



*The 2009 AACCC Awards Ceremony*

**AMERICAN AUTOMATIC  
CONTROL COUNCIL**

**AIAA, AIChE, AIST, ASCE, ASME, IEEE, ISA, SCS**

2009 American Control Conference

St. Louis, Missouri, USA

June 11, 2009

## **AWARDS PROGRAM**

### **2009 ACC BEST STUDENT-PAPER AWARD**

Finalists and Winner Announced during Awards Ceremony

### **O. HUGO SCHUCK BEST PAPER AWARD**

Robert D. Gregg and Mark W. Spong, "*Reduction-based Control with Application to Three-Dimensional Bipedal Walking Robots*"

K. Stegath, N. Sharma, C. M. Gregory, and W. E. Dixon, "*Nonlinear Tracking Control of a Human Limb via Neuromuscular Electrical Stimulation*"

### **DONALD P. ECKMAN AWARD**

Paulo Tabuada

### **CONTROL ENGINEERING PRACTICE AWARD**

Suresh M. Joshi

### **JOHN R. RAGAZZINI EDUCATION AWARD**

George Stephanopoulos

### **RICHARD E. BELLMAN CONTROL HERITAGE AWARD**

George Leitmann

## PAST RECIPIENTS

### DONALD P. ECKMAN AWARD

1964	Michael Athans	1965	John Bollinger	1966	Roger Bakke
1967	Roger Brockett	1968	Robert E. Larson	1969	W. Harmon Ray
1970	John Seinfeld	1971	Raman Mehra	1972	Cecil L. Smith
1973	Edison Tse	1974	Timothy L. Johnson	1975	Alan S. Willsky
1976	Robert W. Atherton	1977	Nils R. Sandell, Jr.	1978	Narendra K. Gupta
1979	Joe Hong Chow	1980	Manfred Morari	1981	Rajan Suri
1982	Bruce Hajek	1983	John C. Doyle	1984	Mark A. Shayman
1985	P. R. Kumar	1986	Yaman Arkun	1987	R. Shoureshi
1988	Bijoy K. Ghosh	1989	P. P. Khargonekar	1990	Shankar S. Sastry
1991	Carl N. Nett	1992	Stephen P. Boyd	1993	Munther Dahleh
1994	Kameshwar Poolla	1995	Andrew Packard	1996	Jeff S. Shamma
1997	R. M. Murray	1998	I. Kanellakopoulos	1999	Andrew R. Teel
2000	Richard D. Braatz	2001	Dawn M. Tilbury	2002	Ilya Kolmanovsky
2003	Claire Tomlin	2004	P. D. Christofides	2005	Pablo A. Parrilo
2006	Murat Arcak	2007	Daniel Liberzon	2008	Asu Ozdaglar

### CONTROL ENGINEERING PRACTICE AWARD

1998	Charles R. Cutler	1999	Davorin D. Hrovat	2000	Francis G. Shinskey
2001	Warren A. Thompson	2002	Dagfinn Gangssas	2003	Edgar Bristol
2004	William F. Powers	2005	George Meyer	2006	David Bayard
2007	Kevin Wise	2008	Babatunde Ogunnaike		

### JOHN R. RAGAZZINI EDUCATION AWARD

1979	John R. Ragazzini	1980	Michael Athans	1981	Yasundo Takahashi
1982	Arthur E. Bryson, Jr.	1983	Charles A. Desoer	1984	Henry M. Paynter
1985	Gene F. Franklin	1986	Thomas Kailath	1987	George J. Thaler
1988	W. E. Vander Velde	1989	W. Harmon Ray	1990	K. S. Narendra
1991	Michael J. Rabins	1992	Thomas F. Edgar	1993	Dale E. Seborg
1994	No Award	1995	J. Boyd Pearson	1996	D. M. Auslander
1997	William R. Perkins	1998	Peter Dorato	1999	Katsuhiko Ogata
2000	Hassan K. Khalil	2001	Dimitri P. Bertsekas	2002	Robert F. Stengel
2003	Stephen P. Boyd	2004	Mark W. Spong	2005	S. Shankar Sastry
2006	Masayoshi Tomizuka	2007	Manfred Morari	2007	Stephen Yurkovich

