JOÃO P. HESPANHA

EDUCATION

Ph.D., Electrical Engineering, YALE UNIV., New Haven, CT Ph.D. Adviser: Prof. A. Stephen Morse Dissertation Title: Logic-Based Switching Algorithms in Control	1998
Licenciatura, Electrical and Computer Engineering, INSTITUTO SUPERIOR TÉCNICO, Lisbon, Portugal	1991
Teaching Experience	
Professor UNIV. OF CALIFORNIA, Dept. of Electrical and Computer Engineering, Santa Barbara, U	2006– ISA.
Associate Professor UNIV. OF CALIFORNIA, Dept. of Electrical and Computer Engineering, Santa Barbara, U	2002–2006 ISA
Assistant Professor UNIV. OF SOUTHERN CALIFORNIA, Dept. of Electrical Engineering, Los Angeles, USA	1999–2001
Selected University Positions	
Chair Council for Budget and Planning, Univ. of California, Santa Barbara, USA	2018–19
Department Chair DEPT. OF ELECTRICAL AND COMPUTER ENGINEERING, Univ. of California, Santa Barba	2013–2017 ara, USA
Director CENTER FOR CONTROL, DYNAMICAL-SYSTEMS, AND COMPUTATION (CCDC), Univ. o Santa Barbara, USA	2011–2013 of California,
Vice Chair & Graduate Advisor DEPT. OF ELECTRICAL AND COMPUTER ENGINEERING, Univ. of California, Santa Barb	2007–2013 ara, USA
Executive Committee Chair COLLEGE OF ENGINEERING, Univ. of California, Santa Barbara, USA	2004-2006
Awards and Recognitions	
39,046 citations in Google Schoolar and 16,996 citations in the ISI Web of Science, as of June.	2019.

2019 ACM SIGBED Hybrid Systems Computation and Control (HSCC) Best Paper Award.

2016 Int. Federation of Automatic Control Fellow Award with citation "For contributions to the stability theory of switched and hybrid systems and its application to the analysis and design of networked control systems."

2016 Int. Conference on Cyber Physical Systems (ICCPS) Best Paper Award for the paper "SMT-based observer design for cyber-physical systems under sensor attacks"

2016 Power & Energy Society 2012 General Meeting selection for presentation at a Best Conference Paper session for the paper "Distributed Monitoring of Wide-Area Oscillations in the Presence of GPS Spoofing Attacks"

2014 Keynote Speaker at the 2014 IEEE Int. Conf. on Control and Automation (IEEE ICCA), Taichung, Taiwan.

2014 Plenary Speaker at the 1st Multi-symposium on Control Systems (MSCS2014), Tokyo, Japan.

2013 *Plenary Speaker* at the 4th IFAC Workshop on Distributed Estimation and Control in Networked Systems (NECSYS'13).

2012 Keynote Speaker at the 3rd International Workshop on Wireless Networking and Control for Unmanned Autonomous Vehicles (WiAUV'12).

2011 *Plenary Speaker* at the XIV Workshop on Information Processing and Control (RPIC2011), Oro Verde, Argentina.

2010 Semi-plenary Speaker at the 49th IEEE Conference on Decision and Control (CDC'2010).

2010 Keynote Speaker at the 52th Turkish National Symposium on Automatic Control (TOK'2010).

2009 Ruberti Young Researcher Prize with citation "For fundamental contributions to adaptive control and to the theory of switched and hybrid systems."

2009 Semi-plenary Speaker at the Chinese Control and Decision Conference (CCDC), Guilin.

2008 IEEE Fellow with citation "for contributions to stability techniques for switched and hybrid systems."

2007-2013 IEEE Distinguished Lecturer.

2006 George S. Axelby Outstanding Paper Award for the paper "Uniform stability of switched linear systems: extensions of LaSalle's Invariance Principle." *IEEE Trans. on Automat. Contr.*, 49(4):470–482, Apr. 2004.

2005 Best Paper Award at the 2nd Int. Conf. on Intelligent Sensing and Inf. Proc. for the paper "Estimation from relative measurements: Error bounds from electrical analogy," with (P. Barooah), Jan. 2005.

2002-2004 Automatica Theory/Methodology Best Paper Prize for the paper "J. P. Hespanha and A. S. Morse. Switching between stabilizing controllers. Automatica, 38(11), Nov. 2002."

2002 *Plenary Speaker* at the 5th Portuguese Conference on Automatic Control (Controlo 2002), Univ. of Aveiro, September 5, 2002.

2001 National Science Foundation (NSF) Faculty Early Career Development (CAREER) award.

1999 (Fall) USC's Faculty Honor Roll. The faculty honor roll recognizes faculty that obtained exceptional scores in teaching evaluations.

