Gueunet Charles

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I am a 27 years old R&D engineer working in the Scientific Visualization team at Kitware Lyon. I defended my Ph.D in Level-set based Topological Data Analysis in 2019.

Position

Position R&D Engineer, at Kitware Ferburary 2019 — Present LANGUAGES C++, CMake, VTK, Paraview, TTK, OpenMP, Python

Gains Improve code quality, Quickly apprehend a large code base, Reduce technical debt

PUBLICATIONS

Main-Thesis: High Performance Level-set Based Topological Data Analysis

Eurovis 2019: Task-based Augmented Reeb Graphs with Dynamic ST-Trees AUTHOR

> TPDS 2018: Task-based Augmented Contour Trees with Fibonacci Heaps LDAV 2017: Task-based Augmented Merge Trees with Fibonacci Heaps LDAV 2016: Contour Forests: Fast Multi-threaded Augmented Contour Trees

IEEE Vis 2018: Topological Data Analysis Made Easy with the Topology Toolkit Conference on Physical Modeling for Virtual Manufacturing Systems and

Processes 2017: Viscous fingering: A topological visual analytic approach IEEE Vis 2017: The Topology Toolkit [Best Paper Honorable Mention Award] IEEE Vis 2016: Visualizing ensemble of Viscous Fingers [Honorable Mention Award]

EDUCATION

Period 2016 - 2019

Degree Ph.D

Subject

PLACE Sorbonne University (LIP6) and Kitware

Paris, France High Performance Level-set based Topological Data Analysis

HPC, TDA, Article redaction and review process Gains

Period 2010 - 2015

Engineering Diploma in Computer Science (Master degree, 5yrs) Degree

PLACE Pau, France

International School of the Sciences of Data Processing, formation in Cloud Computing, Software development, Algorithmic And management

SKILLS

C, C++, VTK, TTK, OpenMP, MPI, CMake, Python

Tools: GNU/Linux, Git, Paraview, Vim, LATEX French (native), English (865 at TOEIC) Languages:

Interests

Open-source, Videos games IT:

Piano (12 years) Music:

Hobbies: Board and Video games