

# Martin Grötschel



Holds the Chair for Information Technology at the Institute of Mathematics of TU Berlin and is Vice President of the Konrad-Zuse-Zentrum Berlin (ZIB). From November 2002 till May 2008 he had served as Chair of the DFG Research Center MATHEON “Mathematics for key technologies”, a scientific institution involving about 200 applied mathematicians from the three large Berlin universities and two research institutes. Under his leadership MATHEON has been developed to an international well-known mathematical research center which pushed the role of mathematics in different life areas, influenced the kind of studies in mathematics and enlarged the public interest in this science.

Martin Grötschel’s main areas of mathematical research are mathematics and operations research. His special focus is on the design of practically efficient algorithms for hard combinatorial optimization problems. He has deep interest in (real) applications. He has been working with scientists from other disciplines and, in particular, with engineers and economists from industry to mathematically model challenging problems of their domain of expertise. He has contributed to application areas such as chip design and very large scale integration, production planning and flexible manufacturing, logistics, planning of public transportation systems, and telecommunication. He has also been leading several projects on electronic information and communication.

Before coming to Berlin in 1991, Grötschel was Full Professor of Applied Mathematics at Augsburg University (1982 – 1991) and held several visiting positions abroad. He received a Master’s Degree in Mathematics from Bochum University (1973), a Doctoral Degree (1977) and a Habilitation (1981) from Bonn University.

Grötschel’s scientific achievements were honored with several distinctions including the John von Neumann Theory Prize (2006), the EURO Gold Medal (2004), the Leibniz Prize (1995), the Dantzig Prize (1991), the Beckurts Prize (1990), and the Fulkerson Prize (1982). He is a member of the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW), of the “German Academy of Sciences and Engineering” (acatech), and of the German Academy of Natural Scientists (Leopoldina). He is also a Foreign Associate of the National Academy of Engineering, USA. He received Honorary Doctorates from the University of Karlsruhe (2006) and the Vietnamese Academy of Science and Technology (2007).

Grötschel has written and edited 11 books and published more than 150 scientific papers. He has been on the editorial boards of 13 scientific journals. Since 2008 he is an Honorary Member of the Editorial Board of the journal “Acta Mathematica Vietnamica”.

Martin Grötschel has served the academic community in many administrative functions. He was, e.g., on the Executive Committees of the Mathematical Programming Society (MPS) and of the German Mathematical Society (DMV), and in 1993-1994 DMV’s President. He has been on the Executive Board of BBAW since 2001 and has acted on scientific advisory boards of various organizations and institutions (FWF-Austrian Science Foundation, University of Vienna, Imperial College London, KTH Stockholm, ILOG).

After having served as a member-at-large of the Executive Committee of the International Mathematical Union (IMU) from 1999 to 2006, Martin Grötschel was elected IMU’s Secretary for the period 2007 to 2010.