



Offre n°2024-07433

Post-Doctoral Research Visit F/M EICACS

Type de contrat : Fixed-term contract

Niveau de diplôme exigé : PhD or equivalent

Fonction : Post-Doctoral Research Visit

Contexte et atouts du poste

This position contributes to a European project which involves partners from both industry and academia of various European countries.

The goal of the project include:

1. The promotion or development of design rules and interoperability standards,
 - to ensure the interoperability of collaborative heterogeneous assets
 - to support secure sharing of resources and exchange of data and information between those systems and platforms for the benefit of the mission execution and performance in systems of systems contexts
 - to offer mission system software scalability to speed up integration of new capabilities
 - to contribute to the interoperability of mission system execution platforms
2. To define functional interfaces of sensors the assessment of questions brought by the implementation of AI technologies, including :
 - Using trustable AI-based functions
 - European autonomy over AI engineering tools, algorithm libraries and methods enabling the use of AI in military assets
 - Compatibility of tools and processes for the development, the validation, the qualification and the certification of AI-driven operational services

The position generally requires working on a state-of-the-art analysis of Artificial Intelligence and related technologies in order to identify appropriate tools and libraries for autonomy.

Mission confiée

The required research includes in-depth analysis of selected software libraries. Specific metadata information associated to each software under investigation needs to be identified and registered, including cybersecurity risks related to the usage of each software library.

Based on relevant state- of- the- art, preliminary ideas how to support the mitigation of cognitive biases - included in a speech and data processing environment that is used intelligence analysis.

Some other directions that the research can contribute concerning speech processing are :

- Speaker verification using machine learning model
- Knowledge reasoning for semantic audio segmentation

Additionally, testing of Artificial Intelligence functions and libraries may be required. An investigation of frameworks and models will be conducted to identify the accurate framework that can ensure the future model of the system. The challenges of the autonomous environment will be analyzed to provide an accurate solution concerning the needs defined in the project. This will involve editing and modifying the software libraries so that to assure the needs of the project.

Principales activités

- Desktop research of software tools and libraries in AI
- Creating state-of-the-art analysis and benchmarking analysis
- Performing data and functional analysis
- Software testing
- Working with sensitive data
- Writing scientific reports

- Presentation of the work done

Compétences

We are looking for a highly motivated, creative, and independent researcher with a PhD and strong research background in scientific machine learning.

The following skills are required :

- Knowledge in Artificial Intelligence in particular machine learning and deep learning approaches
- Scientific expertise and an ambitious, independent, and problem-solving attitude are highly valued
- Excellent communication skills in both spoken and written English are a must, as is the ability to interact and work in a translational team of multi-disciplinary technical colleagues on an international level.
- Programming skills – Python, Scikit-learn library
- Emphasis will also be placed on personal competence creating presentations
- Phd with proficiency in English

Rémunération

Post doc = 2788 € bruts / gross per month.

Informations générales

- **Ville** : Paris
- **Centre Inria** : [Siège](#)
- **Date de prise de fonction souhaitée** : 2024-07-01
- **Durée de contrat** : 12 months
- **Date limite pour postuler** : 2024-06-27

Contacts

- **Équipe Inria** : MIS-DEFENSE
- **Recruteur** :
Maillet Florence / florence.maillet@inria.fr

A propos d'Inria

Inria est l'institut national de recherche dédié aux sciences et technologies du numérique. Il emploie 2600 personnes. Ses 215 équipes-projets agiles, en général communes avec des partenaires académiques, impliquent plus de 3900 scientifiques pour relever les défis du numérique, souvent à l'interface d'autres disciplines. L'institut fait appel à de nombreux talents dans plus d'une quarantaine de métiers différents. 900 personnels d'appui à la recherche et à l'innovation contribuent à faire émerger et grandir des projets scientifiques ou entrepreneuriaux qui impactent le monde. Inria travaille avec de nombreuses entreprises et a accompagné la création de plus de 200 start-up. L'institut s'efforce ainsi de répondre aux enjeux de la transformation numérique de la science, de la société et de l'économie.

Attention: Les candidatures doivent être déposées en ligne sur le site Inria. Le traitement des candidatures adressées par d'autres canaux n'est pas garanti.

Consignes pour postuler

To apply, please send your CV and motivation letter.

Sécurité défense :

Ce poste est susceptible d'être affecté dans une zone à régime restrictif (ZRR), telle que définie dans le décret n°2011-1425 relatif à la protection du potentiel scientifique et technique de la nation (PPST). L'autorisation d'accès à une zone est délivrée par le chef d'établissement, après avis ministériel favorable, tel que défini dans l'arrêté du 03 juillet 2012, relatif à la PPST. Un avis ministériel défavorable pour un poste affecté dans une ZRR aurait pour conséquence l'annulation du recrutement.

Politique de recrutement :

Dans le cadre de sa politique diversité, tous les postes Inria sont accessibles aux personnes en situation de handicap.