



Offre n°2025-08848

Post-Doctoral Research Visit F/M Post-Doctoral Research F/M embodied conversational agents with adaptive personality

Type de contrat : Fixed-term contract

Contrat renouvelable : Oui

Niveau de diplôme exigé : PhD or equivalent

Fonction : Post-Doctoral Research Visit

Contexte et atouts du poste

Within the framework of a large international project on adaptive personality in conversational agents,, Inria is responsible for investigating the impact of interpersonal factors on the display of personality, in people and in conversational agents that interact with people. This involves collecting a corpus of dialogues by groups of 4 people, whose personality traits will have been assessed, and who will work on a series of 3 tasks. (to match the corpora collected in other languages). The corpus will then be annotated and analyzed for the impact of various psychological, linguistic, and interpersonal factors such as the strength of social bonds among the interactants, the personality traits of the different members of the group, the nature of the task, and so forth, on the verbal and nonverbal display of personality. Results will then be applied to the implementation of embodied conversational agents that represent the results, and the agents will be tested in interaction with people to assess the impact of “interpersonality” on the success of human-machine interaction.

Mission confiée

The successful candidate will participate in and guide:

Reading and summarizing relevant prior research

The collection of data, and rigorous construction, annotation, and dissemination of a corpus of human-human multiparty task-oriented interaction.

The statistical and machine learning analysis of the multimodal data to understand the ways in which psychological, linguistic, and interpersonal factors impact the display of personality traits.

The development of machine learning models of the phenomena
The implementation of those models in end-to-end embodied conversational agents
The writing of reports for the project partners, and publication of results in top-tier journals

As a part of this research initiative, the successful candidate will be responsible for managing younger scholars, such as PhD and masters students as well as study engineers.

For a better understanding of the context in which this novel research is carried out, candidates can consult publications on SARA (the Socially-Aware Robot Assistant and other more recent LLM-based dialogue topics found here: <http://articulab.hcii.cs.cmu.edu/publications/>).

Principales activités

Main activities :

Spearhead data collection and data management.

Take the initiative to discover and develop novel pertinent annotation and analysis methodologies

Play a key role in collaboration with research partners.

Regularly write documentation and reports for the local team and research partners.

Write and publish on the research.

Additional Activities :

Take the initiative to maintain contact and understand requirements of research partners
Manage and support younger scholars.

Prepare slides and demos for conferences, partners and visitors.

Compétences

Technical skills and level required :

Background and research experience in computational linguistics, dialogue systems, and/or conversational agents

Solid competence in machine learning methods for data analysis and for implementing end-to-end dialogue systems

Ability to manage younger scholars
History of publications in top venues
Preference will be given to candidates who demonstrate experience with multimodal data

Languages :

High-level written and spoken English is required. Knowledge of French is a plus.

Relational skills :

Ability to work in a team, and collaborate with others from different disciplines and backgrounds.

Ability to work independently.

Ability to manage other team members

Theoretical background in one or several of the following fields is required: cognitive science, linguistics, sociolinguistics, Psychology, Computer science

Avantages

- Subsidized meals
- Partial reimbursement of public transport costs
- Leave: 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, moving home, etc.)
- Possibility of teleworking and flexible organization of working hours
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

Informations générales

- **Thème/Domaine** : Data and Knowledge Representation and Processing
Data production, processing, analysis (BAP D)
- **Ville** : Paris
- **Centre Inria** : [Centre Inria de Paris](#)
- **Date de prise de fonction souhaitée** : 2025-10-01
- **Durée de contrat** : 2 years
- **Date limite pour postuler** : 2025-09-30

Contacts

- **Équipe Inria** : [ALMANACH](#)
- **Recruteur** :
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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

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.