

[illegible]

Myelogenous Leukemia). We viewed the blast crisis as a loss of stability of the underlying nonlinear delay-differential model. From this perspective therapeutic treatment and prognosis can be studied using algorithmic approaches to stability. In collaboration with theorists and clinicians at the hospital HOTEL-DIEU, we developed models of patient response using both biological principles and numerical data.

National Institute for Research in Computer Science and Control (INRIA), Rocquencourt, France **2006 - 2007**
Signals and SYstems in PHysiology & Engineering (SISYPHE)
Postdoctoral Research Fellow

During my first postdoc at INRIA, I worked on the use of Sum-of-Squares algorithms for analysis of systems with nonlinearity and delay. During this time, we developed the SOS method for stability analysis of delayed linear systems. This SOS method has since largely displaced other LMI methods for stability analysis of linear time-delay systems. One of the other interesting research areas developed during this period was a set of converse SOS Lyapunov results for nonlinear systems and delayed systems. This result showed that Sum-of-Squares algorithms converge as the polynomial degree increases.

Networked Systems and Controls Laboratory, Stanford, California **2002 - 2006**
Stanford University **Advisor: Sanjay Lall**
Research Assistant

My doctoral research focused on the ability of communication networks to handle nonlinearity and delay. In my work on optimization-based control of networks, I studied the proposed FAST TCP using a hybrid, nonlinear, time-delayed model of the Internet. Using a technique known as analysis via Integral Quadratic Constraints (IQC), I was able to prove convergence of the protocol, giving necessary and sufficient conditions for stability. Additionally, during this period, I begin my work on Sum-of-Squares algorithms for stability analysis of nonlinear systems with delay using semidefinite programming. Implementations of these algorithms are now available online.

SuperNova Acceleration Probe (SNAP) project, Berkeley, California **2000 - 2001**
Lawrence Berkeley National Laboratory
Research Assistant

I worked on developing a lunar gravity-assist trajectory for the Supernova/Acceleration Probe (SNAP). I developed a prototype algorithm for the construction of lunar gravity assist trajectories for the purpose of evaluation of cost and feasibility.

Gravity Probe B, Stanford, California **2000 - 2001**
Stanford University
Research Assistant

I performed analysis of the orbital configuration of the GPS satellite constellation to determine optimal antenna design and orientation. Presented results to engineers and to the 2001 GPS III conference in Phoenix.

Johnston Space Center, Clear Lake, Texas **1998 - 1999**
Lockheed Martin Space Operations Corp. **Flight Dynamics Planning and Analysis Group**
Applications Engineer

Developed flight dynamics software for the International Space Station. Programmed orbital dynamics simulators using ADA and MatrixX. Improved graphical interfaces using GPip and PVWave. Participated in design review and inspection process. Worked on testing and implementation of software.

Applied Research Laboratories, Austin, Texas **1997 - 1998**
Department of Defense
Undergraduate Researcher

Fusion Research Center, Austin, Texas **1996 - 1997**
University of Texas at Austin
Undergraduate Researcher

COURSES TAUGHT **MMAE 441: Spacecraft and Aircraft Dynamics** A senior-level undergraduate class on the basics of flight dynamics and orbital mechanics. Kinematics and dynamics of particles, systems of particles, and rigid bodies; translating and rotating reference frames; Euler angles; aircraft longitudinal and lateral stability; aircraft nonlinear and linearized equations of motion; Spacecraft orbital mechanics; two-body problem; classical orbital elements; orbital maneuvers; interplanetary trajectories. **Lecture Slides:** Over 700 original slides with over 500 illustrations, movies, and embedded multimedia. Texts: Etkin/Reid, Vallado. Taught: Fall, 2008; Fall, 2010 Recent Evaluation: (4.2/5).

MMAE 543: Modern Control Systems An advanced graduate course on the fundamentals of computational control. No prerequisite. Closely follows the text by Dullerud and Paganini. feedback control; vector spaces; convexity; singular value decomposition; LMIs; state-space systems; controllability and observability; linear analysis and frequency-domain spaces; the Lyapunov equation; full-state feedback; output feedback; optimal control. **Lecture Slides:** Texts: A Course in Robust Control Theory: A Convex Approach by Dullerud and Paganini. Taught: Spring, 2009; Spring, 2010; Fall, 2011.

