

Post-doc position (Computer Vision, Pattern Recognition): Content extraction in Document images (Comics, Manga)

27 Août 2021

Catégorie : Post-doctorant

The L3i laboratory has one open post-doc position in computer vision, in the specific field of document image analysis and pattern recognition.

Duration: 24 months

Position available from: October 1st, 2021

Salary: approximately 2100 €/ month (net)

Place: L3i lab, University of La Rochelle, France

Specialty: Computer Science/Image Processing/Document Analysis/Pattern Recognition/Deep Learning

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Position Description

The L3i is a research lab of the University of La Rochelle. La Rochelle is a city in the south west of France on the Atlantic coast and is one of the most attractive and dynamic cities in France. The L3i works since several years on document analysis and has developed a well-known expertise in "Bande dessinée", manga and comics analysis, indexing and understanding.

The work done by the post-doc will be part of the **SAIL** (Sequential Art Image Laboratory) a joint laboratory involving L3i and a private company. The objective is to create innovative tools to index and interact with digital comics. The work will be done in a team of 10 researchers and engineers.

The work entrusted to the recruited person will consist in developing original approaches for extracting relevant information in comics panels in order to understand its content. The team has already developed some methods to extract panels, speech balloons, text, characters (persons), faces. However, the large variability of representation of these elements requires to propose different approaches or strategies. According to the skills and knowledge of the candidate, he/she will be able to work to improve methods dedicated to one of these elements.

Other challenges may also be considered such as :

-Detection and understanding of the scenery (sea, countryside, city, ...)

-Detection and understanding of the context of the scene (battle, discussion, people eating, ...)

-Object detection and recognition (bicycle, car, table, chair, ...)

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Traditional and/or deep learning-based strategies can be studied to achieve these objectives.

Qualifications

Candidates must have a completed PhD and a research experience in image processing and analysis, pattern recognition. Good knowledge and experience in deep learning are also recommended.

General Qualifications

- Good programming skills mastering at least one programming language like Python, Java, C/C++
- Good teamwork skills
- Good writing skills and proficiency in written and spoken English or French

Applications

Candidates should send a CV and a motivation letter to jcburie [at] univ-lr.fr.