Opening of Research Fellow and Research Associate positions in Interactive Virtual Characters and Social Robots

Job Description:

The Institute for Media Innovation (IMI http://imi.ntu.edu.sg/) at Nanyang Technological University immediately invites applications for post-doc and associate researcher positions to work in our leading research new media Institute (IMI) in Singapore, in the area of interactive virtual characters and social robots. Researchers will have an opportunity to work in a cutting-edge interactive environment with top equipment including a very realistic human-like robot, several other small size robots and an immersive room populated with virtual characters. They will also be part of a multinational research project in the BeingThere Centre.

Eligibility:

The successful candidates will conduct research at the intersection point of several technologies and topics such as 3D character animation, motion control for human-like robots, tracking of human gestures and facial expressions, decision making and dialogue systems. He/she will participate actively in the exploration, design and development of novel methods for real-time, human-robot and human-virtual human social interactions targeting real-world use cases.

The position requires a Master or preferably a PhD in the area of interactive virtual characters and social robots. The applicant must have experience in the above mentioned area as evidenced by publications in high level international journals and conferences. He/she should have expertise in one or more of the following topics and fundamental knowledge in computer graphics and animation, machine learning, computer vision and artificial intelligence:

- Expressive face and body animation for interactive virtual characters and robots
- Architectures for fusing multi-modal data from vision/sound channels and synchronizing multi-modal behaviour for real-time interaction
- Mixed-initiative, multi-modal, multi-party social interaction models inspired by social sciences and analysis of real interactions
- Cognitive models for long-term dialogue-based interaction (e.g. self-awareness, memory, adaptation, affective interaction)

Strong capacity, commitment to research and good communication skills are expected. High expertise in C++ is required, as well as proficiency in Python or other scripting language. Experience developing software in team using source code management (e.g. git) is a plus.

Please submit the following to nadiathalmann@ntu.edu.sg:

a. Curriculum vitae with photo
b. A brief research statement and description of past research experience
c. Two names and contacts of recommendation
d. Availability date

Review of applicants will begin immediately and continue until the positions are filled.
NTU (http://www.ntu.edu.sg) and IMI (http://imi.ntu.edu.sg/) offer vibrant multidisciplinary research environment, both students and faculty members enjoy a host of opportunities for research collaboration with world-leading universities and renowned institutes. There is a strong research culture where innovation and critical enquiry are key features, NTU researchers are immersed in the best of work environment.