Franco-German Interdisciplinary Workshop on Pedestrian Dynamics and Urban Mobility













• 25-28 June 2024, Wuppertal (Germany)

Registration & program: pedum24.sciencesconf.org



The aim of this workshop is to provide a **multidisciplinary forum** for discussion and exchange, bringing together young researchers and experts from **computer science**, **physics**, **mathematics**, **data science**, **engineering**, **sociology**, and **psychology** on topics related to the modelling of **pedestrian dynamics** and **urban mobility**. **Young researchers** at the doctoral or post-doctoral level, as well as students at the end of their Masters, will be particularly welcome.

The workshop is supported by the Franco-German University. The registration is free!



Research topics

The topics are categorised into three main research axes covering a wide range of approaches to modelling **pedestrian**, **bicycle**, and **vehicle** behaviours and their dynamics.

Topic 1 Physics- and optimisation-based models

Bio-physics models, motion cost functions, multi-criteria optimisation

Topic 2 Socio-psychological factors

Pairwise vs holistic interaction, situation and behaviour identification

Topic 3 Data-driven algorithms

Deep learning, cost and evaluation metrics

Cross-disciplinary transversal topics

Hybrid modelling (physics/optimisation, physics/socio-psychology, physics/data-driven); **Mixed urban traffic**; **Multi-agent systems**







