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Mathematics (Ph.D., University of Frankfurt, Germany, 1955). He has been assistant professor of operations research at the Case Institute of Technology and has directed operations research at the National Cash Register Company. A former technical advisor for IBM in both the United States and Germany, he is currently professor of operations research at the University of Munich.

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Industrial economics and electrical engineering (Dipl. Wirtsch. Ing., 1968 and Dip. Ing., 1961, Technische Universitaet, Munich, Germany). Prior to joining IBM Germany in 1969, he was an engineer and systems analyst at the Siemens Laboratories. Currently doing systems planning at the Data Processing Headquarters of IBM Germany.

Barry H. Margolin

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Statistics (Ph.D., Harvard University, 1967). Has been Assistant Professor of Statistics at Yale University since 1967, during which time his research interests have focused on design of experiments and data analysis. During the academic year 1969-70, he was visiting consultant at the Cambridge Scientific Center.

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Mechanical engineering (Ph.D., Massachusetts Institute of Technology, 1966). Worked on stress analysis techniques for computer-aided design as a research associate at MIT. Joined IBM in 1967 to work on application programming systems. He is currently working on extensions to virtual machine systems and is responsible for the research activity of the system.

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Statistics (Ph.D., Harvard University, 1964). Since joining IBM in 1955, he has worked in various areas of statistical applications and computation including reliability analysis, forecasting, and interactive statistical computation. He was a lecturer on statistics at Harvard during the 1965-66 academic year and a visiting associate professor of statistics at Yale during the 1967-68 academic year. He is currently responsible for operations research activity, which includes system performance modeling and evaluation and development of interactive operations research applications.

Authors

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Civil engineering (Diploma Technische, Universitaet Berlin, Charlottenburg, Germany, 1955). He joined IBM in 1958 as an applied science representative, and is currently responsible for technical support of information systems in the World Trade Corporation headquarters.

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Business administration (B.S., Drexel University, 1948). Prior to joining IBM in 1956, he was data processing manager at the Wayne Pump Company. After holding several positions in systems engineering, he joined the staff of the Advanced Administrative System in 1966 where he designed the data management system and the file organization. Currently responsible for architecture, standards, and systems measurements.