Fully Funded PhD Opportunities in NeuroRobotics at BioRobotics Lab
Computer Science & Engineering Department
University of South Florida, Tampa, FL, USA

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Contact Information:
Prof. Alfredo Weitzenfeld
E-mail: aweitzenfeld@usf.edu
University of South Florida (USF)
Tampa, Florida, USA
Web: www.robolat.org

The Biorobotics Lab directed by Prof. Alfredo Weitzenfeld at the Computer Science and Engineering Department (CSE) in the University of South Florida (USF) in Tampa is looking has openings for new PhD positions in neurorobotics, a research area that converges neuroscience and robotics.

Research in neurorobotics at the USF BioRobotics Lab has as goal to develop computational models inspired in brain studies that can be applied to the control of autonomous robotics systems. Brain-Inspired neurorobotics and particularly spatial cognition is an increasingly important research area relating learning, memory, and navigation. The overall goal is to elucidate the basic principles of the different brain regions involved in spatial cognition in both animals and humans. These studies serve as basis for the development of new algorithms for spatial cognition in autonomous mobile robots mimicking the neural computations of the brain. These computational models are evaluated both in simulation and physical mobile robots, including wheeled robots, humanoids, and drones.

Requirements:
- A Bachelor's degree in computer science, computer engineering, or related field.
- Strong background in software programming, particularly Python, Java, and C++.
- Excellent English proficiency.
- Excellent writing and communication skills.

Optional:
- Master's degree.
- Experience with computational modeling of the brain.
- Hands-on experience with programming of autonomous robots.
- Demonstrated research experience (i.e., a good publication record).

Please send the following documents to aweitzenfeld@usf.edu:
- One page cover letter describing your research interests.
- CV or resume.
- Transcripts with GPA.
- 3 recommendation letter or contacts with emails.

COMPUTER SCIENCE AND ENGINEERING DEPARTMENT
4202 East Fowler Avenue, ENB 118, Tampa, Florida 33620-5550
Telephone (813) 974-3780