



18th International Conference on **Parallel Problem Solving From Nature**

September 14 - 18, 2024
Hagenberg, Austria

Griaß eich! [gri:əs aɪç] *common Austrian greeting formula*

Welcome to the International Conference on Parallel Problem Solving From Nature, held in the Softwarepark Hagenberg, nestled in the picturesque Mühlviertel region of Upper Austria. Here, amidst rolling hills and lush landscapes, we blend modern software technology and cutting-edge AI with the warm hospitality of our beautiful region. We look forward to an inspiring gathering filled with insightful discussions and a dash of Upper Austrian Gemütlichkeit. Let's innovate, collaborate, and maybe even enjoy a slice of local Linzer Torte and a sip of Mühlviertler beer!

Welcome to Hagenberg!

PPSN 2024 is hosted and supported by



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heal
Heuristic and Evolutionary
Algorithms Laboratory

Program at a Glance

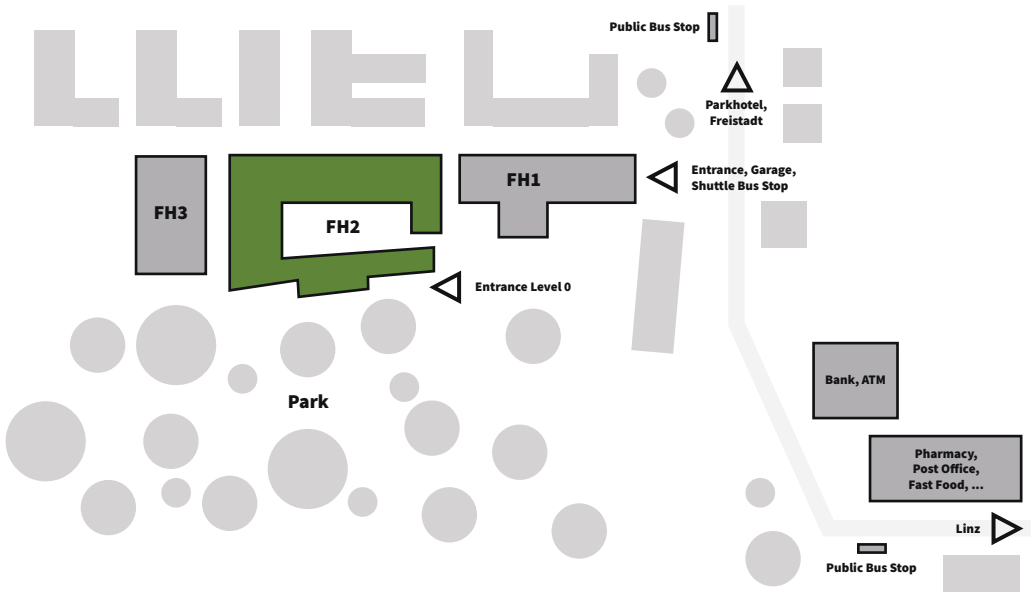
You can find the latest information on our website at ppsn2024.fh-ooe.at/program

