

Lourenço, N., Andrade, A., Macedo, J.

Evolving Features vs Evolving Entire Trees with GP for Interpretable Survival Analysis

Schlender, T., Bosman, P., Alderliesten, T.

Novelty-Based Generation of Continuous Landscapes with Diverse Local Optima Networks

Mizuta, K., Tanaka, S., Tanaka, S., Hatanaka, T.

BERT Mutation for Genetic Algorithms: A Deep Transformer Operator

Shem-Tov, E., Elyasaf, A.

Runtime Analysis of the (1+1) EA on Plateau Functions of Multi-Valued Decision Variables

Gaeuman, L., Sutton, A.

Lens-descriptor guided evolutionary algorithm for optimization of complex optical systems with glass choice

Antonov, K., Tukker, T., Botari, T., Bäck, T., Kononova, A., van Stein, N.

Multitask Pareto Optimization for Monotone Submodular Problems with Dynamic Constraints

Wigney, L., Neumann, F.

Quantitative Performance Analysis of Stopping Criteria for CMA-ES

Tanabe, R.

Paper session 3

Reinforcement Learning Enhanced LLM Agents for Complex Vehicle Routing Problems

Chen, Y., Yu, Z., Wang, J., Chen, J., Zhou, J., Zhang, Z.

EPL: Evolutionary Prototype Learning for Imbalanced Text Classification

Yan, S., Xie, Z.

Evolutionary Latent Space Search for Real-Time Dynamic Vehicle Routing under Demand and Traffic Uncertainty

Li, L., Nie, X., Chang, L.

SAFAS: Simulated Algorithm Feature-enhanced Automated Algorithm Selection for Black-Box Optimization

Wu, S., Wu, X., Tan, K., Zhan, Z.

QuantumGS: Quantum Encoding Framework for Gaussian Splatting

Wilczyński, G., Tobiasz, R., Gora, P., Mazur, M., Spurek, P.

A Scalable Benchmark Test Suite for Dynamic Multi-Objective Optimization with a Changing Number of Objectives

Shang, K., Zhiyun, X., Liu, Y., Li, J., Wang, S., Sun, W.

Runtime Analysis of the $(\mu + 1)$ -ES in a Homogenous Progress Model

Lengler, J., Ravi, R.

GeneABAC: ABAC Policy Generation Optimized by Genetic Programming

Albert, R., Breabăn, M.

Constrained Hybrid Metaheuristic Algorithm Enhanced with Population Mixing Mechanism

Zakrzewski, G., Mańdziuk, J.

Combinatorial Landscape Analysis for Dominating Set and Vertex Coloring

Gasse, J., Heinen, A., Knöfel, F., Kötzing, T., Stanko, M.

The Suffering Salesperson

Heins, J., Franke, A., Leyser, M., Dengel, S., Kerschke, P.

Hybrid Adaptive RL Preference Learning in Multi-Objective Portfolio Optimisation

Soni, R., Craven, M., Walker, D., Stander, J.

Paper session 3

Feature- and Similarity-Based Explainability of Experimental Materials Data via Black-Box Hyperparameter Optimization

Filus, K., Cruz-Duarte, J., Korpyś, M., Kołodziej, A., Gancarczyk, A., Talbi, E., Domańska, J.

Structure vs. Constants: A Study of Coefficients in Cartesian Genetic Programming

Nadizar, G., Lavinas, Y., Olivetti de Franca, F., Cussat-Blanc, S., Wilson, D.

Energy-Efficient AI-assisted Evolution: A Case Study on Minimizing the Power Consumption of Deep Neural Crossover

Foyershtein, A., Merelo Guervós, J., Elyasaf, A.

Efficient Multi-child Recombination for Bi-Objective NK Landscapes: A Comparison to Exact Pareto Fronts

Kurivella, S., Chicano, F., Whitley, D., Cecere, F., Derbel, B.

Benchmarking the multi-objective evolutionary algorithms for solving non-linear multi-objective fixed-charge transportation problems

Pop, C., Sitar, P., Petrovan, A.

On the Influence of the Feature Computation Budget on Per-Instance Algorithm Selection for Black-Box Optimization

van der Blom, K., Vermetten, D.

Beyond IGO-Flow: Toward Convergence Analysis of IGO in Continuous Spaces

Kimura, R., Akimoto, Y.