1999 Yale University's Henry Prentiss Becton Graduate Prize for exceptional achievement in research in Engineering and Applied Science for the PhD thesis Logic-Based Switching Algorithms in Control. PhD Thesis, Yale Univ., New Haven, CT, 1998.

Organization of Workshops and Conferences

Co-chair of the 3rd IFAC Workshop on Distributed Estimation and Control in Networked Systems (NEC-SYS'12), Sep. 2012 (with F. Bullo).

Chair of the Ninth Int. Workshop on Hybrid Systems: Computation and Control (HSCC'06), Mar 2006.

Co-organizer of the biannual "Southern California Nonlinear Control Workshop Series," San Diego/Los Angeles/Santa Barbara, June 2001–present (with M. Krstic, R. Murray, C. Panagiotis, and A. Teel).

Organizer and program chair of the Conference "Touch in Virtual Environments," Los Angeles, California, Feb. 2001 (with M. McLaughlin and G. Sukhatme).

Organizer and lecturer at the mini-course on "System Theory on the Eve of the 21st Century" for Arrábida Courses Summer Univ., Arrábida, Portugal, June 1999 (with A. S. Morse).

OTHER PROFESSIONAL ACTIVITIES

IEEE Control Systems Society Vice-President for Technical Activities, 2019.

Elected member of the IEEE Control Systems Society (CSS) Board of Governors (BoG), 2018–2020.

Chair of the IEEE Control Systems Society Awards Committee, 2016–2018.

Appointed member of the IEEE Control Systems Society (CSS) Board of Governors (BoG), 2016.

Vice Chair of the Int. Federation of Automatic Control (IFAC) Technical Committee on Networked Systems, 2009–2011 and 2012–2014.

Member of the IFAC Technical Committee 1.3 on Discrete Event and Hybrid Systems, 2011-2014.

Member of the IEEE Control Systems Society Technical Committee on Computational Aspects of Control Systems Design (TC-CACSD), 2011.

Elected member of the IEEE Control Systems Society (CSS) Board of Governors (BoG), 2009-2011.

Appointed member of the IEEE Control Systems Society (CSS) Board of Governors (BoG) 2008.

Associate editor of the IEEE Transactions on Automatic Control, 2004–2007.

Participant in the UNESCO's Encyclopedia of Life Support Systems (EOLSS) as an article-level writer for Article 6.43.28.7. "Stabilization through Hybrid Control", 2000–04.

PUBLICATIONS

Author of over 400 papers published in peer-reviewed conferences and journals. A full list of publications is available online at http://www.ece.ucsb.edu/~hespanha/published.html

INVITED LECTURES

AeroVironment, CA; Boston Univ., MA; California Institute of Technology, Pasadena; Carnegie Mellon University, Pittsburgh, PA; Concordia Univ., Montreal, Canada; Georgia Tech, Atlanta; Grenoble Univ., France; Harvard Univ., Boston; Honeywell Technology Center, Minneapolis, MN; Institute for Mathematics and its Application, Minneapolis, MN; Instituto Superior Técnico, Lisbon, Portugal; KTH, Stockholm, Sweden: Kyoto Univ., Japan: Lawrence Berkeley National Laboratory, Berkeley, CA: Lund Univ., Sweden: Massachusetts Institute of Technology, Boston; Missouri University of Science and Technology; Naval Postgraduate School, Monterey, CA; The Ohio State University, Columbus; Rensselaer Polytechnic Institute, Troy, NY; Rutgers Univ., NJ; Space and Naval Warfare Systems Center, San Diego, CA; Stanford Univ., Palo Alto, CA; Stockholm Institute of Technology, Sweden; Texas A & M University, College Station; Tokyo Institute of Technology, Japan; US Air Force Research Laboratory, Kirtland Air Force Base, Albuquerque, NM; US Air Force Research Laboratory, Wright-Patterson Air Force base, Dayton, OH; US Army Research Laboratory, Adelphi, Maryland; United States Academy, West point, NY; United Technologies Research Center (UTRC), Hartford, CT; Univ. of British Colombia, Vancouver, Canada; Univ. of California, Berkeley; Univ. of California, Los Angeles; Univ. of California, Riverside; Univ. of California, San Diego; Univ. of Illinois, Urbana-Champaign, IL; Univ. of Maryland, College Park; Univ. of Michigan, Ann Arbor; Univ. of Minnesota, MN; Univ. of Notre Dame, South Bend, IN; Univ. of Pennsylvania, Philadelphia; Univ. of Southern California, Los Angeles; Univ. of Stuttgart, Germany; Univ. of Texas, Dallas; Univ. of Texas, San Antonio; Univ. of Washington, Seattle; Yale Univ., New Haven, CT.