Nithin Govindarajan

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PERSONAL INFORMATION Gender: Male

DRMATION Date of birth: December 11th, 1987

Place of birth: Hyderabad, India

Marital status: Single

RESEARCH INTERESTS Dynamical systems, control theory, operator theory, matrix analysis, reachable set computation, system identification.

EDUCATION

University of California of Santa Barbara, Santa Barbara, United States

Doctor of Philosophy, Mechanical Engineering

Sept 2014 - present

• Advisor: Prof. I. Mezic, Prof. S. Chandrasekaran

Technische Universiteit Delft, Delft, The Netherlands

Master of Science, Aerospace Engineering (Cum Laude) Sept 2009 - Oct 2012

• Advisor: Assoc. Prof. C. C. de Visser.

Bachelor of Science, Aerospace Engineering (Cum Laude) Sept 2006 - July 2009

PUBLICATIONS

N. Govindarajan, H. Arbabi, L. van Blargian, T. Matchen, E. Tegling, and I. Mezic An operator-theoretic viewpoint to non-smooth dynamical systems: Koopman analysis of a hybrid pendulum. Submitted to CDC 2015.

N. Govindarajan, C.C. de Visser, K. Krishnakumar, J. Barlow, E. van Kampen, V. Stepanyan An optimal control framework for estimating autopilot safety margins (2014). Journal of Guidance, Control, and Dynamics, 1-11.

N. Govindarajan, C.C. de Visser, K. Krishnakumar A sparse collocation method for solving time-dependent HJB equations using multivariate B-splines (2014). Automatica 50 (9), 2234-2244.

N. Govindarajan An Optimal Control Approach for Estimating Aircraft Command Margins. MSc Thesis, Delft University of Technology, 2012.

RECOGNITIONS AND AWARDS

ME department UCSB, Santa Barbara, United States

Department Merit Fellowship.

March 2014

Nuffic, The Hague, The Netherlands

Huygens Scholarship Programme.

May 2011

Professional Experience

National Aerospace Laboratory (NLR), Amsterdam, The Netherlands

Junior R&D engineer - Cockpit & Flight Operations (ATCF) Nov 2012 - May 2013

Mission Critical Technologies (MCT) Inc., El Segundo, CA, United States

 $Intern/junior\ researcher$

Sept 2011 - May 2012

• On site at NASA Ames Adaptive Control and Evolvable Systems (ACES) group.

Teaching

ME department UCSB, Santa Barbabara, The Netherlands

Teaching assistant ME14: Statics

Fall 2014

Teaching assistant ME163: Vibrations

Winter 2015

Teaching assistant ME16: Dynamics

Spring 2015

Studentplus, Delft, The Netherlands

 $Maths\ tutor$

Feb 2007 - May 2008

• Personal tutoring for high school students on the subject of mathematics.

SOFTWARE SKILLS

Simulation and Programming: Matlab & Simulink, Maple, Mathematica, $\mathrm{C/C}{++},$

Java

CAD: Dassault Systèmes CATIA V5

Computer Applications: Microsoft Windows family, T_EX (L^AT_EX).

LANGUAGES

English and Dutch - fluent.

Hobbies and Interests Wing-Chun Kung Fu, salsa dancing, fitness, travel.