

Prof. Dr. Stefan Voß



■ COORDINATES

Chair and Director of the Institute of Information Systems within the Faculty of Economics and Social Sciences at the University of Hamburg (since 2002)

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■ BACKGROUND

Prof. Voß holds degrees in Mathematics (diploma) and Economics from the University of Hamburg and a Ph.D. and the habilitation from the University of Technology Darmstadt. Previous positions include full professor and head of the department of Business Administration, Information Systems and Information Management at the University of Technology Braunschweig (Germany), 1995-2002.

■ TEACHING

The Institute's university coursework focuses on all levels of students from business administration, economics, mathematics, computer science, and industrial engineering. Besides Introduction to Information Systems, courses deepen the information systems education with classical as well as modern topics as well as project management, planning, and decision analysis. The goal of the education is to develop the ability to analytically work through complex interrelations in

appropriate areas, and skills to generate creative solution approaches through sound methodological knowledge.

■ RESEARCH

The main focus of Prof. Voß' interests is located in the fields of Information Systems, Supply Chain Management and Logistics as well as Intelligent Search. He has an international reputation as a result of numerous publications in these fields.

Current research projects are, among others, considering problem formulations in the field of Information Systems in Transport, Supply Chain Management as well as Meta-Heuristics and Intelligent Search Algorithms in practical applications. In various areas the research of Prof. Voß and the members of his institute may be rated as world-class. This includes recent work related to container terminals as well as developments in metaheuristics. Prof. Voß is member of advisory and editorial boards for several academic journals such as *INFORMS Journal on Computing* and *Journal of Heuristics*. He is editor of *Netnomics* and *Public Transport*.

■ FURTHER ACTIVITIES

- Several consulting projects
- Guest professorships (in, e.g., Graz, Austria; Valenciennes, France; Shanghai, China)
- Conference organization (e.g. MIC - Metaheuristics International Conference and LM09 - Logistics Management Conference, Hamburg, 2009).
- Chair of the Telecommunications Section of INFORMS
- Book Series Editor *Operations Research / Computer Science Interfaces* and *Integrated Series in Information Systems IS²* (Springer)

■ MEMBERSHIPS (selection)

- ACM, GI, AMTA, IAME
- INFORMS, GOR, MPS

■ SELECTED PUBLICATIONS

Books (partly in German):

- MATHEURISTICS: Hybridizing Metaheuristics and Mathematical Programming (Ed., with V. Maniezzo and T. Stützle). Springer, Berlin (2009).
- Introduction to Computational Optimization Models for Production Planning in a Supply Chain (with D.L. Woodruff). 2nd ed., Springer, Berlin (2006).
- Optimization Software Class Libraries (with D.L. Woodruff, eds.). Kluwer, Boston (2002).
- Informationsmanagement (with K. Gutenschwager). Springer, Berlin (2001).

In Journals/Collections:

- Design and evaluation of road pricing: State-of-the-art and methodological advances (with T. Tsekeris). *Netnomics* 10 (2009), 5 - 52.
- A reference-model for customer-centric data mining with support vector machines (with S. Lessmann). *European Journal of Operational Research* 199 (2009), 520 - 530.
- Dispatching of an electric monorail system: Applying meta-heuristics to an online pickup and delivery problem (with K. Gutenschwager and C. Niklaus). *Transportation Science* 38 (2004) 434 - 446.
- A super-function based Japanese-Chinese machine translation system for business users (with X. Zhao and F. Ren). *Lecture Notes in Artificial Intelligence* 3265 (2004) 271 - 281.
- Container terminal operation and operations research – A classification and literature review (with D. Steenken and R. Stahlbock). *OR Spectrum* 26 (2004), 3 - 49.
- The pilot method (with C. Duin). *Networks* 34 (1999), 181 - 191.
- The Steiner tree problem with hop constraints. *Annals of Operations Research* 86 (1999), 321 - 345.