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RESEARCH INTERESTS	Networked controlled systems, wireless sensor networks, distributed control, embedded systems, swarm robotics, biomimetic locomotion	
EDUCATION	<p>University of California at Berkeley, Berkeley, California, USA</p> <p><i>Ph.D.</i>, Electrical Engineering and Computer Sciences, December 2003</p> <ul style="list-style-type: none"> • Dissertation Topic: "Analysis and Control of Flapping Flight: from Biological to Robotic Insects " • Advisor: Prof. Shankar S. Sastry <p><i>Management of Technology Certificate</i>, Haas School of Business, July 2003</p> <p>University of Padova, Padova, Italy</p> <p><i>Laurea in Engineering</i>, Department of Electrical Engineering, July, 1999</p>	
ACADEMIC EXPERIENCE	<p>Adjunct Professor September, 2004 - present <i>Department of Information Engineering, University of Padova, Padova, Italy</i> Includes teaching of undergraduate and graduate classes and coordination of the Autonomous Navigation and Embedded Control Laboratory</p> <p>Post-doctoral Researcher December, 2003 - September, 2004 <i>Department of Electrical Engineering and Computer Sciences, U.C. Berkeley, Berkeley, USA</i> Research focus on tracking and coordination of multiple agents and wireless sensor networks</p> <p>Graduate Student Researcher August, 1999 - December, 2003 <i>Department of Electrical Engineering and Computer Sciences, U.C. Berkeley, Berkeley, USA</i> Research focus on flight control for micro-mechanical flying insects, biomimetic locomotion, control over lossy communication networks</p> <p>Teaching Assistant January, 2002 - May, 2002 <i>Department of Electrical Engineering and Computer Sciences, U.C. Berkeley, Berkeley, USA</i> Duties included teaching of the laboratory sections for an undergraduate class, fielding and oversight of student graders.</p> <p>Visiting Student September, 1996 - February, 1997 <i>Computing Science Department, University of Aberdeen, Aberdeen, Scotland</i> Joined a research team developing software for automated camera-based robotic manipulation intended to improve manufacturing performance in industrial settings</p>	
HONORS AND AWARDS	<p>Eli Jury Award for outstanding research achievement in the area of systems, communications, control or signal processing, U.C. Berkeley, 2006</p> <p>Researchers Mobility Professorship, Italian Ministry of Education University and Research, 2004</p> <p>Finalist for Best Student Paper, IEEE Int. Conf. on Decision and Control, Maui, Hawaii, 2003</p> <p>Finalist for Best Student Paper, IEEE Int. Conf. on Robotics and Automation, Taipei, Taiwan, 2003</p> <p>Education Abroad Program Fellowship, University of Padova, Padova, Italy, 1998</p> <p>ERASMUS Mobility Scholarship, European Union, 1996</p>	

JOURNAL
PUBLICATIONS

B. Sinopoli, L. Schenato, M. Franceschetti, K. Poolla, M.I. Jordan, S.S. Sastry. "Kalman Filtering with Intermittent Observations". IEEE Transactions on Automatic Control, special issue on Networked Control Systems, September, 2004

L.Schenato, W.C. Wu, S. Sastry. "Attitude Control for a Micromechanical Flying Insect via Sensor Output Feedback". IEEE Transactions on Robotics and Automation, February 2004.

B. Sinopoli, C. Sharp, L. Schenato, S. Shaffert, S. S. Sastry. "Distributed Control Applications within Sensor Networks". (Invited paper), Proceedings of the IEEE, August 2003.

JOURNAL
PUBLICATIONS
PENDING

X. Deng, L. Schenato, W.C. Wu, S. Sastry. "Flapping Flight for Biomimetic Robotic Insects: Part I-System Modeling". IEEE Transactions on Robotics. (In press)

X. Deng and L. Schenato and S. Sastry. "Flapping Flight for Biomimetic Robotic Insects: Part II-Flight Control Design". IEEE Transactions on Robotics. (In press)

S. Oh, L. Schenato, P. Chen, S. Sastry. "Tracking and coordination of multiple agents using sensor networks: system design, algorithms and experiments". Proceedings of IEEE. (Invited paper, accepted for publication)

L. Schenato, B. Sinopoli, M. Franceschetti, K. Poolla, S. Sastry. "Foundations of Control and Estimation over Lossy Networks". Proceedings of IEEE. (Invited paper, accepted for publication)

S. Oh, L. Schenato, P. Chen, S. Sastry. "A Scalable Real-Time Multiple-Target Tracking Algorithm for Wireless Sensor Networks". International Journal of Distributed Sensor Networks. (Submitted for publication)

L. Schenato. "Optimal estimation in networked control systems subject to random delay and packet drop". IEEE Transactions on Automatic Control (Submitted for publication)

SELECTED
CONFERENCE
PUBLICATIONS

L. Schenato, S. Oh, S. Sastry, P. Bose. "Swarm Coordination for Pursuit Evasion Games using Sensor Networks". Proceedings of IEEE Conference on Robotics and Automation, 2005

B. Sinopoli, L. Schenato, M. Franceschetti, K. Poolla, M.I. Jordan, S.S. Sastry. "Kalman Filtering with Intermittent Observations". Proceedings of IEEE Conference on Decision and Control, 2003. (finalist for best paper award)

X. Deng, L. Schenato, S. Sastry. "Model identification and attitude control for a micromechanical flying insect including thorax and sensor models". Proceedings of IEEE Conference on Robotics and Automation, 2003. (finalist for best paper award)

L. Schenato, D.Campolo, S. Sastry. "Controllability issues in flapping flight for biomimetic micro aerial vehicles (MAVs)". Proceedings of IEEE Conference on Decision and Control, 2003

L. Schenato, X. Deng, S. Sastry. "Flight control system for a micromechanical flying insect: architecture and implementation". Proceedings of IEEE Conference on Robotics and Automation, 2001

L. Schenato, X. Deng, W.C. Wu, S. Sastry. "Virtual insect flight simulator (VIFS): a software testbed for insect flight". Proceedings of IEEE Conference on Robotics and Automation, 2001

REFERENCES

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