

Postdoctoral Researcher

Ecole/Institution/Société:

University of Oulu, Finland / Oulu

Discipline:

Machine Learning

Type d'emploi::

Full-time

Date de publication:

2021-03-06

Personne à contacter:

If you wish to apply for this position, please specify that you saw it on AKATECH.tech

Postdoctoral Researcher For Machine Vision And Signal Analysis

Job Description

The North changes the world - more sustainable, more intelligent, more humane. We, at the University of Oulu, work as part of the international science community to produce new scientific information and science-based solutions. We are committed to educate future pioneers to build a more sustainable, intelligent and humane world.

Creating new, taking responsibility and succeeding together are values that build a strong foundation for all our actions. We offer a working environment where individuals can cultivate their skills, do meaningful work, and develop professionally. Our university's several specialized research and service units enable extensive and diverse development and career opportunities for experts in various fields.

Related to this position, University of Oulu possesses strong expertise in artificial intelligence, wireless communications engineering, medicine, Humanities, and business, and close cooperation with various research institutes and companies, which has created an internationally significant research and innovation hub that is changing the world and securing our well-being.

Applications are invited for two Postdoctoral Researcher positions to join a research project headed by Professor Guoying Zhao in the Center for Machine Vision and Signal Analysis Research Unit (CMVS, <http://www.oulu.fi/cmvs>), to work on

- Spontaneous facial expression analysis,
- Emotional data collection and processing (preferred with Psychological background)
- Remote physiological signal measure from video analysis.

Subject field and description of the position

Successful applicants would work in the field of computer vision and machine learning, carrying out the following tasks:

- Develop new methods for solving problems in facial expression, physiological signal measure from videos and general neural network learning, or in emotional data collection and processing with psychological background (depending on what project the candidate would participate)

- Analyze the experimental results, be able to find out the problems and adjust to new solutions
- Collaborate with other team members working in the same projects or same subject
- Write research papers and technical reports
- Help the supervisor guide junior researchers and manage projects

About CMVS

CMVS (<http://www oulu.fi/cmvs>) provides an inspiring and international research environment. CMVS is renowned world-wide for its scientific breakthroughs in machine vision and signal analysis. Many of its results, including the Local Binary Pattern, face analysis and geometric camera calibration methodologies, are highly cited and have been adopted for different types of problems and applications around the world.

The unit is internationally attractive, with one visiting FiDiPro Professor and one Fellow, several visiting scholars and an extensive international collaboration network, enabling a large number of joint publications in leading forums. The main research interests of CMVS are in computer vision and machine learning, affective computing, multimodal image and signal analysis, low-energy computing, and applications in affective human-computer interaction, biometrics, augmented reality, and biomedicine.

In physiological signal analysis basic, applied and translational research in biomedical engineering is carried out to tackle key challenges of next generation personalized medicine and wellness solutions. In its field the Research Unit is globally highly ranked with research activities based on international collaborations. The partners of CMVS include three institutes of Chinese Academy of Sciences (Computing Technology, Psychology, and Automation), National University of Singapore, University of Georgia (USA), Imperial College London, Czech Technical University (Prague), University of Maryland (USA), Idiap Research Institute (Switzerland), and EPFL (Switzerland).

Required qualifications and assessment

A successful candidate for Postdoctoral Researcher position must hold a doctoral degree in computer science or electrical engineering with previous experience and publications on computer vision or a related area. Strong publication record is expected. Also, good knowledge of spoken and written English is required and strong mathematical and programming skills with C / C ++ / Matlab / python are respected.

Salary and benefits

- The salary of the appointed Postdoctoral Researcher will be based on demand level 5-6 of the salary chart of teaching and research staff of Finnish universities. In addition, a salary component based on personal work performance will be paid (maximum of 50% of the job-specific component).
- The typical starting salary for a Postdoctoral Researcher is 3500 - 3850 € / month (before taxes), depending on qualifications, performance and experience.
- You will become a part of a highly talented research group, working on strategically and globally significant research area.
- You will receive support not only from your team and supervisor, but also from university's wide variety of support services, so that you can excel in your research.
- In addition to modern research facilities, we offer you personnel benefits such as affordable sport services and salary payments for 12 months / year.
- The employed person will be insured by the university and provided occupational healthcare. Finland is known as a country with a high quality of life and good healthcare system.

Application procedure

Applications, together with all relevant enclosures, must be submitted using the electronic application.

The following documents must be attached to the application (to be submitted in English):

- Curriculum vitae formatted according to the template of the Finnish Advisory Board on Research Integrity (<http://www.tenk.fi/en/template-researchers-curriculum-vitae>)
- List of publications formatted according to the template of the Academy of Finland (<https://www.aka.fi/en/funding/apply-for-funding/az-index-of-application-guidelines/list-of-publications/>), so that the six (6) publications most relevant to the position are clearly marked
- A brief (maximum of 2 pages), tentative research plan on the topic area of this call, in English.
- Contact information of two to three (2-3) persons, who may be asked to give a statement on the candidate
- Scanned copies of your degree certificates and transcript of records

For further information, please contact

Professor Guoying Zhao

Center for Machine Vision and Signal Analysis Research

Faculty of Information Technology and Electrical Engineering

Tel: +358 294 487564

Email: guoying.zhao@oulu.fi

Personne à contacter:

If you wish to apply for this position, please specify that you saw it on AKATECH.tech