

# John Hooker

**Professor at Carnegie Mellon University**

Pittsburgh, PA, US

John Hooker is a pioneer in the integration of optimization and constraint programming technologies.

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## Biography

John Hooker is University Professor of Operations Research and T. Jerome Holleran Professor of Business Ethics and Social Responsibility at Carnegie Mellon University. He has also held several visiting posts, most recently at the London School of Economics and the State University of Campinas, Brazil. He holds doctoral degrees in philosophy and operations research. Professor Hooker has published over 200 articles, 9 books, and 6 edited volumes in operations research, constraint programming, ethics, cross-cultural management, and music theory. He is a Fellow of the Institute for Operations Research and the Management Sciences (INFORMS), as well as recipient the INFORMS Computing Society Prize and the INFORMS Khachiyan Prize for lifetime achievements in optimization. He has served as chair of the INFORMS Computing Society and in numerous editorial positions. He is equally active in the constraint programming community, where he served on the Executive Committee of the Association for Constraint Programming and received the association's Research Excellence Award. He is a pioneer in the integration of optimization and constraint programming technologies, having written the first book and co-chaired the first conference on the subject. OR/CP integration is now an active research field and provides the basis for leading software packages. Professor Hooker also introduced logic-based Benders decomposition, an optimization method that can reduce solution times by orders of magnitude and has found a wide variety of applications. More recently, he and T. Hadji introduced decision diagrams as an optimization method, and several investigators are now pursuing this line of research. Professor Hooker's interests in business ethics and cross-cultural management are reflected in his books *Business Ethics as Rational Choice*, *Working across Cultures*, *Taking Ethics Seriously*, and *Advanced Introduction to Business Ethics*. He is founding editor-in-chief of the *Journal of Business Ethics Education*, the only academic journal dedicated to teaching business ethics. He has lived and worked in Australia, Brazil, China, Denmark, India, Qatar, Turkey, the United Kingdom, the United States, and Zimbabwe, and has extensive experience in France, Germany, Ireland, Italy, and Mexico. In addition, he has written a number of musical compositions for piano, chamber groups, and chorus.

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## Industry Expertise

Business Services, Management Consulting

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## Areas of Expertise

Operations Research, Constraint Programming, Ethics, Cross-Cultural Management, Music Theory

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## Affiliations

## **Education**

**Vanderbilt University**  
Ph.D. Philosophy

**University of Tennessee**  
Ph.D. Operations Research

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## **Accomplishments**

**Computers and Chemical Engineering Journal - Best Paper Award, Computers and Chemical Engineering**  
2015

**Tepper School - Sustained Teaching Excellence Award**  
2009

**Association for Constraint Programming - Program Chair, Constraint Programming Conference**  
2017

**Tepper School of Business - Gerald L. Thompson Excellence in the Classroom Award**  
2016

**Association for Constraint Programming - Best Paper Award, Constraint Programming Conference**  
2015

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