

IEEE CONTROL SYSTEMS AWARD

RECIPIENTS

- 2022 – DIMITRI P. BERTSEKAS
Professor, School of Computing,
Informatics, and Decision Systems
Engineering, Arizona State
University, Tempe, Arizona, USA
"For fundamental contributions to the methodology of optimization and control of uncertain and large-scale dynamical systems, and their dissemination through outstanding monographs and textbooks."
- 2021 – HIDENORI KIMURA
Vice Director, Systems Innovation
Center, Tokyo, Japan
"For contributions to synthesis theory of control systems and its applications to manufacturing devices and systems."
- 2020 – ANDERS LINDQUIST
Zhiyuan Chair Professor,
Shanghai Jiao Tong University,
Shanghai, China
"For contributions to optimal filtering, stochastic control, stochastic realization theory, and system identification."
- 2019 – PRAMOD KHARGONEKAR
Vice Chancellor for Research and
Distinguished Professor, University
of California, Irvine, California, USA
"For contributions to robust and optimal control theory."
- 2018 - JOHN TSITSIKLIS
Clarence J. Lebel Professor of
Electrical Engineering,
Massachusetts Institute of
Technology, Cambridge,
Massachusetts, USA
"For contributions to the theory and application of optimization in large dynamic and distributed systems."
- 2017 - RICHARD M. MURRAY
Everhart Professor of Control &
Dynamical Systems and
Bioengineering, Caltech, Pasadena,
California, USA
"For contributions to the theory and applications of nonlinear and networked control systems."
- 2016 – ARTHUR J. KRENER
Research Professor, Naval
Postgraduate School, Monterey,
CA, USA
"For contributions to the analysis, control, and estimation of nonlinear control systems."
- 2015 - BRUCE FRANCIS
Professor Emeritus, University of
Toronto, Toronto, Ontario, Canada
"For pioneering contributions to H-infinity, linear-multivariable, and digital control."
- 2014 – TAMER BASAR
Swunlund Endowed Chair and CAS
Professor of Electrical and
Computing Engineering, University
of Illinois, Urbana-Champaign,
Urbana, IL, USA
"For seminal contributions to dynamic games, stochastic and risk-sensitive control, control of networks, and hierarchical decision making."

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| 2013 - STEPHEN P. BOYD
Samsung Professor of Electrical
Engineering, Stanford University,
Palo Alto, CA USA | "For contributions to systems design and
analysis via convex optimization." |
| 2012 - ALBERTO ISIDORI
Professor of Systems and Control,
University of Rome, Sapienza,
Rome, Italy | "For pioneering contributions to nonlinear
control theory." |
| 2011 - EDUARDO D. SONTAG
Professor II of Mathematics,
Rutgers University
Piscataway, NJ USA | "For fundamental contributions to nonlinear
systems theory and nonlinear feedback
control." |
| 2010 - GRAHAM CLIFFORD GOODWIN
Prof & Dir ARC Center of Excellence
in Complex Dynamic Sys & Control
Univ of Newcastle
Callaghan, NSW, Australia | "For contributions to the theory and
practice of digital and adaptive control." |
| 2009 - DAVID Q. MAYNE
Emeritus Professor of Control
Theory and Senior Research Fellow,
Imperial College, London, England | "For contributions to the application of
optimization to modern control theory." |
| 2008 - MATHUKUMALLI VIDYASAGAR
Executive Vice President, Tata
Consultancy Services, Hyderabad,
India | "For promulgation of control science and
engineering and contributions to robust
control, robotics and statistical learning
theory" |
| 2007 - LENNART LJUNG
Professor, Department of Electrical
Engineering, Linkopings
Universitets, Linkoping, Sweden | "For seminal contributions to system
identification and its impact on industrial
practice." |
| 2006 - P.R. Kumar
Franklin W. Woeltge Professor of
Electrical and Computer
Engineering, University of Illinois,
Urbana-Champaign, Urbana, IL | "For contributions to adaptive control,
manufacturing systems and wireless
communications." |
| 2005 - MANFRED MORARI
Professor and Head of Automatic
Control Laboratory, Eth
Zurich, Switzerland | "For pioneering contributions to the theory
and application of robust process, model
predictive, and hybrid systems control." |

