

Lorenzo Stella

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Professional Experience

Feb 2013 – now	Ph.D. student at IMT Lucca (Italy) and KU Leuven (Belgium). Nonsmooth optimization algorithms, applications to optimal control, distributed optimization, large-scale machine learning, image processing.
2011 – 2012	Research Analyst at COSBI, Trento (Italy). Analysis and simulation of stochastic models in systems biology. Development of tools for stochastic simulation and network analysis in C#, PYTHON and MATLAB languages.

Education

2008 – 2011	M.Sc. in Computer Science, University of Florence. Final grade: 110/110 cum laude. Analysis of numerical methods for ODEs with respect to the conservation of energy in Hamiltonian systems. Implementation in C.
2004 – 2008	B.Sc. in Computer Science, University of Florence. Final grade: 110/110. Study of the <i>random surfer</i> model of Google's PageRank and algorithms for computing its stationary point. Experimental results obtained with MATLAB.

Software projects

ForBES	MATLAB solver for nonsmooth optimization, contains a library of mathematical functions to formulate problems arising in control, machine learning, image and signal processing. Web page: kul-forbes.github.io/ForBES
libForBES	C++ framework for modeling and solving large-scale nonsmooth optimization problems, allows to interface many high-level languages (including R, PYTHON, JULIA) to a unique solver capable of addressing nonsmooth problems from several application fields. Web page: kul-forbes.github.io/libForBES
libLBFGS	C library providing the structures and routines to implement the limited-memory BFGS algorithm (L-BFGS) for large-scale smooth unconstrained optimization. Contains a MEX interface to MATLAB. Web page: github.com/lostella/libLBFGS

Programming skills

Proficient	C, MATLAB, PYTHON, JULIA, JAVA, C++
Familiar	C#, HASKELL

Languages

English	Native
Italian	Native