

Authors

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Chemical engineering (Ph.D., Columbia University, 1956). Joined IBM in 1957. Has worked on computer applications in various areas of engineering, operations research, and statistics. He is currently working on system performance evaluation.

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Information science (M.S., University of Chicago, 1968). Joined IBM in 1960 as a systems engineer, and in 1964 became a programming systems representative in the Midwestern Regional Headquarters. From 1965 to 1966 he was a systems programmer in the Systems Development Division where he worked on the FORTRAN H compiler. Has done research on computer networks, and is currently working on an on-line question answering system in the IBM Research Division.

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Statistics (Ph.D., London University, 1962). Performed operations research on air traffic control before joining IBM in 1963. Worked on language development and advanced technology for PL/1. He was project manager for the PL/1 Checkout Compiler. Currently he is working in advanced compiler technology.

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Systems engineering (M.S., Southern Methodist University, 1970). Joined IBM in 1964 as a systems engineer in Fort Worth, Texas working with aerospace installations on the design and installation of on-line systems. Later, he worked on the simulation of automated transit systems. The work leading to this paper began as the result of a research grant carried out at the IBM Cambridge Scientific Center. He is currently working on requirements for the surface transportation industry.

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Mathematics (M.S., Massachusetts Institute of Technology, 1966). Since joining IBM in 1969, he has worked on measurement and improvement of CP-67/CMS and on development of the Decision Tree Graphics System. Currently he is working on development of a performance measurement and analysis package for VM/370.

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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.

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Applied physics (Ph.D., Harvard University, 1964). Joining IBM in 1951, he worked in dynamic analysis and instrumentation and as development engineer. Becoming a member of the Research Division in 1964, he served as Director of the Computing Systems Department and is currently a Sabbatical Staff Member at the IBM Systems Research Institute.