A postdoctoral researcher position
Geometric Deep Learning

Hosting institute

ICube Laboratory (The Engineering science, computer science and imaging laboratory) at the University of Strasbourg is a leading research center in Computer Science, with more than 300 permanent researchers, with the recently opened AI graduate school supported by the French government.

Work place and salary

The work will take place in the MLMS (Machine Learning, Modeling & Simulation) research team of the ICube laboratory. The workplace is located on the hospital site of the laboratory, a 10-minute walk from the heart of downtown Strasbourg, listed as a UNESCO World Heritage Site.

€3,021.50 gross monthly, depending on experience.

Supervisors

– director: Hyewon Seo (ICube, Univ. Strasbourg)

– co-supervisors: Cédric Bobenrieth (ICAM, Strasbourg)

Staring date

March 2025 – April 2025.

Work description

In the framework of a binational, tri-institutional project titled HuMoCar: Realistic Human Models for Care Robots for Aged People (October 2021 - October 2025), our objective is to improve the robustness of vision and artificial intelligence systems against large variations and occlusion. This project also aims to facilitate the management of specific interactions by developing a realistic, physics-compliant 4D human model. Our specific goal is to develop generative or segmentation models for 4D dressed humans, using geometric deep learning on annotated datasets. Several downstream tasks will be defined and developed, including the prediction of dynamic cloth shapes and segmentation of mesh data. Geometric deep learning models will be deployed, based on a homogeneous representation of the surface data. The recruited researcher will work in close collaboration with other researchers (PhD/Master students and permanent researchers) involved in the project.

Candidate profile

− PhD degree in Computer Science

− Solid programming skills on deep learning

− Experience in geometric deep learning is a plus

Application

Respond to the offer 'UMR7357-HYESEO-019' at https://emploi.cnrs.fr/ or send your CV to seo@unistra.fr, for (a) possible interview(s).