



2020



Rufus T. Oldenburger Medal

The Committee on Honors and Awards
of the
Dynamic Systems and Control Division
of the
American Society of Mechanical Engineers
hosts the presentation of the

Rufus T. Oldenburger Medal

to

Mark W. Spong

at the Fifty Third Annual
Dynamic Systems and Control Division
Awards Ceremony

DSCC, October 5th – 7th 2020
Virtual On-Line Conference

**Dynamic Systems and Control Division
2020 Honors and Awards Committee**

Roberto Horowitz, Chair

George Chiu

Kim Stelson

Eric Tseng

Neville Hogan

Tsu-Chin Tsao

Rama Yedavalli

Fifty Third Annual ASME Dynamic Systems and Control Division Awards Ceremony

**October 6th, 2020
Online 11 am – 12:30 pm**

Welcome

Santosh Devasia, DSCD Chair

Presentation of Awards

Roberto Horowitz, DSCD Honors & Awards Committee Chair

DSCD Awards

DSCC Best Student Paper Award
Rudolf Kalman Best Paper Award
Michael J. Rabins Leadership Award
Charles Stark Draper Innovative Practice Award
Henry M. Paynter Outstanding Investigator Award
Nyquist Lecture

2020 Rufus T. Oldenburger Medal & Lecture

“Life in the Underactuated Lane”

Mark W. Spong

Professor, Department of Systems Engineering
University of Texas at Dallas



Rufus T. Oldenburger Medal Recipients

1968	Rufus Oldenburger	1994	Howard H. Rosenbrock
1969	Nathaniel B. Nichols	1995	George Leitmann
1970	John B. Ragazzini	1996	George D. Zames
1971	Charles S. Draper	1997	Thomas B. Sheridan
1972	Albert J. Williams, Jr.	1998	David G. Leunberger
1973	Clesson B. Mason	1999	Yu-Chi Ho
1974	Herbert W. Ziebolz	2000	Ioan Landau
1975	Hendrick W. Bode	2001	No Award
	Harry Nyquist	2002	Masayoshi Tomizuka
1976	Rudolf E. Kalman	2003	Vadim L. Utkin
1977	Gordon S. Brown	2004	Sir Alistair MacFarlane
	Harold L. Hazen	2005	Roger W. Brockett
1978	Yasundo Takahashi	2006	J. Karl Hedrick
1979	Henry M. Paynter	2007	Suguru Arimoto
1980	Arthur E. Bryson, Sr.	2008	A. Galip Ulsoy
1981	Shih-Ying Lee	2009	Neville Hogan
1982	Bernard Friedland	2010	Rolf Isermann
1983	J. Lowen Shearer	2011	Haruhiko H. Asada
1984	Herbert H. Richardson	2012	Mathukumalli Vidyasagar
1985	Karl J. Astrom	2013	Graham C. Goodwin
1986	Eliahu I. Jury	2014	Robert Bitmead
1987	Walter R. Evans	2015	Manfred Morari
1988	Robert H. Cannon	2016	Jean-Jaques Slotine
1989	Iakov Z. Tsytkin	2017	Miroslav Krstic
1990	Harold Chestnut	2018	Roberto Horowitz
1991	John G. Truxal	2019	Huei Peng
1992	Isaac M. Horowitz	2020	Mark W. Spong
1993	Lotfi A. Zadeh		

DSCD Award Recipients

Paynter Outstanding Investigator Award

1996 Masayoshi (Tomi) Tomizuka
1998 Haruhiko (Harry) Asada
2000 Karl Hedrick
2002 Suhada Jayasuriya
2004 A. Galip Ulsoy
2006 Clarence de Silva
2008 Neville Hogan
2010 Roberto Horowitz
2012 Asok Ray
2014 Andrew Alleyne
2016 Miroslav Krstic
2018 Tsu-Chin Tsao
2020 Jeffrey L. Stein

