

MS. SILVIA AHMED [SVA]

Senior Lecturer

MSc

from

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Summer 2024

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Research Areas

- Human Computer Interaction (HCI)
- Artificial Intelligence & Robotics

Research Interests

- Machine Learning
- Deep Learning
- Application of AI in Environmental Science and Management
- Image Processing
- Human-computer interaction
- Big data

Teaching

- CSE 173 Discrete Mathematics

- CSE 215 Programming Language II
- CSE 215L Programming Language II Lab
- CSE 445 Machine Learning
- CSE 299 Junior Design Course

Selected Publications

Conference Papers

- Nova Ahmed, Lamia Iftekhar, Silvia Ahmed, Ridwan Rahman, Tanveer Reza, Sarah Shoilee, Charisma F. Choudhury, "Bap re Bap!: Driving Experiences through Multimodal Unruly Traffic on Bumpy Roads," ACM DEV, 2015
- Michael Klaiber, Donald G. Bailey, Silvia Ahmed, Yousef Baroud, Sven Simon, "A high throughput FPGA architecture for parallel connected components analysis based on label reuse.," FPT, 2013
- M. Klaiber, S. Ahmed, M. Najmabadi, Y. Baroud, W. Li, S. Simon, "Imaging Sensor with integrated feature extraction using connected component labeling," SENSOR, 2013
- Zhe Wang, Sven Simon, Michael Klaiber, Silvia Ahmed, Thomas Richter, "SSPQ – spatial domain perceptual image codec based on subsampling and perceptual quantization.," ICIP, 2012
- J. Laackmaan, S. Ahmed, R. Sedelmayer, M. Klaiber, W. Pauer, S. Simon, and H.-U. Moritz, "Investigation of polymerization and drying of polyvinylpyrrolidone in an acoustic levitator using a smart camera for online process measurement," ICLASS, 2012
- S. Ahmed, Z. Wang, M. Klaiber, S. Wahl, M. Wroblewski, S. Simon, "Parallel hardware architecture for JPEG-LS basen on domain decomposition.," SPIE Volume 8499, 2012

Others

- M. Klaiber, S. Ahmed, Z. Wang, L. Rockstroh, Y. Gera, S. Simon, "Online imaging analysis of spray processes based on a reconfigurable embedded system," 10th Workshop über Sprays, Techniken der Fluidzerstäubung und Untersuchungen von Sprühvorgängen, 2012