

algorithmica technologies GmbH

sapere aude - "dare to think"

algorithmica
technologies

WHO WE ARE:

AT is an SME founded by Dr. Patrick Bangert in 2005. It resides in Bremen, Germany with regional offices in Dortmund, Los Angeles (USA), Kosice (Slovakia), Herzliya (Israel).

AT develops timely solutions to real problems on the basis of state-of-the-art computational methods. We are specialists for optimization, algorithms and scientific computing. Our solutions are more than academic superlatives: they are practically implementable and immediately save costs, effort, material, personnel. With contacts to academic research we use the latest techniques for our projects.

COLLABORATION INTERESTS:

Participation in EU projects under FP7

Potential Role:

- Requirement Analysis
- Development
- Integration

AREAS FOR R&D COLLABORATION:

- Cognitive Systems and Robotics
- Software and Services
- Information Processing
- Technologies for Trust and Security
- Future and Emerging Technologies

MAIN ACHIEVEMENTS:

AT develops its own products, which illustrate the range of our expertise, such as:

Datanator™ - autonomous state-of-the-art data-mining tool for business environment.

Neuronator™ - a neural network toolbox containing diverse algorithms for pattern analysis.

Fluidator™ - gridless particle-based fluid flow simulation tool.

Bodinator™ - innovative particle simulation tool.

Randomator™ - advanced random number generator and distribution analysis tool.

REFERENCE PROJECTS:

Besides fluid simulation and development of CAE-processes in the field of automotive research (Volkswagen), a turbojet-engine simulation was successfully engineered for the Ariane Program (EADS).

A prognosis of chemical reactor behaviour based on PIMS data was developed for EVONIK degussa AG.

For Tchibo direct GmbH customers groups were generated through data-mining procedures.

AT performed detailed data analysis for the VHV-Versicherungen.

A fully automated recognition of outliers was developed for TUI AG.



Among earlier projects was the design of automatic real-time image processing algorithms for NASA used to locate magnetic neutral zones on the solar surface, as well as the development of prediction systems for space weather and coronal mass ejections.

For the Los Alamos National Laboratory AT succeeded in designing an optimal geometry and material for an ultra-cold neutron container.

WHAT MAKES US A GOOD PARTNER:

- **Competence:** We have significant experience with optimization projects of all types for clients from many different business areas and countries.
- **Practicality:** We use state-of-the-art research results and technologies. Our solutions are more than academic superlatives; they are practically implementable and immediately save you costs, effort, material or personnel.
- **Innovation:** We have good contacts to academic research, so that we are able to use the latest techniques for our projects.

OTHER INFORMATION:

Organisation type: SME

Country: Germany with R&D offices worldwide

Number of researchers: 15

Number of employees in total: 20

Working languages: English, German

Contact persons:

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For further information please visit: www.algorithmica-technologies.de

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