Offer #2023-07054

Post-Doctoral Research Visit F/M Robust non-parametric bandit algorithms

Contract type: Fixed-term contract
Level of qualifications required: PhD or equivalent
Function: Post-Doctoral Research Visit

Context

Within the framework of a partnership (you can choose between)
- PEPR FOUNDRY (founded by ANR): a collaborative project on robust AI involving different research teams in France

Is regular travel foreseen for this post? The candidate will participate to some projects meeting in France and will be encouraged to present his or her work at international machine learning conferences. Travel expenses will be covered by the project.

Assignment

Assignments:
The recruited person will perform research on bandits algorithms in the Inria team Scoul, focusing mainly on the research project described here: https://emiliekaufmann.github.io/post-doc-FOUNDRY.pdf.

Collaboration: The recruited person will be advised by Emilie Kaufmann and will be able to collaborate with other members of the team.

Responsibilities:
The person recruited is responsible for advancing the research project described above, and also develop his or her own research directions.

Main activities

Main activities (5 maximum): bibliographic work, developing new bandit algorithms and analyzing them, performing numerical simulations to assess their performance, writing research papers

Additional activities (3 maximum): attending research seminars, presenting research work at international conferences

Skills

Technical skills: a training in mathematics/statistics, prior knowledge of bandits and sequential decision making is a plus

Languages: English

Other valued appreciated: ability to do numerical simulations using e.g. Python or Julia

Benefits package

- 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
Remuneration

2788€ gross/month

General Information

- **Theme/Domain**: Optimization, machine learning and statistical methods
- **Statistics (Big data)** (BAP E)
- **Town/city**: Villeneuve d'Ascq
- **Inria Center**: Centre Inria de l'Université de Lille
- **Starting date**: 2023-04-01
- **Duration of contract**: 2 years
- **Deadline to apply**: 2024-02-08

Contacts

- **Inria Team**: SCOOL
- **Recruiter**: Kaufmann Emilie / emilie.kaufmann@inria.fr

About Inria

Inria is the French national research institute dedicated to digital science and technology. It employs 2,600 people. Its 200 agile project teams, generally run jointly with academic partners, include more than 3,500 scientists and engineers working to meet the challenges of digital technology, often at the interface with other disciplines. The Institute also employs numerous talents in over forty different professions. 900 research support staff contribute to the preparation and development of scientific and entrepreneurial projects that have a worldwide impact.

The keys to success

The collaborator we want to hire is an autonomous researcher with a good background in machine learning and mathematics, eager to learn new things and to contribute to the research project.

**Warning**: you must enter your e-mail address in order to save your application to Inria. Applications must be submitted online on the Inria website. Processing of applications sent from other channels is not guaranteed.

Instruction to apply

CV+cover letter

Defence Security:
This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorisation to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.

Recruitment Policy:
As part of its diversity policy, all Inria positions are accessible to people with disabilities.