Morphological Evolution of Aerial Robots: Comparing Genetic Encodings

Muff, J., Miras, K., Eiben, A.

SPEA2*: Improved Density Estimation in SPEA2 with Provable Runtime Guarantees

Dang, D., Opris, A., Sudholt, D.

Paper session 4

Mixed-Categorical Black-Box Optimization via Information-Geometric Bilevel Decomposition

Ong, M., Shirakawa, S., Akimoto, Y.

NEATWork: A Spatial Network Optimizer

Thomm, L., Schaler, E.

PAEvo: Plan-Algorithm Evolution with LLMs for Automatic Heuristic Design

Chu, Z., Yu, Z., Wang, J., Chen, J., Zhang, Z.

Optimal Learning Parameter of the σ SA-ES with Rescaled Mutations on the Rastrigin Function

Schönenberger, L., Beyer, H.

Circuit-Aware Hyperparameter Prediction for MPS Quantum Simulators

Leonteva, A., Outteryck, M., Masella, G.

Q-Learning-Integrated Real Coded Genetic Algorithms for the Circle Packing Problem

KUMAR, Y., Gupta, P., Deep, K.

Evolutionary Bi-Objective Optimization for Safer Student Cycling Routes: Algorithmic Design and Real-World Validation

Andrade-Ibarra, Y., Lara, A., Villagómez-Canela, L., Uribe, L., Guzmán, G.

Optimizing Transductive Few Shot Learning with Evolutionary Computation

Zhou, Z., Heywood, M.

DASOF-HSI: Dual-Stage Adaptive Subset Optimization Framework via Improved Harmony Search for Multimodal Mild Cognitive Impairment Detection

An, C., Li, A., Hu, Y., Geng, Y.

Reshaping the Fitness Landscape of Classification Rule Mining for Clinical Natural Language Processing

Lepers, M., Dhaenens, C., Caron, O., Jacques, J.

On the Generalization Bounds of Symbolic Regression with Genetic Programming

Nomura, M., Hamano, R., Ono, I.

Adaptive Protection for Evolutionary Feature Construction in Symbolic Regression with Application to Credit Classification

Zhang, H., Chen, Q., Xue, B., Yu, L., Banzhaf, W., Zhang, M.

Paper session 4

Effective Traveling for Metric Instances of the Traveling Thief Problem

Eube, J., Luo, K., Neumann, A., Neumann, F., Roeglin, H.

Determining Destroy Sets in Large Neighborhood Search by Generative Flow Networks

Bresich, M., Peng, J., Raidl, G., Limmer, S.

Prior Coverage and Search Bias in Multiview Symbolic Regression

Lira, H., Martí, L., Sanchez-Pi, N.

Solving Temporally Structured Decision Problems in Anticipatory Agent Networks

Skulimowski, A.

From Importance Shifts to Landscape Topology: Characterizing and Exploiting Hyperparameter Spaces in Parallel Reinforcement Learning

Zou, Y., Fan, Z.

Performance Indicators for Anytime Performance Analysis of Multi-Objective Evolutionary Algorithms

Pang, L., Ishibuchi, H.

Automated Construction of Algorithm Portfolios with Iterated Racing

Liu, X., López-Ibáñez, M., Stützle, T., Branke, J.

Surrogate Prediction of Evolutionary Algorithm Tournaments for Traffic Model Calibration

Chitty, D., Rowlands, S., Helal, A., Keedwell, E.

Theoretical Analysis of the (1+1)-EA-ES with Reduced Success Rule for Mixed Discrete-Continuous Optimization

Auger, A., Brockhoff, D., Kötzing, T., Sander, J.

Paper session 5

AutoEJS: Efficient and Effective Joint Hyperparameter and Architecture Search

Yan, Y., Wang, B., Yang, B., Chen, X., Liu, J., Wang, Q.

A Bi-Heuristic Initialized NSGA-II Algorithm for Multi-Skilled Human-Robot Collaborative Disassembly Line Balancing Considering Robot Technology Tiers and Operator Experience Levels

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Preference Guided Multiobjective Bayesian Optimization with Aspiration and Reservation Levels

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A Generator for Creating Streaming Continuous Optimisation Benchmarks

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Individual-level Parallelism of Genetic Algorithm

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