

Post-doctoral Position In Medical Image Processing

Scientific context

The Computer-Assisted Medical Interventions (CAMI) team of the TIMC laboratory (Grenoble, France) is looking for a highly motivated postdoctoral candidate with a strong background in medical image processing (registration and segmentation) and experience in deep learning approaches with a focus on ultrasound imaging.

The candidate will work on the development of a multimodal deep learning registration method between preoperative 3D MR images and intraoperative 3D transrectal ultrasound images. This method should be able to provide a deformation field to link the two images. The candidate will be expected to publish his/her research in leading international journals and conferences in the field, participate in the supervision of PhD students and contribute to the collaborative projects within the laboratory.

The TIMC laboratory is located minutes away from the Grenoble University Hospital, allowing for a close and effective collaboration with clinical & industrial partners. Grenoble is a welcoming student city at the heart of the French Alps.

Candidate's profile

This project will require a candidate with experience in:

- Previous experience with image registration algorithms (non-rigid is a plus)
- Advanced Python programming skills (especially with torch / keras packages)
- Good knowledge of the ITK / VTK frameworks
- Good command of English

Contacts

To apply, please send your CV, a cover letter, a sample of recent publications and two references to:

Sandrine VOROS
Chargée de recherche (INSERM)
✉ sandrine.voros@univ-grenoble-alpes.fr

Clément BEITONE
Maître de conférence (UGA)
✉ clement.beitone@univ-grenoble-alpes.fr

Jocelyne TROCCAZ
Directrice de recherche (CNRS)
✉ jocelyne.troccaz@univ-grenoble-alpes.fr

Details

Duration 18 months (as soon as possible from 01/2023)
Compensation The gross monthly salary starts at 2395€ (before payroll and income taxes)
Location Laboratoire TIMC, Pavillon Taillefer, 38706 La Tronche Cedex
Team website <https://www.timc.fr/gmcao>