Clément MOMMESSIN
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26 years old

EDUCATION:

Since 2017   –   Ph. D. in Computer Sciences: Efficient Management of Resources in the Internet of Things – Univ. Grenoble Alpes, CNRS, INRIA, Grenoble INP, LIG, France.

2014 - 2016 – Masters Degree in Informatics (MosIG track), option Parallel, Distributed and Embedded Systems – Univ. Grenoble Alpes and Grenoble INP, France.

2011 - 2014 – Bachelors Degree in Maths and Computer Sciences, 1st and 2nd years in International track – Univ. Grenoble Alpes, France.

2011   – Baccalauréat Scientifique, equivalent A levels, specialized in Mathematics – Chambéry, France.

PROFESSIONAL EXPERIENCES:

January - June 2017 – Research aide contract, Argonne National Laboratory, MCS division
~> Development of a feature for automatic data filtering for in situ High Performance Computing workflows
~> Writing and submission of a scientific paper (IEEE Cluster 2017)

October - December 2016 – Fixed-term contract, INRIA Grenoble, team DATAMOVE
~> Scheduling on heterogeneous platforms for High Performance Computing
~> Writing and submission of a scientific paper (EuroPar 2017)

End of Masters Internship 2016 – Scheduling on heterogeneous platforms for High Performance Computing, INRIA Grenoble, team DATAMOVE.
~> Study and design of approximation algorithms for scheduling applications on parallel and hybrid platforms.
~> Construction of a benchmark for the comparison of approximation algorithms.

LANGUAGES AND COMPUTER SCIENCES:

French: mother tongue; English: fluent; Spanish: basic knowledge.
Programming languages: C/C++, Python, R, Java, Matlab, Ada, OCaml.

MISCELLANEOUS:

Reading novels, playing mathematical games, doing and solving puzzles.
Sports: Cycling, hiking, playing tennis.
Dance: Rock, Lindy Hop, Charleston.

TEACHING:

2019   –   IUT 2, Univ. Grenoble Alpes, France (24h)
           ~> C*omputer Architecture and Assembly*, tutorials/practicals, undergraduate, 24h.

2017 - 2019 –   IUT 1, Univ. Grenoble Alpes, France (104h)
           ~> *Algorithmic and Programming*, tutorials/practicals, undergraduate, 60h.
           ~> *Algorithmic and Web Development*, tutorials/practicals, undergraduate, 44h.

STUDENT SUPERVISION:

2019   – Andrei Anderson, *Job Allocation in a Distributed Private Cloud*, M.Sc student,
          MoSIG, Univ. Grenoble Alpes, France.
          Co-supervision with Denis Trystram.

2019   – Aleksandr Danilin, *Resource Availability Prediction in a Distributed Private Cloud*,
          M.Sc student, MoSIG, Univ. Grenoble Alpes, France.
          Co-supervision with Denis Trystram.

2018   – Ning Tang, *Big Data Driven Temperature Control of Intelligent Heaters*,
          M.Sc student, MoSIG, Univ. Grenoble Alpes, France.
          Co-supervision with Danilo Carastan-Santos, Giorgio Lucarelli and Denis Trystram.

PUBLICATIONS:

Marcos Amaris, Giorgio Lucarelli, Clément Mommessin, Denis Trystram. "*Generic Algorithms for Scheduling Applications on Heterogeneous Platforms*". Concurrency and Computation: Practice and Experience, to appear.

Marcos Amaris, Giorgio Lucarelli, Clément Mommessin, Denis Trystram. "*Generic Algorithms for Scheduling Applications on Hybrid Multi-Core Machines*". In Euro-Par, pages 220-231, Sept. 2017.

Clément Mommessin, Matthieu Dreher, Bruno Raffin, Tom Peterka. "*Automatic Data Filtering for In Situ Workflows*". In IEEE Cluster, pages 370-378, Aug. 2017.