Draper Innovative Practice Award

1996 Davorin D. Hrovat
1998 Daniel E. Whitney
2000 David Auslander
2002 John J. Moskwa
2004 No Award
2006 Suresh Joshi
2008 Steven E. Shladover
2010 Bradley E. Paden
2012 Anthony M. Phillips
2014 Ranjan Mukherjee
2016 Andrew Alleyne
2018 Anna Stefanopoulou
2020 Reza Moheimani

Rabins Leadership Award

1996 Michael J. Rabins
1998 Davendra P. Garg
2000 Masayoshi Tomizuka
2002 A. Galip Ulsoy
2004 Wayne Book
2008 Suhada Jayasuriya
2010 Eduardo A. Misawa
2012 Jeffrey L. Stein
2014 Dawn Tilbury
2016 Huei Peng
2018 Kok-Meng Lee
2020 Jordan Berg

Outstanding Young Investigator Award

1995 Homayoon Kazerooni
1997 Tsu-Chin Tsao
1999 Gary J. Balas
2001 Matt Franchek
2003 Andrew Alleyne
2005 Anna Stefanopoulou
2007 Bin Yao
2009 Douglas Adams
2011 Warren Dixon
2013 Maurizio Porfiri
2015 Rifat Sipahi
2017 Kira Barton
2019 Sandipan Mishra

Kalman Best Paper Award

1981 J Beaman & K Hedrick
1982 S Dubowski
1993 B Paden, D Chen, R Ledesma & E Bayo
1994 TC Tsao & M Tomizuka
1995 T Yoshikawa, Y Yokokohji, T Matsumoto & XZ Zheng

Kalman Best Paper Award (Continued)

1996 M Pelletier
1998 WC Sun & KA Stelson
1999 A Ray, K Youcef-Toumi & T-J Yeh
2000 K Hedrick & PP Yip
2001 Not Given
2002 JW Glass & M Franchek
2003 L-K Chen & AG Ulsoy
2004 QYJ Smithwick, PG Reinhall, J Vagners & EJ Seibel
2005 S Parthasarathy, S Mantell, K Stelson
2006 G Shaver, JC Gerdes, M Roelle, P Caton & C Edwards
2007 E Maslen, D Montie & T Iwasaki
2008 S Savaresi, M Tanelli & C Cantoni
2009 H DeSmidt, K-W Wang & EC Smith
2010 S Jeon, M Tomizuka & T Katou
2011 A Seshadri & PR Pagilla
2012 NM Enache, S Mammarr, B Lusetti & Y Sebsadji
2013 H Ravi, H Liao, A Jungkunz, C Chang, H Song & JC Gerdes
2014 Z Shen & CD Rahn
2015 D Spinello & DJ Stilwell
2016 AG Ulsoy
2017 IL Yeoh, PG Reinhall, MC Berg, HJ Chizeck & EJ Seibel
2018 KV Nielsen, M Blanke, L Eriksson & M Vejlgaard-Laursen
2019 N Virani, DK Jha, Z Yuan, I Shekhawat, A Ray, M Cobb, N Deodhar & C Vermillion
2020 P. M. Sammons, D. A. Bristow & R. G. Landers

Nyquist Lecturer

2005 Karl J. Astrom
2006 George Leitmann
2007 Arthur E. Bryson
2008 Masayoshi Tomizuka
2009 J. Karl Hedrick
2010 Wayne Book
2011 Mathukumalli Vidyasagar
2012 Manfred Morari
2013 A. Galip Ulsoy
2014 Naomi E. Leonard
2015 Miroslav Krstic
2016 Mark Spong
2017 Daniela Rus
2018 Huei Peng
2019 Lucy Pao
2020 Marcia K. O'Malley

Yasundo Takahashi Education Award

1995 David Auslander
1997 David Wormley
1999 Clarence de Silva
2001 David Powell
2003 Dawn Tilbury & William Messner
2005 Michael J. Rabins
2007 Dean Karnopp
2009 Ronald C. Rosenberg
2011 Devendra Garg
2013 No Award
2015 Jacob Apkarian
2017 Andrew Alleyne
2019 Huei Peng