|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Topology (c) | | | | | | Topology (f) | | | | | |
| **UWB**  **models** | **Scattered** | | **LLRMA** | | **LWLR** | | **Scattered** | | **LLRMA** | | **LWLR** | |
| ML Regression | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) |
| DT | 10.219 | 0.014 | 1.303 | 0.014 | 1.081 | 0.009 | 10.200 | 0.012 | 0.930 | 0.010 | 0.868 | 0.010 |
| RF | 6.303 | 0.643 | 0.481 | 0.551 | 0.311 | 0.492 | 6.289 | 0.578 | 0.551 | 0.512 | 0.334 | 0.486 |
| XGB | 6.884 | 0.219 | 1.087 | 0.245 | 0.844 | 0.254 | 6.611 | 0.225 | 1.074 | 0.209 | 0.835 | 0.202 |
| LR | 6.349 | 0.004 | 1.387 | 0.005 | 1.209 | 0.003 | 6.469 | 0.003 | 1.732 | 0.003 | 1.489 | 0.003 |
| KNN | 5.710 | 0.007 | 0.355 | 0.005 | 0.219 | 0.005 | 5.684 | 0.007 | 0.348 | 0.004 | 0.220 | 0.004 |
|  | Topology (c) | | | | | | Topology (f) | | | | | |
| **MICS**  **models** | **Scattered** | | **LLRMA** | | **LWLR** | | **Scattered** | | **LLRMA** | | **LWLR** | |
| ML Regression | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) | RMSE  (mm) | Time  (s) |
| DT | 33.935 | 0.013 | 2.487 | 0.011 | 2.271 | 0.011 | 32.629 | 0.016 | 2.617 | 0.011 | 1.824 | 0.011 |
| RF | 24.205 | 0.593 | 1.358 | 0.526 | 0.915 | 0.537 | 23.073 | 0.675 | 1.326 | 0.551 | 0.933 | 0.557 |
| XGB | 25.587 | 0.216 | 2.028 | 0.209 | 1.661 | 0.232 | 24.734 | 0.249 | 1.895 | 0.239 | 1.499 | 0.249 |
| LR | 23.413 | 0.004 | 5.558 | 0.003 | 7.854 | 0.004 | 22.661 | 0.005 | 5.367 | 0.004 | 6.968 | 0.004 |
| KNN | 25.633 | 0.009 | 0.524 | 0.005 | 0.245 | 0.005 | 24.522 | 0.009 | 0.499 | 0.005 | 0.277 | 0.005 |

**Table:** Sensor 8 Results Comparison