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Information For:

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George J. Pappas

Joseph Moore Professor
Electrical and Systems Engineering (ESE)
Computer and Information Science (CIS)
Mechanical Engineering and Applied Mechanics (MEAM)

Email | Personal Webpage

Honors and Awards: Ruberti Young Researcher Prize - 2010, Axelby Outstanding Paper Award - 2009, IEEE Fellow - 2009, Presidential Early Career Award for Scientists and Engineers (PECASE) - 2004

Research Expertise: Control Systems | Robotics | Embedded Systems

George's research focuses on developing methods for the control of next-generation hierarchical and distributed systems. His research group focuses on developing analysis and design algorithms and tools for hybrid systems, which merge control systems with computing systems. Their methods have been used in developing algorithms for coordinated motion of fleets of unmanned aerial vehicles and multi-robot systems, analyzing the safety of next generation medical devices, and understanding the macroscopic behavior of biological networks.

Member of:

- General Robotics, Automation, Sensing and Perception (GRASP) Lab
- Embedded Computing and Integrated Systems (PRECISE)

Education:
PhD Electrical Engineering & Computer Sciences 1998 - University of California at Berkeley
MS Computer & Systems Engineering 1992 - Rensselaer Polytechnic Institute
BS Computer & Systems Engineering 1991 - Rensselaer Polytechnic Institute

Recent Publications

- Differentially private filtering, Le Ny, J. | Pappas, G.J., IEEE Transactions on Automatic Control, 2014

- From reactive to cognitive agents: Extending reinforcement learning to generate symbolic knowledge bases, Cerqueira, R.G. | Da Costa, A.L. | McGill, S.G. | Lee, D. | Pappas, G., Proceedings - 2013 IEEE Latin American Robotics Symposium, LARS 2013, 2013

- Hypothesis testing framework for active object detection, Atanasov, N. | Sankaran, B. | Le Ny, J. | Koletschka, T. | Pappas, G.J. | Daniilidis, K., Proceedings - IEEE International Conference on Robotics and Automation, 2013

- Demo abstract: Synthesis of platform-aware attack-resilient vehicular systems, Pajic, M. | Bezzo, N. | Weimer, J. | Sokolsky, O. | Michael, N. | Pappas, G.J. | Tabuada, P. | Lee, I., 2013 ACM/IEEE International Conference on Cyber-Physical Systems, ICCPS 2013, 2013

- Event-based Green scheduling of radiant systems in buildings, Nghiem, T.X. | Pappas, G.J. | Mangharam, R., Proceedings of the American Control Conference, 2013

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