CURRICULUM VITAE

Heting Wang

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(a) Education & Training

University of Florida	Gainesville, FL	Human-centered Computing	Ph.D., Ongoing
Colorado State University	Fort Collins, CO	Computer Science	M.S., 2020
Northeastern University	Shenyang, China	Biomedical Engineering	B.E., 2016

(b) Research & Professional Experience

2020 – present	Teaching assistant & Research assistant in Ruiz Lab, University of Florida
2017 – 2020	Research assistant in CwC Lab, Colorado State University
2013 – 2016	Undergraduate in Biomedical Engineering, Northeastern University
2014, 2015	Summer intern at Neusoft training center

(c) Publications

1. H. Wang, V. Gaddy, J. R. Beveridge, and F. R. Ortega, Multimodal Technologies and Interaction 10.3390/mti5030013 (2021).
2. N. Krishnaswamy, R. Beveridge, J. Pustejovsky, D. Patil, D. G. McNeely-White, H. Wang, and F. R. Ortega, in *ICAT-EGVE 2020 - International Conference on Artificial Reality and Telexistence and Eurographics Symposium on Virtual Environments - Posters and Demos*, edited by A. Kulik, M. Sra, K. Kim, and B.-K. Seo (The Eurographics Association, 2020).
3. X. Cui, H. Wang, Y. Zhao, H. Ma, and K. Lim, in *4th International Conference on Computer, Mechatronics, Control and Electronic Engineering* (Atlantis Press, 2015).

(d) Experience

1. An Empathic Avatar in Task-driven Human-computer Interaction(2018.06-2020.07):
   - Utilized the Affdex SDK in a virtual avatar interactive system (Diana) in Unity to recognize and label user emotions.
   - Built a Facial Action Coding System (FACS) model and designed Diana's dynamic facial expressions based on user's emotions and gestures.
   - Analyzed data from human dyad emotional metrics measured in their cooperation of constructing blocks using Python and R.
2. Convolutional Neural Networks(2018.01-2018.05):
   Tested a classifier for MNIST hand-written digits on TensorFlow. Network accuracy reached 99% and report was shown to classmates.
3. Hadoop Distributed File System(2018.01-2018.05):
   - Programmed WordCount, PageRank, RDD and MapReduce algorithms in Hadoop distributed file system using Java.
   - Benchmarked file IO processing speed and duration when fed different parameters to the same framework.

4. Ray Tracing(2017.09-2017.12): Rendered image scenes with models and spheres in Java. From scratch, set up parameters, calculated 3D transformation, created ray reflection and refraction iterator, etc.
5. Encrypted Range Query Processing with Privacy Preserving Trees(2017.09-2017.12):
   - Constructed a multiway tree that stored bloom filters in each node.
   - Compiled in Java to hash input strings into bloom filters, searched these bloom filters with encrypted queries and finally retrieved data from the leaf nodes.
6. Mentor undergraduate students(2020.08-2020.12):
   - Weekly meetings with one mentee in Computer Science.
   - Mentored him to test many state-of-the-art neural networks on Github specializing the recognition of hazardous actions such as coughing and sneezing.
   - Provided problem-solving hints and advised him in preparation of a presentation and wrote a final report.
7. Received successful teaching assistant in evaluation (2020.12).
8. Software intern in Neusoft(2015.07):
   - Collaboratively implemented advanced C ++ programming, windows programming, and object-oriented analysis&design (UML modeling).
   - Collaboratively developed in Linux and built a hospital intelligent queuing system.
9. Student leader of cultural communication department in the student union (2014.09-2015.06): Arranged seminars inviting speakers and outstanding alumni, organized social events with international students, and managed financial affairs.

(e) Awards and Honors

1. Best demo: Situational Awareness in Human Computer Interaction: Diana's World, 2020
2. Outstanding Student Cadre, 2014
3. Third Prize Scholarships, 2013-2016