Fiche de poste : Engineer and project management position in Image Processing at INRIA Bordeaux Sud-Ouest and i2S company, France

Title : Efficient implementation of sparse methods in Image Processing.

Type : Project management, chief engineer.
Location : INRIA Bordeaux Sud-Ouest, FRANCE
Research theme : Image processing
Projet : GEOSTAT (http://geostat.bordeaux.inria.fr/)
Duration : 2 years
Salary : INRIA is a national research center, offering remuneration on equity regulations. Salary is based upon INRIA salary grid.

About INRIA

« Established in 1967, Inria is the only public research body fully dedicated to computational sciences. Combining computer sciences with mathematics, Inria’s 3,500 researchers strive to invent the digital technologies of the future. Educated at leading international universities, they creatively integrate basic research with applied research and dedicate themselves to solving real problems, collaborating with the main players in public and private research in France and abroad and transferring the fruits of their work to innovative companies.

The researchers at Inria published over 4,500 articles in 2013. They are behind over 300 active patents and 120 start-ups. The 172 project teams are distributed in eight research centers located throughout France. »

The project manager will work at INRIA Bordeaux Sud-Ouest in the GEOSTAT team http://geostat.bordeaux.inria.fr/ and in the i2S company (http://www.i2s.fr/). Both are close together, located near Bordeaux, in the South-West of France.

Mission

INRIA Geostat team (http://geostat.bordeaux.inria.fr/) and I2S company (http://www.i2s.fr/) are collaborating starting from 2017, and for a 3 year duration period, in an ambitious project related to the use and direct implementation of sparse methods and non convex optimization for Image Processing. This engineer position consists in by managing a project involving the implementation of non convex optimization and sparse for providing efficient solutions to problems related to denoising, filter parameter learning, and other image processing problems in high resolution dititization of natural colour images.

Description

The candidate will work in close collaboration with research and implementation teams at INRIA and i2S respectively. He/she will supervise the effective implementation of an efficient high-resolution scanning system at i2S copany using the approach described in the following document : https://hal.inria.fr/tel-01239958, which has been published at best internal conferences and journals (ECCV, CVPR, ICIP, SIGGRAPH ASIA, IEEE TIP). The candidate will supervise another engineer at GEOSTAT research team and work in close collaboration with i2S development team. He/she will supervise the implementation (e.g. using GPU) of innovative solutions subject direct computer implementation.
Skills

The applicant must have skills in project management. He/she make specifications, manage the deliverables, manage the implementation in close collaboration with i2S company and must be able to understand image processing concepts. Ability in the implementation of applied mathematics methods will be a definite plus.

Recruitment: The applicant will be offered the possibility of permanent position at i2S upon completion of this contract.

Working environment

The applicant will benefit of outstanding working environment conditions available at INRIA. The INRIA Bordeaux centre is the most recent of INRIA research centres, located on the Bordeaux University campus. The i2S company is close to INRIA.

Supplementary information

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