Tathagata Mukherjee

Assistant Professor,
Department of Computer Science
The University of Alabama in Huntsville
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Education

- Ph.D (Computer Science), Florida State University

- M.S (Computer Science), Florida State University

- MS (Computer Applications), WBUT

- B.S (Honors in Statistics), University of Kalyani

Research Interests

- Cybersecurity (Offensive Security, RFML)

- Optimization Algorithms for Machine Learning

- Applied Problems in Computational Geometry

- Cyber Law: Privacy and Cybercrime (challenges arising from Big Data)

- Mobile Forensics

Publications & Patents

1. Piyush Kumar, **Tathagata Mukherjee**, Eduardo Pasiliao, Liqin Xu "Method for Passive Approximate Localization using Frequency Modulation and Software Defined Radio" *USPTO Patent Granted August 2018, Application Number 15276737*

2. Debashri Roy, **Tathagata Mukherjee**, Mainak Chatterjee, Eduardo Pasiliao Jr. "Adaptive Video Encoding and Channel Selection for Video Streaming over SDRs" *Accepted IEEE International Performance Computing and Communications Conference 2018* (**Selected for Best paper Award**)

3. Orhan Akal, **Tathagata Mukherjee**, Adrian Barbu, Jared Paquet, Kevin George, Eduardo Pasiliao Jr. "A Distributed Sensing Approach for Single Platform Image-based Localization" *Accepted IEEE International Conference on Machine Learning Applications 2018*

4. Biswas Parajuli, Piyush Kumar, **Tathagata Mukherjee**, Sachin Jambawalikar, Eduardo Pasiliao Jr. "Fusion of Aerial Lidar and Images for Road Segmentation with Deep CNN" *Accepted ACM Sigpatial Conference 2018*

5. Debashri Roy, **Tathagata Mukherjee**, Mainak Chatterjee, Eduardo Pasiliao "Detection of Rogue Transmitters in RFML System for Vehicular Networks using SDR." *POSTER in NEWSDR 2018 Boston MA*

6. **Tathagata Mukherjee**, Andreas Adolfson, Piyush Kumar, Eduardo Pasiliao, "Hierarchical Learning For FM Radio Based Aerial Localization Using RSSI." *2017 In Proceedings of GNU Radio Conference, Volume 2*

7. **Tathagata Mukherjee**, Michael Duckett, Piyush Kumar, Daniel Rodriguez, Jared Paquet, Mallory Haulcomb, Kevin George, Eduardo Pasiliao. "RSSI-Based Supervised Learning For Uncooperative Direction-Finding." *2017 In Joint European Conference on Machine Learning and Knowledge Discovery in Databases. pp 216-227*

8. **Tathagata Mukherjee**, Biswas Parajuli, Piyush Kumar, Eduardo Pasiliao. "TruthCore: Non-parametric Estimation of Truth from a Collection of Authoritative Sources." *2016 IEEE International Conference on Big Data. pp 976-983*

9. Piyush Kumar, **Tathagata Mukherjee**, Eduardo Pasiliao, Liqin Xu. "Cheap Approximate Localization Using FM Radio" *Proceedings of the 23rd SIGSPATIAL International Conference on Advances in Geographic Information Systems* **Authors sorted by last name**

Teaching

1. Spring 2019: CS 465-565 Network Security (Coming Up)

2. Fall 2018: CS 465-565 Network Security