

Bernabé Dorronsoro

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- Computer Science, University of Málaga, Spain
- PhD in Computer Science, University of Málaga, Spain
 - Title: *Design and Implementation of Cellular Genetic Algorithms for Complex Problems*, 2007.
 - Supervised by:
Prof. Enrique Alba
- Post-Doc
University of Luxembourg
Sept. 2007 - Aug. 2010
- Post-Doc
Interdisciplinary Centre
for Reliability, Security,
and Trust
Sept. 2010 - now



Research Interests

- **Population based** evolutionary algorithms (GAs, DE, ...)
 - **Static** topologies
 - Cellular, islands, small-world, random, hierarchical, ...
 - **Dynamic** topologies
 - Coalitions
 - **Self-adaptive**
 - **Parallel**
- **Domains**
 - Multi-objective, single-objective
 - Continuous, discrete domains
- **Applications**
 - MANETs & VANETs: optimal protocol configuration
 - Scheduling: Robustness, energy efficiency
 - ...

Currently

- **GreenIT** project: Energy efficiency in large computer systems
 - Energy efficient schedulers: computation and communications
 - Robust scheduling
- The **University of Sydney**
 - Scheduling a large number of applications on a number of clusters minimizing makespan, energy consumption, and penalty costs
- **Luxembourg Centre for Systems Biomedicine**
 - Annotation of uncategorized genes
- **University of Málaga**
 - Parallel Cooperative Coevolutionary Multi-objective Algorithms
 - SELF
- Design of new **efficient algorithms**
 - Cellular EAs with no additional parameters
 - Differential Evolution: new operators and population topologies
 - Heterogeneous algorithms
 - Massively parallel algorithms on GPU