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Success in life can very much depend on how fast and successful an event can be predicted. Estimating the future behavior of systems or customers is in some cases a key to success. Development in the area of prediction is one pillar our investigations. Research in to the simulating of models on how epidemic diseases can spread in collaboration with the Robert Koch Institute is only one further sample. The ability to estimate which computer user is working at the terminal based on only 3 mouse clicks as well as research into user/customer behaviors also covered. Today, the creation of predictions has extended its presence into the telecommunication industry and their saturated markets. Here the churn prediction of single customers and their customer behavior is important.

Compared with prediction and simulation research, results for industry use can be offered as well for load balancing and grid computing. In cooperation with Airbus, the simulations of large and extensive calculations were distributed over a wide range of resources in order to fulfill the demands for security issues and a required self-organization of applications.

The core research is based on communication and information distribution within networks. Today's world offers different communication channels (wired, mobile, WLAN,...) that make information available and the service context location independent for different users. The stability, the optimal use for users and also the security issues of such complex systems are important and tightly connected to the centre of the research. Decentralized, distributed methods and self-organization with automatic adaptation are being investigated and solutions offered that can actually be used.

The prime difference is the solution-oriented research with a view to enabling a direct industrial implementation. Successful implementation of load balancing with simulations for Airbus and prediction methods developed together with the Robert Koch Institute for epidemic research. Are just a few examples of approaches that could be transformed to the worlds of telecommunication (as been started) and banking, manufacturing industry. The knowledge is to develop stable methods for prediction that are applied to any market in order to minimize the risk and to increase the success for a company. Beside that also Business Intelligent is getting into the focus of the research that is the next closest step to the simulation on business values.

Prof Dr. Unger has more than 17 years of research experience in these areas with a wide range of knowledge and an overview of the current research. Combined with an understanding of the demands in industry and the ability to supply educational training creates a unique offering.

This excellent knowledge is available to support your company in creating success. Feel free to contact him and discuss possible solutions for your company

- Prediction
- Simulation
- Load balancing/Grid
- Training
- BI activities
- Communication, Information Management in Networks and Supply chain Management

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