MMAE 443: Systems Analysis and Control A senior-level undergraduate class on dynamical systems analysis and controller design. Block Diagrams; Linearization; State-Space; Laplace and Inverse Laplace Transform; Transient Response Characteristics; P, PD, and PID control; Stability; Root Locus; Bode Plots; Nyquist Diagrams; Lead-Lag Compensation; Notch filters. **Lecture Slides.** Text: Franklin, Powell and Emami; Taught: Fall, 2009; Spring, 2010; Spring, 2011 - 2 sections; Fall, 2011

AWARDS AND
PENDING
PROPOSALS

- **Brasilian and French Governments (FAPESP and ANR)**, *Parameter-dependent semidefinite programming in robust control. Application to analysis of dynamical system interaction networks*. Role: Co-PI; Amount/Duration: 20,000 euro / 2006-2008 Status: **FUNDED**
- **IIT International Undergraduate Student Research Program** *Computational Control of the Vibration Equation*. Role: Sole PI; Amount: \$1,500; Dates: 06/01/2011 - 08/14/2011; Status: **FUNDED**.
- **French Consulate (Chateaubriand Program)** *Output and State Feedback Stabilization of Distributed Parameter Systems using Sum of Squares Polynomials and its Application to Nuclear Fusion* Role: Sole PI; Amount: expensed (6 mo./year tuition + \$2400/mo stipend + travel expenses); Dates: 09/1/2011 - 8/31/2013; Status: **FUNDED**.
- **NSF CMMI-1100376** *Solving Large Sum-of-Squares Optimization Problems in Control by Exploiting the Parallel Structure of Poly's Algorithm* Role: Sole PI; Amount: \$237,473; Dates: 9/1/2011-8/31/2014; Status: **FUNDED**.
- **NSF CAREER** *Sum-of-Squares as a Tool for Control of Delayed and Partial-Differential Systems*. Program: Control Systems; Role: Sole PI; Requested Amount: \$400,000; Submitted: 07/26/2011; Status: Pending.
- **AFOSR Young Investigator Program** *Convergence, Complexity, and Error Bounds: Using Converse Lyapunov Theory to Verify the Reliability of Sum-of-Squares for Control of Nonlinear* Program/PO: CS/Fahroo; Role: Sole PI; Requested Amount: \$360,000; Submitted: 08/07/2011; Status: Pending.
- **NSF EPAS: Dynamic Output Feedback Control Synthesis for Multi-state PDE Models Arising in Fusion Plasmas: New Analytical and Computational Methods** Program: EPAS; Role: Joint PI with E. Schuster (Lehigh); Requested Amount: \$215,743; Submitted: 10/07/2011; Status: Pending;

PROFESSIONAL
REFERENCES

IIT References Available Upon Request

Dr. Sanjay Lall

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for Scientific Research(CNRS)
Head of Laboratoire des Signaux et Systemes (L2S)
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Computer Science and Control(INRIA)
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E-mail: antonis@eng.ox.ac.uk
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CURRENT
GRADUATE
STUDENTS

Aditya Gahlawat, PhD student

2009 - present

Reza Kamyar, PhD student

2010 - present

Chaitanya Murti, MS student

2010 - present

Jiawang Wu, PhD student

2011 - present

SOFTWARE

SOSCode, S. Lall, M. Peet, and T. Wang. A self-contained Matlab toolbox for the efficient construction of sum-of-squares programming problems.

DelayTools/Linear, M. Peet. A set of Matlab functions and files for the analysis on n-dimensional linear systems with m discrete delays. Separate files handle the deterministic and generalized uncertainty cases separately. Available for download from: <http://www-rocq.inria.fr/~peet/software>

DelayTools/Nonlinear, M. Peet. A set of Matlab functions and files for the analysis on n-dimensional nonlinear polynomial systems with m discrete delays. Separate files handle the deterministic and generalized uncertainty cases separately. Available for download from: <http://www-rocq.inria.fr/~peet/software>

DelayTools/Complex, M. Peet. A number of matlab toolbox functions for analysis of transfer functions in the frequency domain using SOS and positivstellensatz techniques. Scripts test quasipolynomial transfer functions for both delay-independent and delay-dependant H_∞ stability and delay-independent exponential stability. The delay-dependent test is based on the paper by Zhang et al. Available for download from: <http://www-rocq.inria.fr/~peet/software>