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- 2004 – JOHN DOYLE
Professor, Dept of EE
California Inst of Technology
Pasadena, CA USA
"For fundamental contributions to the analysis and control of uncertain systems."
- 2003 - NIKOLAI NICOLAEVICH KRASOVSKI
Principal Researcher,
Professor, Technical University of Ural, Russia
"For pioneering contributions to the theories of stability, control, and differential games."
- 2002 – PRAVIN VARAIYA
University of California at Berkeley
Berkeley, CA USA
"For outstanding contributions to stochastic and adaptive control and the unification of concepts from control and computer science."
- 2001 - KEITH GLOVER
University of Cambridge
Cambridge, UK
"For pioneering and fundamental contributions to robust controller design and model order reduction."
- 2000 – SANJOY K. MITTER
Professor
Massachusetts Institute of Technology (MIT)
Cambridge, MA USA
"For contributions to optimization, optimal control, and nonlinear filtering, and for interdisciplinary research that has expanded the boundaries of control theory."
- 1999 - A. STEPHEN MORSE
Yale University
New Haven, CT USA
"For pioneering the geometric approach to linear multivariable control synthesis and contributions to nonlinear and adaptive control theory."
- 1998 - JAN C. WILLEMS
University of Groningen
Groningen, The Netherlands
"For seminal contributions to control theory and leadership in systems research."
- 1997 - BRIAN D. O. ANDERSON
Australian National University
Canberra, Australia
"For contributions in the areas of adaptive and optimal control, stability, and system identification."
- 1996 - VLADIMIR A. YAKUBOVICH
St. Petersburg University
St. Petersburg, Russia
"For pioneering and fundamental contributions to stability analysis and optimal control."
- 1995 - PETAR V. KOKOTOVIC
University of California
Santa Barbara, CA USA
"For pioneering contributions to singular perturbation theory, adaptive systems, nonlinear controls, and their industrial applications."
- 1994 - ELMER G. GILBERT
University of Michigan
"For pioneering and innovative contributions to linear state space theory"

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- Ann Arbor, MI USA
- 1993 - MOSHE M. ZAKAI
Technion-Israel Institute of
Technology
Haifa, Israel
- 1992 - HAROLD J. KUSHNER
Brown University
Providence, RI USA
- 1991 - ROGER W. BROCKETT
Harvard University
Cambridge, MA USA
- 1990 - KARL JOHAN ÅSTRÖM
Lund University
Lund, Sweden
- 1989 - YU-CHI HO
Harvard University
Cambridge, MA USA
- 1988 - DANTE C. YOULA
Polytechnic Institute of NY
Farmingdale, NY USA
- 1987 - WALTER MURRAY WONHAM
University of Toronto
Ontario, Canada
- 1986 - CHARLES A. DESOER
University of California
Berkeley, CA USA
- 1985 - GEORGE ZAMES
McGill University
Montreal, Canada
- 1984 - ARTHUR E. BRYSON, JR.
Stanford University
Stanford, CA USA
- 1983 - NO AWARD
- and its applications, especially realization and decoupling, as well as to control algorithms."
- "For contributions to non-linear stochastic analysis, and its applications to control systems."
- "For fundamental contributions to stochastic systems theory and its engineering applications."
- "For pioneering and innovative contributions to nonlinear control, stability, robotics and control engineering education."
- "For fundamental contributions in control theory with emphasis on its practical application."
- "For contributions to differential games, multi-person decision making, and discrete event dynamic systems."
- "For original contributions in the areas of circuits, systems and control theory, and the rigorous solution of engineering problems."
- "For pioneering contributions to the theory of stochastic systems, linear multivariable control, and discrete event systems."
- "For fundamental contributions to linear system theory, linear controller design, linear and nonlinear stability analysis, and the role of feedback in nonlinear systems."
- "For contributions to feedback stability theory and linear multivariable control system design."
- "For pioneering contributions to optimal control and estimation and their applications."

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1982 - HOWARD H. ROSENBROCK
University of Manchester
Manchester, England

"For contributions to multivariable control theory and design methods."