

ANTS 2024

14th International Conference on Swarm Intelligence

October 9-11, 2024. Konstanz, Germany

Up-to-date information at <https://www.uni-konstanz.de/ants-2024/>

Scope of the Conference

Swarm intelligence is the discipline that deals with the study of self-organizing processes both in nature and in artificial systems. Researchers in ethology and animal behavior have proposed a number of models to explain interesting aspects of collective behaviors, such as movement coordination, shape formation, and decision making. Algorithms and methods inspired by these models have been proposed to solve difficult problems in many domains. We highlight ant colony optimization (ACO) focusing on discrete optimization problems and particle swarm optimization (PSO) that is specialized for continuous optimization problems. The application of swarm intelligence to robotics is swarm robotics with focus on designing collaborative multi-robot systems that show high degrees of robustness and scalability. With ANTS 2024 we want to give researchers in swarm intelligence the opportunity to meet, to present their latest research, and to discuss current developments and applications. The three-day conference will be held for the first time in Konstanz, Germany, on October 9-11, 2024.

Relevant Research Areas

ANTS 2024 welcomes contributions dealing with any aspect of swarm intelligence. Topics of interest include:

- theoretical and empirical research in swarm intelligence
- application of swarm intelligence methods (e.g., ant colony optimization, particle swarm optimization) to real-world problems
- theoretical and experimental research in swarm robotics systems
- behavioral models of social insects or other animal societies that can stimulate new algorithmic approaches

Important Dates

Submission deadline:	March 24, 2024
Notification of acceptance:	May 15, 2024
Camera ready copy:	May 29, 2024
Conference:	October 9-11, 2024

Publication Details

Conference proceedings will be published by Springer in the LNCS series, as those of the last editions of the ANTS Conference. The journal Swarm Intelligence will publish a special issue dedicated to ANTS 2024 that will contain extended versions of the best research works presented at the conference. Further details will soon be published on the web site.

Conference Location

The conference will be hosted by the University of Konstanz in collaboration with the Centre for the Advanced Study of Collective Behaviour. The venue is beautifully located close to the city center of Konstanz and the lake of Constance.

ANTS 2024 Organizing Committee

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Heiko Hamann, University of Konstanz, Konstanz, Germany

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Marco Dorigo, Université Libre de Bruxelles, Brussels, Belgium

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Publication chair

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Paper submission chair

Eduard Buss, University of Konstanz, Konstanz, Germany

Further Information

Up-to-date information will be published at the following address:

<https://www.uni-konstanz.de/ants-2024/>