PROFESSIONAL
ACTIVITIES

- University Service: Computing Committee (2008-2010). Undergraduate Research (2010-2011) Computing Coordinator (2010-2011). Undergraduate Studies Committee (2010-2011).
- IEEE Technical Committee on Power Generation Control
- IEEE Technical Committee on Systems with Uncertainty
- International Program Committee: IEEE Multi-Conference on Systems and Control. Denver, CO, 2011;

- Technical Committee: 3rd International Conference on Control and Optimization with Industrial Applications. Bilkent University, Turkey, 2011.
- International Program Committee: Seventh International Conference on Mathematical Problems in Engineering, Aerospace and Sciences. Genoa, Italy, 2008;
- Organized Workshops: Workshop on Time-Delay Systems at IFAC World Conference, 2008; Workshop on Uncertain Systems at the IEEE Multi-Conference on Systems and Controls, 2010;
- Organizer and Chair: Invited Session on “Computational Methods for Nonlinear and Time-Delay Systems” at Seventh International Conference on Mathematical Problems in Engineering, Aerospace and Sciences. Genoa, Italy, 2008;
- Chair: “Delay Systems 2”, at the Mathematical Theory of Networks and Systems. Blacksburg, VA, 2008.
- Co-Chair, “Time Delay Uncertain Systems”, at the 45th IEEE Conference on Decision and Control, 2006.
- Evaluation Panels: National Science Foundation (NSF); Icelandic Research Fund; National Research Foundation (South Africa)
- Reviewer: IEEE Transactions on Automatic Control (20), Automatica (27), IEEE Transactions on Circuits and Systems - I (5), Journal of Mathematical Analysis and Applications (3), Journal of the Franklin Institute (1), Linear Algebra and Its Applications (1), IET Control Theory and Applications (1), IEEE/CSS Conference on Decision and Control (16), American Control Conference (6), Southwest Symposium on Systems and Control (1), IFAC Workshop on Time-Delay Systems (3), IFAC World Congress (5), Conference on Control and Optimization with Industrial Applications(1).
- Member: IEEE, AIAA, SIAM, SMAI

JOURNAL
PUBLICATIONS

- A. Gahlawat and M. Peet *A Sum-of-Squares Approach to H_∞ -optimal control of PDE Systems*. Submitted to Automatica.
- R. Kamyar, M. Peet and Y. Peet *Solving Large-Scale Robust Control Problems by Exploiting the Parallel Structure of Polya’s Theorem*. Submitted to IEEE Transactions on Automatic Control.
- A. Seuret and M. Peet. *Stability analysis of sampled-data systems using Sum of Squares*. Submitted to Automatica.
- M. Peet and A. Papachristodoulou *A Converse Sum of Squares Lyapunov Result with a Degree Bound*. To Appear in IEEE Transactions on Automatic Control. Full Paper.
- Y. Zhang, M. Peet and K. Gu. *Reducing the Complexity of the Sum-of-Squares Test for Stability of Delayed Linear Systems*. IEEE Transactions on Automatic Control. Vol 56, No. 1, 2011.
- M. M. Peet and P.-A. Bliman. *On the Conservatism of the Sum-of-Squares Method for Analysis of Time-Delayed Systems*. Automatica. Vol 49, No. 11, Nov. 2011.
- M. M. Peet. *Exponentially Stable Nonlinear Systems have Polynomial Lyapunov Functions on Bounded Regions*. IEEE Transactions on Automatic Control, Vol. 52, No. 5, May 2009. Full Paper.
- A. Papachristodoulou, M. Peet and S. Lall *Analysis of Polynomial Systems with Time Delays via the Sum of Squares Decomposition*. IEEE Transactions on Automatic Control. Vol. 52, No. 5, May 2009.
- M. M. Peet, P. Kim, S.-I. Niculescu, and D. Levy *New Computational Tools for Modeling Chronic Myelogenous Leukemia* Mathematical Modeling of Natural Phenomena, Vol. 4, No. 2, 2009. Full Paper.
- M. M. Peet, A. Papachristodoulou and S. Lall. *Positive Forms and Stability of Linear Time-Delay Systems*. SIAM Journal on Control and Optimization. Vol. 47, No. 6, pp. 3237-3258, 2009. Full Paper.
- M. Peet and S. Lall. *Global Stability Analysis of a Nonlinear Model of Internet Congestion Control*

with Delay. IEEE Transactions on Automatic Control. Vol. 52, No. 3, March 2007.