	Saturday, 14.9.2024				Sunday, 15.9.2024					
8:00	Registratgion & Info Desk 8:00 - 9:00				Registratgion & Info Desk 8:00 - 9:00					
8:30	Lecture Hall Corridor				Lecture Hall Corridor					
9:00	Tutorial 1 9:00 - 10:30	Tutorial 2 9:00 - 10:30	Workshop 1 9:30 - 12:30 Audimax <i>BOS: Bayesian and Surrogate-assisted Search and Optimisation</i>		Tutorial 9 9:00 - 10:30	Tutorial 10 9:00 - 10:30	Workshop 3 9:30 - 12:30 Audimax <i>30 Years of EDAs</i>			
9:30	HS3 <i>Decomposition Evolutionary Multi-Objective Optimization</i>	HS4 <i>A Gentle Introduction to Theory (for Non-Theoreticians)</i>			HS3 <i>Pareto Optimization for Subset Selection: Theories and Practical Algorithms</i>	HS4 <i>Advanced Use of Automatic Algorithm Configuration</i>				
10:00										
10:30	Coffee Break 10:30 - 11:00, Break Room				Coffee Break 10:30 - 11:00, Break Room					
11:00	Tutorial 3 11:00 - 12:30	Tutorial 4 11:00 - 12:30	Workshop 2 13:30 - 17:00 Audimax <i>Good Benchmarking Practices for Evolutionary Computation BENCHMARKING</i>		Tutorial 11 11:00 - 12:30	Tutorial 12 11:00 - 12:30	Workshop 4 13:30 - 17:00 Audimax <i>Multimodal Multi-objective Optimization</i>			
11:30	HS3 <i>CMA-ES</i>	HS4 <i>Mathematical Programming as a Complement to Bio-Inspired Optimization</i>			HS3 <i>Introduction to Evolution Strategies for Constrained Optimization Problems</i>	HS4 <i>Runtime Analysis of Population-based Evolutionary Algorithms</i>				
12:00										
12:30	Lunch Break 12:30 - 13:30 Break Room				Lunch Break 12:30 - 13:30 Break Room					
13:00			Workshop 2 13:30 - 17:00 Audimax <i>Good Benchmarking Practices for Evolutionary Computation BENCHMARKING</i>		Tutorial 13 13:30 - 15:00	Tutorial 14 13:30 - 15:00	Workshop 4 13:30 - 17:00 Audimax <i>Multimodal Multi-objective Optimization</i>			
13:30	Tutorial 5 13:30 - 15:00	Tutorial 6 13:30 - 15:00			HS3 <i>Theory of Estimation-of-Distribution Algorithms</i>	HS4 <i>Large Language Models as Tools for Metaheuristic Design</i>			HS3 <i>Structural bias in optimisation algorithms</i>	HS4 <i>Transfer Learning in Evolutionary Spaces</i>
14:00										
14:30										
15:00	Coffee Break 15:00 - 15:30, Break Room		Coffee Break 15:00 - 15:30, Break Room							
15:30	Tutorial 7 15:30 - 17:00	Tutorial 8 15:30 - 17:00	Workshop 2 13:30 - 17:00 Audimax <i>Good Benchmarking Practices for Evolutionary Computation BENCHMARKING</i>		Tutorial 15 15:30 - 17:00	Tutorial 16 15:30 - 17:00	Workshop 4 13:30 - 17:00 Audimax <i>Multimodal Multi-objective Optimization</i>			
16:00	HS3 <i>Constraint Handling in Multiobjective Optimization</i>	HS4 <i>Instance Space Analysis for Rigorous and Insightful Algorithm Testing</i>			HS3 <i>Adversarial Optimisation through Competitive Co-evolutionary Algorithms</i>	HS4 <i>Robot Evolution</i>				
16:30										

	Monday, 16.9.2024	Tuesday, 17.9.2024	Wednesday, 18.9.2024
8:00	Registratgion & Info Desk 8:00 - 9:00	Registratgion & Info Desk 8:00 - 9:00	Registratgion & Info Desk 8:00 - 9:00
8:30	Lecture Hall Corridor	Lecture Hall Corridor	Lecture Hall Corridor
9:00	Opening 9:00 - 9:30, Audimax	Keynote by Richard Küng 9:00 - 10:00 Audimax	Keynote by Bernadino Romera-Paredes 9:00 - 10:00 Audimax
9:30	Keynote by Oliver Schütze 9:30 - 10:30 Audimax		
10:00		Coffee Break 10:00 - 10:30, Break Room	Coffee Break 10:00 - 10:30, Break Room
10:30	Coffee Break 10:30 - 11:00, Break Room	Poster Session 4 10:30 - 12:30 HS5 <i>Paper IDs:</i> 73, 125, 140, 153, 156, 163, 167, 185, 199, 208, 294, 300	Poster Session 7 10:30 - 12:30 HS5 <i>Paper IDs:</i> 81, 176, 179, 186, 211, 213, 220, 227, 230, 265, 279, 286
11:00	Poster Session 1 11:00 - 12:30 HS5		
11:30	<i>Paper IDs:</i> 8, 38, 44, 62, 76, 94, 116, 123, 149, 276, 277, 296, 298		
12:00			
12:30	Lunch Break 12:30 - 13:30 Break Room	Lunch Break 12:30 - 13:30 Break Room	Lunch Break 12:30 - 13:30 Break Room
13:00			
13:30	Poster Session 2 13:30 - 15:00 HS6	Poster Session 5 13:30 - 15:00 HS6 <i>Paper IDs:</i> 110, 157, 164, 165, 166, 171, 212, 228, 232, 239, 260, 274	Poster Session 8 13:30 - 15:00 HS6 <i>Paper IDs:</i> 9, 15, 43, 147, 226, 233, 234, 236, 254, 261, 285, 303
14:00	<i>Paper IDs:</i> 56, 82, 96, 99, 103, 105, 109, 113, 142, 143, 158, 204, 223		
14:30			
15:00	Coffee Break 15:00 - 15:30, Break Room	Coffee Break 15:00 - 15:30, Break Room	Closing 15:00 - 15:30, Audimax
15:30	Poster Session 3 15:30 - 17:00 HS5	Poster Session 6 15:30 - 17:00 HS5 <i>Paper IDs:</i> 89, 115, 127, 190, 193, 200, 201, 207, 221, 242, 252, 269, 302	
16:00	<i>Paper IDs:</i> 16, 67, 106, 114, 120, 126, 146, 152, 154, 168, 177, 256, 297		
16:30			

