

Company Overview

xeraina GmbH Dr. Christoph Stamm Fax: +41 1 281 34 33 Steinhaldenstrasse 42 E-mail: info@xeraina.ch 8002 Zürich

Fon: +41 1 281 34 33 Web: http://www.xeraina.ch



			Clients	
Competence				Client profile
	xeraina GmbH is an ETH spin-off company with services and product offerings centered around the core competence of state-of-the- art algorithmic design.			Our clients represent a great variety with re- spect to industries and company sizes. Algo- rithmic expertise is particularly crucial in • transportation and logistics, • engineering, • manufacturing,
	Algorithms design and implementation	Consulting		software development,
	Algorithms are the building blocks of any	The fast pace of business requires companies		 telecommunications, financial services and government.
	software. Finding the shortest path in a transportation network, computing optimum resource allocation in the airline business, simulating wave popagation in radio net- works are only a few examples that require efficient algorithmic solutions. Computation times — seconds vs. weeks — are deter- mined by the choice and implementation of the algorithm.	to adapt to changes in their environments by improving processes and operations. Setting up a product distribution network in a new market, building a a new radio antenna net- work, or computing optimum train schedules are all computationally intense and algorith- mically challenging problems that often do not occur in frequencies that would justify major investments in high-end hard- and software to tackle them.		Our clients range from consultancies to mid- sized enterprises to blue chip companies.
	Up-to-date expertise in current algorithmic research is necessary to find and implement the best algorithms for most problems. Ac- tive ties to academia enable xeraina to re- main at the forefront of commercial software development. xeraina algorithms are de- signed to find solutions fast and efficiently.	xeraina has the expertise to solve these problems and others. xeraina's consultants either help our clients' application develop- ers in the design of the algorithmic core of the solution or implement the solution themselves.		
	signed to find solutions last and enciently.	themselves.	Profile	Facts
Products				Founded in 2000 by Dr. C. Stamm and partners ETH gain off company
RADIO	• RA ₃ DIO: Radio Antenna Placement with 3D Interactive Optimization — software tool			 ETH spin-off company Incorporated in Zürich, Switzerland
	UPAL: Optimization software for the rolling stock rostering problem.		1188 1134 23	Partners
	• PGF: New, outstanding still image file format with lossless and lossy compression.			 ETH Zurich, Institute of Theoretical Computer Science Swiss Federal Office of Topography



Algorithmic expertise

xeraina's algorithmic expertise covers most areas of algorithms, among others:Combinatorial optimization

- Approximation algorithms
- Mathematical programming
- Linear and nonlinear optimization
- Graph and network algorithms
- Network optimization
- Computational Geometry
- Computer graphics
- Pattern matching

Business proposition

We substantially increase the computational efficiency of our clients by providing robust, state-of-the art services and products that incorporate our expertise in algorithm design. We leverage our outstanding expertise and our excellent ties to the research community to the full benefit of our clients.

www.xeraina.ch

info@xeraina.ch