- BOOK CHAPTERS
- Y. Zhang, M. Peet and K. Gu. Chapter *Accelerating Convergence of Sum-of-Square Stability Analysis of Coupled Differential-Difference Equations*. In “Time Delay Systems - Methods, Applications and New Trends” Springer Lecture Notes in Control and Information Science. Vol. 423. January 2012.
- P. S. Kim, M. M. Peet, D. Levy and P. P. Lee. *Modeling and Simulations of the Immune System as a Self-Regulating Network*. Academic Press, Methods in Enzymology. To Appear.
- M. M. Peet, C. Bonnet, and H. Ozbay. Chapter *SOS Methods for Stability Analysis of Neutral Differential Systems*. Springer Lecture Notes in Control and Information Science, vol. 388. October, 2009.
- A. Papachristodoulou and M. Peet. Chapter *SOS Methods for Nonlinear Delayed Models in Biology and Networking*. Springer Lecture Notes in Control and Information Science, vol. 388. October, 2009.
- TUTORIAL SESSIONS
- M. M. Peet. *Using SOS for Analysis and Control of Delayed and Infinite-Dimensional Systems*. IEEE Multi-Conference on Systems and Control. Kyoto, Japan, Sept. 2010;
- M. M. Peet and U. Munz *Using SOS for analysis of Networked Control Systems*. IFAC World Congress, Seoul, Korea. July 6 - 11, 2008.
- CSI-INDEXED
PEER-REVIEWED
CONFERENCE
PAPERS
- R. Kamyar and M. Peet *Solving Large-Scale Robust Control Problems by Exploiting the Parallel Structure of Polyá’s Theorem*. Submitted to ACC, 2012.
- A. Gahlawat and M. Peet *Designing Observer-Based Controllers for PDE systems: A Heat-Conducting Rod With Point Observation and Boundary Control*. To appear at CDC, 2011.
- M. Peet, P. Kim and P. Lee *Biological Circuit Models of Immune Regulatory Response: A Decentralized Control System*. To appear at CDC, 2011.
- A. Seuret and M. Peet. *SOS for Sampled-Data Systems*. Proceedings of the IFAC World Congress. Milan, Italy. Aug. 28-Sept. 2, 2011.
- A. Gahlawat, M. Peet and E. Witrant. *Control and Verification of the Safety-Factor Profile in Tokamaks Using Sum-of-Squares Polynomials*. Proceedings of the IFAC World Congress. Milan, Italy. Aug. 28-Sept. 2, 2011.
- M. M. Peet *A Converse Sum-of-Squares Lyapunov Result: An Existence Proof Based on the Picard Iteration*. 49th IEEE Conference on Decision and Control, Atlanta, GA. Dec. 15-17, 2010.
- Y. Zhang, M. Peet and K. Gu. *Reducing the Computational Cost of the Sum-of-Squares Stability Test for Time-Delayed Systems*. Proceedings of the American Control Conference. Baltimore, MD. June 30 - July 2, 2010.
- M. M. Peet and Y. V. Peet. *A Parallel-Computing Solution for Optimization of Polynomials*. Proceedings of the American Control Conference. Baltimore, MD. June 30 - July 2, 2010.
- M. M. Peet *A Bound on the Continuity of Solutions and Converse Lyapunov Functions*. 48th IEEE Conference on Decision and Control, Shanghai, China. Dec. 16-18, 2009.
- M. M. Peet and A. Papachristodoulou *Using Polynomial Semi-Separable Kernels to Construct Infinite-Dimensional Lyapunov Functions*. Invited Session on Infinite-Dimensional Systems, 47th IEEE Conference on Decision and Control, Cancun, Mexico. December 9-11, 2008.
- A. Papachristodoulou and M. M. Peet. *Global Stability Analysis of Primal Internet Congestion Control Schemes with Heterogeneous Delays*. IFAC World Congress, Seoul, Korea. July 6 - 11, 2008.

M. M. Peet and P.-A. Bliman. *Polynomial Lyapunov Functions for Exponential Stability of Nonlinear Systems on Bounded Regions*. IFAC World Congress, Seoul, Korea. July 6 - 11, 2008.