Venue Map

Softwarepark Hagenberg Center



FH2 Level 0



Social Events

The program includes two social events during the main conference days: A welcome reception at the Ars Electronica Center (AEC) Linz and the conference dinner at the restaurant of our local brewery "Freistädter Bier". For both events a shuttle bus service to the event venues and back to the conference venue Hagenberg and to Linz will be provided.



Welcome Reception at Ars Electronica Center

Monday 19:00 - 22:00, September 16, 2024
Ars-Electronica-Straße 1, 4040 Linz, Austria

On Monday, we invite you to the Ars Electronica Center (AEC) Linz - museum of the future - where interactive stations, works of art, research projects, large-scale projections and laboratories are presented. After the Deep Space 8k session you'll enjoy a flying dinner at the rooftop restaurant. For any further information regarding the Ars Electronica Center, have a look at their website.

<https://ars.electronica.art/center/en/>



Conference Dinner at Freistädter Brauhaus

Tuesday 19:00 - 22:00, September 17, 2024
Brauhausstraße 2, 4240 Freistadt, Austria

On Monday, we invite you to the Freistädter Brauhaus, where you'll have the opportunity to taste the local beer, lemonades, etc. and enjoy the cuisine of the "Mühlviertel" region, where this year's edition of PPSN is taking place. After a welcome drink at the brewery, we'll have dinner at their restaurant with regional specialities. For any further information regarding the Freistädter Brauhaus, have a look at their website.

<https://www.freistaedter-bier.at/>

Shuttle Bus

We provide a shuttle bus service between the conference venue **FH OÖ Hagenberg**, Linz city center at **Lentos Art Museum Shipping Pier** and the social event venues **Ars Electronica Center Linz** & **Freistädter Brauhaus**.

Sa	14.9.	07:45	Lentos Shipping Pier	→ FH OÖ Hagenberg
Sa	14.9.	17:45	FH OÖ Hagenberg	→ Lentos Shipping Pier
Su	15.9.	07:45	Lentos Shipping Pier	→ FH OÖ Hagenberg
Su	15.9.	17:45	FH OÖ Hagenberg	→ Lentos Shipping Pier
Mo	16.9.	08:00	Lentos Shipping Pier	→ FH OÖ Hagenberg
Mo	16.9.	18:30	FH OÖ Hagenberg	→ Ars Electronica Center
Mo	16.9.	22:00	Ars Electronica Center	→ FH OÖ Hagenberg
Tu	17.9.	08:00	Lentos Shipping Pier	→ FH OÖ Hagenberg
Tu	17.9.	18:30	FH OÖ Hagenberg	→ Freistädter Brauhaus
Tu	17.9.	22:00	Freistädter Brauhaus	→ FH OÖ Hagenberg
We	18.9.	08:00	Lentos Shipping Pier	→ FH OÖ Hagenberg
We	18.9.	16:15	FH OÖ Hagenberg	→ Lentos Shipping Pier

Pfiat eich! [pfiat aɪç] *common Austrian farewell formula*

We hope you've enjoyed your stay in Hagenberg, Upper Austria and experienced a remarkable PPSN 2024!

We look forward to seeing you again in Hagenberg!



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