Weiwei Huang

Citizenship : Chinese - Date of birth : 17 September 1983

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Key Skills

- > Hands on experience in adult size humanoid robotic design, sensing, and system integration
- > Specialized in bipedal walking control
- > Experienced in dynamic modeling and simulation
- > Knowledge of RT-Linux based real time control
- > Strong software implementation skills in C/C++ and Matlab
- > A good team worker as well as capacity to work independently

Education

2005 to 2010	PhD in Mechanical Engineering
	SCHOOL NAME, National University of Singapore, Singapore
	Area of Research Focus: Humanoid Robot Control
2000 to 2004	Bachelor of Engineering in Automation
	SCHOOL NAME, University of Science and Technology of China, China

Work Experience

Institute for Infocomm Research (I2R), Singapore

Research Scientist I, Team Leader

August, 2010 to Present

Area of Focus: Bio-inspired cognitive navigation

Related Experience

ASLAN project: development of an adult size humanoid robot (Project Leader)

- Design the mechanical structure of humanoid robot in SolidWorks
- Design the electrical system for the motion control including processor, sensors, and actuators.
- Develop the real time control environment
- Champion of Robocup 2010 in adult size humanoid soccer
- Champion of Robocup 2010 in adult size humanoid technical challenge

LOCAS project: development of walking algorithm under various scenarios in simulation

- Develop a LIPM and preview control based algorithm for slope and staircase walking
 - Help to develop the jumping control algorithm
 - Help to develop the wall climbing and crawling algorithm

Project of push recovery for humanoid robot

- Develop a bio-inspired coordination method between limbs for push recovery
- Help to develop a phase modification based push recovery algorithm.

Activities and Interests

Activities Committee Member, Secretary of Singapore Innovation and Enterprise Association Committee Member of NUS Tostmaster Club.

Interests Traveling, Playing badminton

Languages

Chinese (native)

English (fluent, TOFEL 620 (taken in 2005))

References

Tiao Bo (Colleague in I2R)	Chew Chee-Meng (Supervisor in NUS)
Email: btian@i2r.a-star.edu.sg	Email: mpeccm@nus.edu.sg



NUS BIP III in the Dribble and Kick semi-final event... and coming up trumps in the "lifesize" category of the Humanoid League.

ASLAN in RoboCup 2010