A. Papachristodoulou, M. M. Peet and S.-I. Niculescu. *Stability Analysis of Linear Systems with Time-Varying Delays: Delay Uncertainty and Quenching*. 46th IEEE Conference on Decision and Control, New Orleans, LA. December 12-14, 2007. pp. 2117-2122

M. M. Peet and A. Papachristodoulou. *Positivity of Kernel Functions for Systems with Communication Delay*. 46th IEEE Conference on Decision and Control, New Orleans, LA. December 12-14, 2007. pp. 2815-2820

M. Peet, A. Papachristodoulou and S. Lall. *Positive Forms and Stability of Linear Time-Delay Systems*. Proceedings of the 45th IEEE Conference on Decision and Control, pp. 187-193 December 2006. **(Best Paper in Session)**

A. Papachristodoulou and M. M. Peet. *On the Analysis of Systems Described by Classes of Partial Differential Equations*. Proceedings of the 45th IEEE Conference on Decision and Control, pp. 747-752, December 2006.

A. Papachristodoulou, M. Peet and S. Lall. *Constructing Lyapunov-Krasovskii Functionals for Linear Time Delay Systems*. Proceedings of the American Control Conference, pp. 2845-2850, June 2005.

M. Peet and S. Lall. *On Global Stability of Internet Congestion Control*. Proceedings of the 43rd IEEE Conference on Decision and Control, pp. 1035-1041, December 2004.

OTHER
PEER-REVIEWED
CONFERENCE
PAPERS

Y. Zhang, M. Peet and K. Gu. *Accelerating Convergence of Sum-of-Square Formulation for Lyapunov-Krasovskii Stability Analysis of Coupled Differential-Difference Equations*. 9th IFAC Workshop on Time-Delay Systems. Prague, Czech Republic. June 7 - 9, 2010.

M. M. Peet and A. Papachristodoulou. *Inverses of Positive Linear Operators and State Feedback Design for Time-Delay Systems*. 8th IFAC Workshop on Time-Delay Systems. Sinaia, Romania. Sept. 1-3, 2009. To Appear.

M. M. Peet, H. Özbay and C. Bonnet *SOS Methods for Delay-Dependent Stability of Neutral Differential Systems*. Mathematical Theory of Networks and Systems, Blacksburg, VA. July 28 - Aug. 1, 2008.

M. M. Peet and P.-A. Bliman. *The Weierstrass Approximation Theorem on Linear Varieties: Polynomial Lyapunov Functionals for Delayed Systems*. Mathematical Theory of Networks and Systems, Blacksburg, VA. July 28 - Aug. 1, 2008.

M. M. Peet. *Exponentially Stable Nonlinear Systems have Polynomial Lyapunov Functions on Bounded Regions*. 45th Annual Allerton Conference on Communication, Control and Computing. Monticello, IL. Sept. 26-28, 2007.

C. Bonnet and M. M. Peet. *Using the Positivstellensatz for Stability Analysis of Neutral Delay Systems in the Frequency Domain*. 7th IFAC Workshop on Time-Delay Systems. Nantes, France. Sept. 17-19, 2007.

M. M. Peet and P.-A. Bliman. *An Extension of the Weierstrass Theorem to Linear Varieties: Application to Delayed Systems*. 7th IFAC Workshop on Time-Delay Systems. Nantes, France. Sept. 17-19, 2007.

M. M. Peet and C. Bonnet. *Stability and Computation of Roots in Delayed Systems of Neutral Type*. IFAC Workshop on Control of Distributed Parameter Systems. Namur, Belgium. June 22-27, 2007.

M. M. Peet. *On Positive Quadratic Forms and Stability of Linear Systems*. Conférence de la SMAI sur l'optimisation et la décision. April, 2007.

M. Peet and S. Lall. *Constructing Lyapunov Functions for Delay-Differential Equations using Semidefinite Programming*. Proceedings of the 6th IFAC Symposium on Nonlinear Control Systems (NOLCOS), pp. 381-381, August 2004.

INVITED SEMINARS
AND CONFERENCE
PRESENTATIONS

IFAC World Congress. Present Paper. Milan, Italy. September, 2011.

Texas A&M University. College Station, TX. March, 2011.

Lehigh University. Bethlehem, PA. February, 2011.

