

Mohamed Zenadi

BIO November 12th, 1987 Algerian

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INFORMATION ENSEEIHT
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RESEARCH INTERESTS Linear algebra, scientific computing and high performance computing.

EDUCATION **IRIT - ENSEEIHT**, Toulouse, France

PhD in Applied Mathematics and High Performance Computing **Oct. 2010 – Dec. 2013**

- Worked on a distributed hybrid solver for large sparse linear systems
- Gave many talks about it (see 2nd page)
- Resulted in a software package (ABCD Solver) to be distributed in 2014 in a public domain licence

Université Paul Sabatier, Toulouse, France

Master of research in Computer Science **Sept. 2009 - Jun. 2010**

Université Houari Boumediene, Alger, Algeria

Computer Engineering **Sept. 2004 - Jun. 2009**

WHAT I KNOW

- **C++**, used it to write the ABCD Solver, and still learning it
- **C** and using it for system programming (process management, pipes etc.), I taught it during three years to software engineering students
- **Fortran**, used it to maintain a research project and I taught how to use it for scientific computing
- I taught also **Matlab** for scientific computing
- I trained teachers to use **Numpy** and **Scipy** for scientific computing
- I heavily use **MPI** in my code and enjoy debugging parallel code
- I enjoy my week-ends by writing **HTML5/CSS/JS** code and writing web scrappers using **Python**
- Everything I do is maintained using **Git**

LANGUAGES **Arabic** : Mother tongue
French : Fluent
English : Fluent, TOEFL (600/670pts PBT, 2009)

Tony Drummond, Iain S. Duff, Ronan Guivarch, Daniel Ruiz, Mohamed Zenadi, **"Partitioning Strategies for the Block Cimmino algorithm"** (regular paper), Revision submitted to *Journal of Engineering Mathematics*, 2014.

Iain S. Duff, Ronan Guivarch, Daniel Ruiz, Mohamed Zenadi, **"Improvements to the Augmented Block Cimmino Distributed Method"** (conference). In *International Conference On Preconditioning Techniques For Scientific And Industrial Applications, Preconditioning 2013*, Oxford, UK, 2013.

Iain S. Duff, Ronan Guivarch, Daniel Ruiz, Mohamed Zenadi, **"The Augmented Block Cimmino Distributed Method"** (conference). In *SIAM Conference on Applied Linear Algebra, Valencia, Spain, 18/06/2012-22/06/2012*.

Tony Drummond, Iain S. Duff, Ronan Guivarch, Daniel Ruiz, Mohamed Zenadi, **"Partitioning Strategies for the Block Cimmino algorithm"** (conference), In *International Conference On Preconditioning Techniques For Scientific And Industrial Applications, Preconditioning 2011*, Bordeaux, France, 2011.

Ronan Guivarch, Alexandre Silva Lopes, Daniel Ruiz, Mohamed Zenadi, **"3D CFD Simulation Using a Parallel Hybrid Approach of the Block Cimmino Iterative Method"** (conference), In *Sparse Days Workshop at CERFACS, Toulouse, France, 2010*.

Carlos Balsa, Ronan Guivarch, Daniel Ruiz, Mohamed Zenadi, **"An Hybrid Approach for the Parallelization of a Block Iterative Algorithm"**, In *International Conference on Vector and Parallel Processing (VECPAR 2010)*, Berkeley, 22/06/2010-25/06/2010, Springer-Verlag, p. 116-128, 2010.