

**Office of Technology Transfer  
Active Intellectual Property Disclosures**

**Software and Computer Hardware**

| <b>IP Disclosure Number</b> | <b>IP Disclosure Title</b>  | <b>Inventor(s)</b>   |
|-----------------------------|---|--|
| <b>029/2017</b>             | The Gatekeeper Framework (Security Networking)  | Dr. Kevin Kornegay,<br>Dr. Willie Thompson   |
| <b>034/2017</b>             | Multi-Band Multi-Mode Software Defined Radio  | Dr. Willie Thompson,<br>Samuel Berhanu, Jan-Paul Alleyne                             |
| <b>057/2019</b>             | Framework for Cross-Modal Image Retrieval Based on Automatic Caption and Concept Generation Using Deep Learning | Dr. Md Mahmudur Rahman   |
| <b>060/2019</b>             | Interface Between Traffic Light Optimization Algorithm and Driving Simulator                                    | Dr. Md Mahmudur Rahman   |
| <b>076/2019</b>             | Optimal Automated Demand Responsive Feeder Transit Operation Method   | Young-Jae Lee, Amirreza Nickkar  |
| <b>078/2019</b>             | Method to Merge Datasets Space and Time Variables   | Dr. Mansoureh Jeihani,<br>Snehanshu Banerjee, Mahmoud<br>Ayman Sayed                 |
| <b>080/2019</b>             | A Multipurpose Adaptive Eco-Driving System Applicable to Driving Simulators                                     | Dr. Mansoureh Jeihani, Samira<br>Ahangari, Zohreh Maghaddam                          |
| <b>089/2020</b>             | Distracted Driving Recognition Model Using Learning Machine   | Dr. Mansoureh Jeihani, Samira<br>Ahangari, Abdollah Dehzangi,<br>Arsalan Hassan Pour |
| <b>100/2020</b>             | Safety Applications for Work Zones  | Dr. Mansoureh Jeihani, Nasid<br>Khadem, Md. Muhib Kabir                              |
| <b>103/2020</b>             | Adaptive OFDM for Aeronautical Channels   | Dr. Richard Dean, Tasmeeer Alam  |
| <b>106/2020</b>             | Peak-to-Average Power Ratio (PAPR) Reduction to OFDM  | Dr. Richard Dean   |
| <b>118/2021</b>             | Optimal Integrated Single Framework for Multi-Level School Bus Network  | Young-Jae Lee, Amirreza Nickkar  |
| <b>119/2021</b>             | Integrated Automated Wheelchair and Adapted Automated Vehicle System  | Dr. Mansoureh Jeihani, Dr. Kofi<br>Nyarko, Anam Ardeshiri,<br>Eazaz Sadeghvaziri     |
| <b>138/2022</b>             | Image Deblurring Using a Multi-Layer LSTM Network   | Dr. Arlene Cole-Rhodes   |