The University of California. Berkeley, CA. February, 2011.

Stanford University. Stanford, CA. January, 2011.

IEEE Conference on Decision and Control. Present Paper: FrA20.5, December 2010.

University of Notre Dame. South Bend, IN. Oct. 14, 2010.

American Control Conference. Baltimore, MD. Present Paper FrA05.2. July 2, 2010.

American Control Conference. Baltimore, MD. Present Paper FrA09.6. July 2, 2010.

University of Oxford. Oxford, UK. June 16, 2010.

University of Grenoble. Grenoble, France. June 11, 2010.

IFAC Worskhop on Time-Delay Systems. Present Paper. June 8, 2010.

University of Minnesota. Minneapolis-St. Paul, MN. April 19, 2010.

University of Utah. Salt Lake City, UT. March 31, 2010.

IEEE Conference on Decision and Control. Present Paper: ThA01.4, December 2009.

8th IFAC Workshop on Time-Delay Systems. Present Paper. Sinaia, Romania. Sept., 2009.

Stanford University. Stanford, CA. May, 2009.

The University of Southern Illinois. Eduardsville, IL. February, 2009.

IEEE Conference on Decision and Control. Present Paper: TuB07.3, December 2008.

University of Illinois at Urbana-Champaign. Coordinated Systems Laboratory. Champaign, IL. October, 2008.

Conference on Mathematical Theory of Networks and Systems. Paper Presentation: RSAlgGeo.2 . Blacksburg, Virginia. July, 2008.

Conference on Mathematical Theory of Networks and Systems. Paper Presentation: RSDelay2.1 . Blacksburg, Virginia. July, 2008.

IFAC World Congress. Pre-conference Workshop: WS7, Seoul, South Korea. July, 2008.

IFAC World Congress. Present Paper: MoB02.2, Seoul, South Korea. July, 2008.

IFAC World Congress. Present Paper: MoC14.5, Seoul, South Korea. July, 2008.

European Conference on Mathematical and Theoretical Biology. Edinburgh, U.K., June 29th - July 4th, 2008.

ICNPAA 2008: Mathematical Problems in Engineering, Aerospace and Science. Genoa, Italy. June, 2008.

LAAS, Groupe de Travail EDP - GDR MACS. Toulouse, France. June, 2008.

State University of Campinas, School of Electrical and Computer Engineering. Campinas, Brasil. June, 2008.

Katholieke Universiteit Leuven, Department of Electrical Engineering, OPTEC Group. Leuven, Belgium. May, 2008.

Illinois Institute of Technology. Department of Mechanical, Materials, and Aerospace Engineering. Chicago, IL. March, 2008.

Workshop on Haematopoiesis and its Disorders. Modeling, Experimental and Clinical Approaches. Paris, France, March 20-21, 2008.

IEEE Conference on Decision and Control. Present Paper: WePI27.12, December 2007.

IEEE Conference on Decision and Control. Present Paper: ThPI23.18, December 2007.

45th Annual Allerton Conference on Communication, Control and Computing. Monticello, IL. Sept. 26-28, 2007.

7th IFAC Workshop on Time-Delay Systems. Present Paper 55. Nantes, France. Sept. 17-19, 2007.

7th IFAC Workshop on Time-Delay Systems. Present Paper 67. Nantes, France. Sept. 17-19, 2007.

IFAC Workshop on Control of Distributed Parameter Systems. Namur, Belgium. June 22-27, 2007.

Conférence de la SMAI sur l'optimisation et la décision. April, 2007.

State University of Campinas, School of Electrical and Computer Engineering. Campinas, Brasil. March, 2007.

Réunion EDP-MOSAR Paris. March, 2007.

IEEE Conference on Decision and Control. Present Paper: WeA06.1, December 2006.

IEEE Conference on Decision and Control. Present Paper: WeA06.4, December 2006.

INRIA - Rocquencourt. Rocquencourt, France. November 2006.

American Control Conference. Present Paper: ThB18.6, June 2005.

Seagull Technology. May, 2005.

Stanford Aerospace Affiliates. April, 2005.

IEEE Conference on Decision and Control. Present Paper: TuC03.6, December 2004.

IFAC Symposium on Nonlinear Control Systems(NOLCOS). August 2004.

Stanford Aerospace Affiliates. April, 2004.

GPS III Conference. June, 2001.