Job posting

Type of position
☒ scientific
☐ administrative

Target group
☐ graduates
☐ post docs
☐ other

Title
Multiple positions for Early Stage Researchers in Marie Sklodowska-Curie ITN "REMARO-Reliable AI for Marine Robotics" www.remaro.eu

Institution
The REMARO ITN is a consortium of recognized submarine AI experts, software reliability experts, and a marine safety certification agency created to educate 15 ESRs able to realize the vision of reliable autonomy for underwater applications. The network includes 11 beneficiaries and 3 partners in Germany, the Netherlands, Portugal, Denmark and Norway.

Position
REMARO seeks candidates for 15 PhD positions that will work together on more reliable AI for marine robotics (vision, navigation, perception, planning, failure recovery, testing, verification, model-checking, model-driven engineering). There are 15 different research projects available with different prerequisites and focus, located in Copenhagen, Oslo, Porto, Bremen, Aachen, and Delft. For details on the different positions please check out https://remaro.eu/index.php/positions/

Responsibilities
If you are interested in Robotics AI, the following research areas are for you:

- Cognitive mission planning (Positions #6, #8)
- Knowledge service (digital twin) for submarine inspection (Positions #10, #11)
- Vision-based and sonar-based localization and navigation (Positions #2, #3, #6)
- Machine learning for perception and vision (Positions #1, #2, #3)

If you are interested in Software Engineering, Formal Methods, Testing or Verification consider the following research areas:

- Probabilistic model-checking, and verification for planning (Positions #9, #13, #14)
- Continuous Quality Assurance (devops) for controllers with dynamic knowledge (Positions #8, #15)
- Probabilistic testing, model-based testing, and property-based testing for AI controlled systems (Positions #4, #7, #12)
- System-level safety analysis for robotics and AI (Position #5, #8, #9)
Requirements

- **Degree**: Master's degree or equivalent providing access to PhD programs. Degrees in computer science, informatics, mechanical/electrical engineering, physics, mathematics, or in a closely related area will be considered. Applicants must not hold a doctoral degree.

- **Early Career Stage**: Candidates should be within the first four years (full-time equivalent research experience) of their research career, at the time of start of the contract. This is measured from the date when they obtained the degree which formally entitles them to embark on a doctorate, irrespective of whether a doctorate was envisaged.

- **Mobility**: At the date of recruitment, the researcher must not have resided, or carried out his/her main activity (work, studies, etc.) in the country of the hiring institution for more than 12 months in the 3 years immediately before the recruitment date. This limits for which of the 15 projects you can apply (carefully consider the geographical location of the hosting institution for each project on the website).

- **Application**: Complete and timely submission exclusively via the on-line application system linked below. Documents submitted must be in English. If supporting documents (e.g., letters of academic references and scan of degree qualification) are not in English, they must be submitted together with a translation to English. Please describe here the requirements.

Application procedure (deadline etc.)

Application deadline is January 2, 14:00 CET
Applications must be in English and must be submitted via this link: https://candidate.hrmanger.net/ApplicationForm/SinglePageApplicationForm.aspx?cid=119&departmentId=3439&ProjectId=181220&MediaId=1282

Applications sent through other means or in other languages than English will not be evaluated. Applications sent to potential supervisors via email will not be considered. All documents must be submitted as PDF files. No other file formats are accepted.

Contact

Questions regarding the application procedure can be directed to:
- **Professor Andrzej Wąsowski** (wasowski@itu.dk), coordinator
- **Dr. Mahsa Varshosaz** (mahv@itu.dk), deputy coordinator
- **Kathrin Gramsch** (kagr@itu.dk), project manager
 (administrative questions)