



Open Postdoc Position at the AASS Learning Systems Lab

Pollution Monitoring with Mobile Gas Sensors

Open Position

This Postdoc position is immediately available at the AASS Learning Systems Lab, University of Örebro, Sweden. Its runtime is initially limited to 18 months fully funded within the EU project DHRS-CIM (Project Leader: Dr. Achim J. Lilienthal).

Örebro University

The University of Örebro (<http://www.oru.se>) is a young university currently enrolling more than 14000 students. It is located in Örebro, a city with 100'000 inhabitants, which is situated in central Sweden at 59°16'N 15°13'E. More information about Örebro can be found, for example, at <http://en.wikipedia.org/wiki/Örebro>.



The AASS Learning Systems Lab

The Centre for Applied Autonomous Sensor Systems (AASS Research Centre, <http://aass.oru.se>) carries out multi-disciplinary research at the intersection of robotics, machine learning, artificial intelligence, computer vision, computer science, and measurement technology. The research and human environment at AASS is young and enthusiastic. Researchers come from different countries and have different scientific and cultural backgrounds. AASS also frequently hosts international researchers and is involved in several international projects. This means that, particularly in the DIADEM project, enrolled PhD students will have the opportunity to travel and to cooperate with people in other countries.



The Learning Systems Lab is one of three research groups within AASS. Our research is recognized world-wide with its focus generally on the development of algorithms and robotic/sensor systems for real-world tasks.

Major directions are Mobile Robot Olfaction, Robotic Map Learning, Safe Operation in Dynamic Shared Environments, and Dexterous Manipulation and Motion Learning. Further information can be found at <http://www.aass.oru.se/Research/Learning>. Currently, the staff of the Learning Systems Lab includes 7 PhD students, 5 postdocs and 3 professors.



The DHRS-CIM Project

This is a Marie Curie IAPP (Industry-Academia Partnerships and Pathways) project funded by the European Union (Call: FP7-PEOPLE-2007-3-1-IAPP). The general objective is to combine forces of leading industrial and academic organizations in Europe in the field of "Disaster Management" in order to develop an intelligent decision support system for humans to manage chemical incidents.

The Postdoc Position

The particular contributions expected from the employed postdoc in the DHRS-CIM project are to develop (1) 2D and 3D gas source tracking algorithms that are reliable and time-efficient under outdoor conditions and (2) advanced gas distribution models that aid prediction of gas propagation, sensor planning and gas source tracking. The project work might include a short research visit of one of our DHRS-CIM partners.

The employed senior researcher will be part of the Mobile Robot Olfaction group at the AASS Research Centre, which currently consists of two senior researchers and two PhD candidates. Two further PhD positions related to *Pollution Monitoring with Mobile Gas Sensors* are currently announced within a second European project DIADEM and can be fixed from 1st of September 2008 on. Supervision of these PhD candidates will be a part of the duties in this position.

This position does not include teaching duties.

Prerequisites and Application Process

Interested candidates with a PhD in a relevant field can apply by sending a letter of motivation along with their documents (CV, copy of PhD diploma, documentation of the scientific skills, including a list of publications, key papers and at least two academic references) by e-mail to Achim Lilienthal (achim.lilienthal@oru.se). Applications can be sent immediately and will be considered until the position is fixed.

It is not necessary to be familiar with the Swedish language but proficiency in written/spoken English is mandatory.

For further information please contact Achim Lilienthal (achim.lilienthal@oru.se).