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Electrical & Computer Engineering

North South University



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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 Iftekhhar, 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



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