### RICHARD E. BELLMAN CONTROL HERITAGE AWARD

1979	Hendrik W. Bode	1980	Nathaniel B. Nichols	1981	Charles S. Draper
1982	Irving Lefkowitz	1983	Richard E. Bellman	1984	John V. Breakwell
1985	Harold Chestnut	1986	John Zaborszky	1987	John Lozier
1988	Walter R. Evans	1989	R. W. Brockett	1990	A. E. Bryson, Jr.
1991	John G. Truxal	1992	Rutherford Aris	1993	Eliahu I. Jury
1994	Jose Cruz, Jr	1995	Michael Athans	1996	E. G. Gilbert
1997	Rudolf E. Kalman	1998	Lotfi A. Zadeh	1999	Yu Chi Ho
2000	W. Harmon Ray	2001	A. V. Balakrishnan	2002	Petar V. Kokotovic
2003	K. S. Narendra	2004	Harold J. Kushner	2005	Gene F. Franklin
2006	Tamer Başar	2007	Sanjoy Mitter	2008	Pravin Varaiya

## **O. HUGO SCHUCK BEST PAPER AWARD RECIPIENTS**

(previous eight years)

- 2001 L. Zaccarian, A. R. Teel, and J. J. Marciniowski, "Anti-Windup for an Active Vibration Isolation Device: Theory and Experiments"  
R. Yedavalli, "A Necessary and Sufficient Extreme Point Solution for Checking Robust Stability of Polytopes of Matrices"
- 2002 J. Mareczek, M. Buss and M. Spong, "Invariance Control of Normal Forms with Input Driven Internal Dynamics"  
B-S. Kim, J. Li and T-C. Tsao, "Control of a Dual Stage Actuator System for Noncircular Cam Turning Process"
- 2003 P. Seiler, A. Pant, and K. Hedrick, "Disturbance propagation in large interconnected systems"
- 2004 Bin Yao, "Integrated Direct/Indirect Adaptive Robust Control of SISO Nonlinear Systems in Semi-Strict Feedback Form"  
Dong Ni, Yiming Lou, Panagiotis D. Christofides, Lin Sha, Sandy Lao, and Jane P. Chang, "A Method for Real-Time Control of Thin Film Composition Using OES and XPS"
- 2005 H.K. Khalil, "Output Feedback Sampled-Data Stabilization of Nonlinear Systems"  
X. Sun, L. Munoz and R. Horowitz, "Mixture Kalman Filter Based Highway Congestion Mode and Vehicle Density Estimator and its Application"
- 2006 S. Dambreville, Y. Rathi, A. Tannenbaum, "Tracking Deformable Objects with Unscented Kalman Filtering and Geometric Active Contours"  
R. Rajamani, D. Piyabongkarn, J.Y. Lew, J.A. Grogg, "Algorithms for Real-Time Estimation of Individual Wheel Tire-Road Friction Coefficients"
- 2007 N.C. Martins and M.A. Dahleh, "Fundamental Limitations of Performance in the Presence of Finite Capacity Feedback"  
T. Keviczky and G.J. Balas, "Flight Test of a Receding Horizon Controller for Autonomous UAV Guidance"
- 2008 Nader Motee and Ali Jadbabaie, "Optimal Control of Spatially Distributed Systems"  
Lin-Shien Fong and Stevan Dujic, "Pacing Real-Time Spatiotemporal Control of Cardiac Alternans"

## **2009 AACC AWARDS COMMITTEE**

*Committee Chair:* Hassan Khalil. *Subcommittee Chairs:* Jeffrey A. Cook, N. Harris McClamroch, Masoud Soroush, Andrew R. Teel, Stephen Yurkovich.