Post-doc position, IRIT-Université de Toulouse, France

Job Type: Post doc  
Location: IRIT Laboratory, Toulouse, France,  
Starting date: not latter than january  
Duration: 12 months

Overview of the hosting structure

The STORM research group at IRIT develops its activities in the field of Computer Graphics ; it is composed by 4 permanent researchers, 10 PhD students and postdocs, 2 engineers. From geometric modeling to realistic rendering, the group aims at developing computationally efficient models and tools for digital content creation and edition. STORM is hosted at IRIT (Institut de Recherche en Informatique de Toulouse – Informatics Research Institute of Toulouse), one of the major potential of the French research in computer science, with a workforce of more than 700 members including 272 researchers and teachers 204 PhD students, 50 post-doc and researchers under contract and also 32 engineers and administrative employees.

Project Description

Nicolas Mellado, David Vanderhaeghe and their colleagues published at Siggraph 2017 a method for the constrained exploration of color palettes\(^1\). This postdoctoral project aims at making the published technique available for artistes and general public in various contexts. The main challenges are to provide new exploration tools for color palettes and to specify and extract color palette features.

The recruited post doc will be in charge of conducting the research project, and develop new contributions, with a strong preference for development as an Adobe Illustrator plugin. He or she will be in direct contact with the other researchers of the team on one side and with PhD candidates on the other side.

Education

- PhD in Computer Graphics, Computer Science or Applied Mathematics

Key Qualifications

- Familiarity with vector-graphics software (at least Adobe Illustrator)
- Strong C++ development skills
- Good knowledge on linear algebra, non-linear optimization, color processing
- Strong problem-solving skills
- Must be able to work collaboratively and communicate with researchers and engineers
- English or French language (written and spoken)

\(^1\) [https://www.irit.fr/STORM/site/constrained-palette-space-exploration/]