

CARMEN GERVET

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Prof GERVET Carmen is a computer scientist specialized in optimization and decision aid under uncertainty. She is currently professor at the university of Montpellier, France, and responsible for the Master of Geomatics, and adjoint director of the UMR ESPACE-DEV. She is also vice-president of the recruiting scientific commission of researchers "data and models" for IRD. Her research interest focus on the modelling of complex combinatorial problem using Artificial intelligence methods such as constraint-based reasoning and operations research techniques. She develops new methodologies of iterative development to tackle real-world problems and hybrid methods including regression analysis to reason with data uncertainty specified as data intervals in robust optimization. She has worked on renewable energy applications in developing countries and is currently working on projects for the spatio-temporal analysis in environmental health science. She is the recipient of a Marie Curie CIG (Career Integration Grant) award, and was the recipient of a UK Global Research award by the Royal Academy of Engineering, which supported a sabbatical year at Brown University (USA) in 2006. She was also the recipient of 2 grants from the Egyptian government and Hubert Curien Partnership in France to carry out joint research on energy planning and uncertainty management.

Main publications linked with the BONDS proposal

C.Gervet and S. Galichet, *Uncertain Data Dependency Constraints in Matrix Models*, CPAIOR, 2015.

C.Gervet and S. Galichet, *On Combining Regression Analysis and Constraint Programming*, IPMU, International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, 2014.

C.Gervet and M. Atef, *Optimal Allocation of Renewable Energy Parks: A Two-stage Optimization Model*. RAIRO-Operations Research journal, 47 (2), 125-150, 2013

N. Yorke-Smith and C. Gervet. *Certainty Closure: Reliable Constraint Reasoning with Uncertain Data*, ACM Transactions on Computational Logic, vol 10(1):3:1-41, 2009

Coordination of scientific Projects linked with the BONDS proposal

2013-2015 **Marie Curie, CIG award** (Career Integration Grant),

2010-2012 **STDF grant award (PI)** Egyptian government research grant, 464.571 EGP

2005-2006 **Royal Academy of Engineering, Global Research Award (PI)**, £35.000

2000-2003 **EPSRC, UK government research grant award (PI)**, £108,200.