



# Publications

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## Publications in referred journals :

- *Numerical experience with a recursive trust-region method for multilevel nonlinear optimization*, S. Gratton, M. Mouffe, A. Sartenaer, Ph. L. Toint, D. Tomanos, OPTIMIZATION METHODS AND SOFTWARE, 2009. A paraitre.
- *A retrospective trust-region method for unconstrained optimization*, F. Bastin, V. Malmédy, M. Mouffe, Ph. L. Toint, D. Tomanos, MATHEMATICAL PROGRAMMING, 2009. A paraitre.
- *A recursive  $\ell_\infty$ -trust-region method for bound-constrained nonlinear optimization*, S. Gratton, M. Mouffe, Ph. L. Toint, M. Weber-Mendonça, IMA JOURNAL OF NUMERICAL ANALYSIS, 2008, 28(4):827-861.

## Thesis publications :

- *Multilevel optimization in infinity norm and associated stopping criteria*, M. Mouffe, CERFACS AND FUNDP UNIVERSITY OF NAMUR, 2009, PhD thesis.
- *Etude des méthodes multigrilles pour la résolution de systèmes linéaires*, M. Mouffe, FUNDP UNIVERSITY OF NAMUR, 2005, Master thesis.

## In preparation :

- *New perspectives on criticality measure for bound-constrained optimization using backward error analysis*, S. Gratton, M. Mouffe, Ph. L. Toint.

# Activities

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## Contributed talks :

- Optimization Days (Montreal, Canada, 2009). *Multilevel trust-region method in infinity-norm for bound-constrained optimization.*
- SIAM Conference on Optimization (Boston, USA, 2008). *Numerical results with a multilevel trust-region method in infinity norm.*
- Gene Around the World at CERFACS (Toulouse, France, 2008). *Multigrid techniques applied in an optimization context.*
- SparseDays (Toulouse, France, 2007). *Integration of bound constraints in a recursive multilevel trust-region algorithm.*
- Second Mathematical Programming Society International Conference on Continuous Optimization : ICCOPT-MOPTA (Hamilton, Canada, 2007). *Multilevel infinity-norm trust-region method for bound-constrained optimization.*
- EUROPT-OMS Meeting (Prague, Czech Republic, 2007). *Active constraints identification in the context of multilevel trust-region methods for nonlinear bound constrained optimization problems.*
- 13th Han-sur-Lesse Conference on Mathematical Programming (Han-sur-Lesse, Belgium, 2006). *Use of multi-level trust-region techniques for nonlinear bound constrained optimization problems.*

## Without communication :

- LMS Durham Symposium CLAPDE (Durham, UK, 2008).

# Language skills

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French	Native
English	Fluent (TOEFL IBT score : 109/120, 20-sep-2008)
Dutch	Basic knowledge

# Miscellaneous

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Excellence degree in Declamation (2001)  
Excellence degree en Music Theory (1997)