

Seeking an Candidate for Our Call for Doctoral Funding Applications

Organisation: University of LIMOGES

Research Field: Rehabilitation and stroke

Application deadline: 13th october 2023

Offer starting date : 01/01/2024

Responsible to: Prof. Stéphane Mandigout

Location: OmegaHealth Institute – HAVAE UR 20217

123, avenue Albert Thomas, Limoges 87060, France

Type of contract : PhD Student

Job status : Full-time

EU research framework : Horizon Europe

Job description:

Health services are increasingly moving towards a treatment continuum aligned with the patient journey. This transition will critically depend on the successful deployment of trustworthy AI-enhanced technologies that are accurate, secure, and trusted. The recruitment will be in the framework of the European-Union funded project AISN. The AISN project will develop and validate operating procedures and guidelines for integrating AI in a healthcare continuum, focussing on post-stroke rehabilitation. AISN delivers a representative AI health platform built from integrating validated platforms for data acquisition and access, clinical interpretation, whole-brain simulation, clinically validated intervention delivery and optimization and model-based prediction. The AISN integrated platform will be validated in the clinical context of rehabilitation in the outpatient and at-home phase and facilitate a concrete assessment of the fundamental ways in which AI-enhanced clinical decision-support will change the care pathway and the formulation of novel AI compatible treatment guidelines. AISN ensures an ethical approach by developing legal and ethical guidelines for the robust, fair, and trustworthy deployment of AI in

health and validating acceptance and transparency of its solutions. Building on the AISN platform, the project will test current standard operating procedures for integrating AI in health care and formulate and validate new ones where needed. The AISN guidelines and procedures will emphasize the evidence base and safety of clinical interventions, transparency, prognostics at varying time-scales, personalization of interventions, access to disease-specific information by clinicians, patients and their careers, and assure that the potential of AI is fully developed in the service of value-based medicine satisfying standards of security and safety. We will go beyond currently available guidelines and frameworks by emphasizing explainability, AI tools with evolving performance, and the dynamic interaction between users and algorithms.

(<https://ai-sn.eu/team>)

Duties and Responsibilities:

1. To work in a physical medicine and rehabilitation department
2. To work interprofessionally to recruit, include, evaluate and propose an intervention for post-stroke patients at home.
3. Participate in consortium meetings (in English)
4. To prepare written reports for the project, to attend project meetings, and to interact with other parties involved in the project.
5. To prepare scientific papers for publication, both in international journals and at conferences. To attend conferences in order to present the results of research and to interact with the broader scientific community.
6. To work on related scientific projects as required
7. To report on a regular basis to the project investigator.

Duration of appointment: 3 years. Salary: ~ 2100€/month.

For more information on the position and application please contact Prof Stéphane Mandigout (stephane.mandigout@unilim.fr) send CV and motivation letter.

Skills/Qualifications:

- REQUIRED LANGUAGES : ENGLISH: Desired, FRENCH : Excellent
- QUALIFICATIONS : physiotherapist or occupational therapist with a master degree and sports science with master degree .
- EXPERIENCES/KNOWLEDGE :
experience in upper limb rehabilitation, in rehabilitation, in stroke

- SKILLS :

Time management

Team work

Scientific writing

- ATTRIBUTES:

Team worker

Motivated

Hard worker

Initiative

Ability to communicate