

Stephen M. Robinson

University of Wisconsin
USA



Steve Robinson has had a long and abiding interest in numerical methods for optimization. His contributions to the study of error bounds under data perturbations, and continuity of solution sets under data perturbations have deep implications for stochastic programming problems, and led to his joint work with Roger Wets on stability of two-stage stochastic programs. More recently, Steve has worked on sample path optimization, and applied these methods to decision models arising in manufacturing and military applications. Among his most important practical contributions, Steve has championed the use of stochastic programming in the U.S Department of Defense. His joint paper with Laferriere, which appeared in *Phalanx*, was awarded the 2001 John K. Walker Award in Military OR by that community within INFORMS.

Steve's academic accomplishments have earned him several awards, including the Dantzig Award from SIAM/MPS in 1997, and an honorary doctorate from the University of Zurich, Switzerland.

Steve Robinson has played a leadership role in a variety of arenas. He has served as the Editor of *Math. of Operations Research*, and the Secretary of INFORMS. Steve is a highly decorated veteran and retired as a Colonel in the U.S. Army.

Selected Contributions

- “Bounds for error in the solution set of a perturbed linear program,” *Linear Alg. Appl.* (1973)
- “Computable error bounds for nonlinear programming,” *Math. Prog.* (1973)
- “A characterization of stability in linear programming,” *Oper. Res.* (1977)
- “Stability in two-stage stochastic programming,” (with Roger Wets), *SIAM J. on Control and Opt.* (1987)
- “Analysis of Sample-path Optimization,” *Math. of Oper. Res.* (1996)
- “Scenario analysis in U.S. Army decision-making,” (with Laferriere), *Phalanx* (2000)

