
Title: Intelligent Interactive Systems Postdoctoral Fellow

Location: Downtown Toronto, ON, Canada

Date: March, 2017

Closing Date: May 1, 2017

Intelligent Assistive Technology and Systems Lab, University of Toronto / Toronto Rehab Institute-UHN

Description:

The Intelligent Assistive Technology and Systems Lab (IATSL) invites applications to the position of Intelligent Interactive Systems Postdoctoral Fellow. We are looking for candidates who have strong backgrounds and interests in artificial intelligence applied to human interactive systems, machine learning, affective computing, decision theoretic planning, or social computing. Candidates must hold a recent Ph.D. in computer science, cognitive science, computer engineering, mathematics, or a related field. The start date for the position is immediate.

The successful candidate will join a unique multi-disciplinary, multi-centre research team led by Dr. Alex Mihailidis (University of Toronto/TRI) that includes several bioengineers, computer scientists, occupational therapists, speech and language pathologists, neuroscientists, clinicians, and mechanical/electronic technicians. IATSL is affiliated with many prestigious institutions including the University of Toronto, Toronto Rehabilitation Institute, and Sunnybrook Health Sciences Centre. Funding comes from a variety of corporate and institutional partners, such as American Alzheimer Association, Alzheimer Society of Canada, and Intel Corporation.

The successful candidate will work closely with another post-doctoral fellow based at the University of Waterloo, supervised by Dr. Jesse Hoey (CHIL Lab), and other researchers at the University of Colorado on a unique project related to supporting individuals with cognitive impairments and developmental disabilities.

Our research program primarily aims at developing autonomous, intelligent computerised devices that can help people with disabilities live more independently. A major strength of the research program is the combination of basic science, computing principles, clinical research, as well as product design and development. Our research employs cutting edge technologies and computer techniques, such as stereo vision, partially observable Markov decision processes, and various other computer vision and decision making techniques.

Within this research, you will be expected to provide support for projects involving a variety of computer-driven assistive technologies and intelligent systems, with a primary focus on building intelligent interactive systems. The successful candidate will be expected to work closely with undergraduate, Master's and Ph.D. students, as well as the development of the project as a whole.

The initial position will be a fully-funded one-year contract, renewable based on performance and funding. Salary will be based on the applicant's previous experience and education.

For more information about our research, visit our web site: www.iatsl.org

For more information about the ongoing projects related to this position, visit ACT@HOME

(cs.uwaterloo.ca/~jhoey/research/act@home/), DIY-AIDE

(cs.uwaterloo.ca/~jhoey/research/diysmarthome/), an AGEWELL project, see agewell-nce.ca), and

BayesACT (bayesact.ca) projects.

Requirements:

The successful candidate must hold a recent Ph.D. in computer science, cognitive science, computer engineering, mathematics, or a related field. Candidates with a Ph.D. in biomedical engineering, medicine, psychology, or other clinical sciences will be considered if they have a demonstrated ability for technical (e.g. mathematical or computational) research. Publication of significant research in high quality venues will be a top priority for successful candidates. The candidate must be with a strong track record in artificial intelligence applied to human interactive systems, demonstrate extensive knowledge of machine learning techniques and computational intelligence. Applicants must be able to demonstrate strong leadership capabilities and an ability to lead projects in a research environment. The applicant will need to also demonstrate an aptitude for transdisciplinary research that addresses the intersections of health care, technology, and place.

The University of Toronto hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply, however, Canadian citizens and permanent residents will be given priority.

Application:

The closing date is May 1, 2017. To apply, please send a covering letter, curriculum vitae, a statement of your research interests (1-2 pages), country of citizenship and date of availability, and a copy of your university transcripts to:

Dr. Alex Mihailidis
Intelligent Assistive Technology and Systems Lab (IATSL)
University of Toronto
160 – 500 University Ave.
Toronto, Ontario, CANADA, M5G 1V7

E-mail: alex.mihailidis@utoronto.ca
FAX: (416) 946-8570

Submissions by e-mail are preferred. After an initial screening, selected applicants will be asked to forward three academic and/or professional letters of reference.