INSTITUT DES SYSTEMES INTELLIGENTS ET DE ROBOTIQUE

OFFRE D'EMPLOI

Fiche de poste

Intitulé du poste : Machine learning for human-robot collaboration

Type de poste : **Post–Doc ou Ingénieur·e**

Date de début de contrat : dès que possible

Durée du contrat : 18 mois

Quotité de travail : 100%

Niveau d'études souhaité : Master / Ecole d'Ingénieur·e – Doctorat

Montant rémunération : selon l'expérience

Laboratoire d'accueil : ISIR (*Institut des Systèmes Intelligents et de Robotique*), Campus Pierre et Marie Curie, 4 place Jussieu, 75005 Paris.

Personne à contacter

Prénom Nom : Mohamed Chetouani

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Candidature : Envoyer votre candidature par mail, avec [*nom de l'offre*] en objet, un CV et une lettre de motivation.

Date limite de dépôt de la candidature : 30 avril 2025

Description du poste

Context and objectives :

This position focuses on developing machine learning techniques to enhance human awareness in human-robot interaction by integrating situation assessment and action planning.
The successful candidate will contribute to cutting-edge research at the intersection of robotics, artificial intelligence, and human interaction, with an emphasis on designing and evaluating robotic systems that facilitate seamless collaboration with humans.

The position is for 18 months contract, but there is a possibility to be extended depending on the performance and circumstances.
The position is open at both the engineer and post-doctoral levels for candidates with a strong background in machine learning, human-machine interaction, or robotics.

Responsibilities:

- Develop advanced situation assessment techniques using machine learning to accurately represent user preferences, behaviors, and characteristics based multimodal data to efficiently plan actions.
- Collaborate with interdisciplinary teams including computer scientists, humanities, and designers to ensure the usability and effectiveness of developed techniques.

- Publish research findings in top-tier conferences and journals in the field of Human-Machine Interaction and Machine Learning (mainly at the post-doc level)

Requirements :

The successful candidate should have:

- Experience in human-machine interaction
- Good knowledge of Machine Learning Techniques
- Good knowledge of experimental design and statistics
- Excellent publication record
- Strong skills in Python
- Willing to work in multi-disciplinary and international teams
- Good communication skills

Application :

Interested candidates should submit the following by email in a single PDF file to: mohamed.chetouani[@]sorbonne-universite.fr with the subject: Application ML for Human-Robot Collaboration

1. Curriculum vitae with 2 references (recommendation letters are also welcome)
2. One-page summary of research background and interests
3. At least three papers (either published, accepted for publication, or pre-prints) demonstrating expertise in one or more of the areas mentioned above
4. Doctoral dissertation abstract and the expected date of graduation for a post-doc position levale (for those who are currently pursuing a Ph.D)

Application's deadline: **April 21, 2025.**