



Dr. Richard Murray

Professor of Control & Dynamical Systems and Bioengineering

Richard Murray received the B.S. degree in Electrical Engineering from California Institute of Technology in 1985 and the M.S. and Ph.D. degrees in Electrical Engineering and Computer Sciences from the University of California, Berkeley, in 1988 and 1991, respectively. He joined the faculty at Caltech in 1991 in Mechanical Engineering and helped found the Control and Dynamical Systems program in 1993. In 1998-99, Professor Murray took a sabbatical leave and served as the Director of Mechatronic Systems at the United Technologies Research Center in Hartford, CT. Upon returning to Caltech, Murray served as the Division Chair (dean) of Engineering and Applied Science at Caltech from 2000-2005, the Director for Information Science and Technology (IST) from 2006- 2009, and interim Division Chair from 2008-2009. He is currently the Thomas E. and Doris Everhart Professor of Control & Dynamical Systems and Bioengineering at Caltech and the Division Chair for Biology and Biological Engineering (BBE). Murray holds an honorary doctorate from Lund University and is an elected member of the National Academy of Engineering (2013). His research is in the application of feedback and control to networked systems, with applications in biology and autonomy. Current projects include analysis and design biomolecular feedback circuits, synthesis of discrete decision-making protocols for reactive systems, and design of highly resilient architectures for autonomous systems. Murray is a co-author of three textbooks, a co-developer of the Python Control Systems Library (`python-control`), a co-founder of Tierra Biosciences, and a founding member of the Defense Innovation Board (2016-2020).