

LUIGI PODERICO

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<http://www.poderico.it>

Curriculum Vitae

General information

Birth	8 October 1970, Caserta (Italy)
Marital status	Married
Nationality	Italian

Education

1988	High school diploma with ranks 60/60.
1994	Degree in Computer Science awarded at Università degli Studi di Pisa with ranks 109/110.

Work experience

Activities regarding operational research.

1994	Degree thesis title: "Optimal layout of convex polygons", referees Prof. G.Gallo, Prof. M.Pappalardo. The thesis contents concerns the surface minimization needed to envelope a set of convex polygons.
1995	Collaboration with the Agrarian Economics Dept. of Università di Pisa to develop a Montecarlo method calculating sub-optimal solution of a linear programming problem.
1996	Collaboration with the Agrarian Economics Dept. of Università di Pisa, to develop a software helping in building a class of linear programming problem used for compute the optimal mix for cows feeding.
1996-1998	As employee of firm MAIOR s.r.l. in Lucca, maintenance of a highly sophisticated software to compute the bus drivers scheduling. The mentioned software solve a set partitioning problem using a columns generation process. The firm MAIOR s.r.l. is the Italian leader provider of management and optimization software for public transportation companies.
1999-2000	Collaboration with Computer Science Dept. of Università di Pisa to develop a software library solving the constrained set partitioning problem with a column generation technique. To solve the relaxation of the master problem was used bundle-type algorithm and CPLEX.
2001	Collaboration with Computer Science Dept. of Università di Pisa to redesign and develop a framework for non differentiable optimization.

- 2001 Collaboration with Electronic and Information Engineering Dept. of Università di Perugia to develop an algorithm solving the cutting and stock problem.
- 2002 Within a CNR project and in collaboration with Computer Science Dept. of Università di Pisa, design and implementation of hydro-thermal unit commitment problem solver and energy market price previsioning.
- 2005 Design and implementation of a software for the optimal routing of the international telephonic traffic.

Other activities in computer science

- 1998 Porting from Macintosh to Windows environment of a sophisticated software for bus driver rosters management and optimization.
- 1999 Design and implementation of an Oracle data base, supporting the bus driver rosters management.
- 2000 Porting from Macintosh to Windows environment of a sophisticated software for bus driver scheduling management.
- 2001-2002 Maintenance of the Oracle data base supporting the bus driver rosters management.
- 2003 Design and implementation of a software system for the elaboration and data mining of gas turbine data base.
- 2004-2005 As MBI srl employ, full design of a software system for idro-thermal unit commitment and energy market price previsioning. Team- leader of software development team.

Other information

- Actual employ Software development CTO in MBI srl. (www.mbigroup.it).
- Currently used programming language c++, python.
- Developing environment Visual c++ with MFC; CodeWarrior with Power Plant e MacApp; Delphi; KDevolf with gcc; Visual Basic and Visual Basic .NET; wxWidget.
- Design environment Enterprise Architect.

Various

- Known language Italian-speaking, good technical English and quite good English-speaking.

Cascina, 23 September 2005