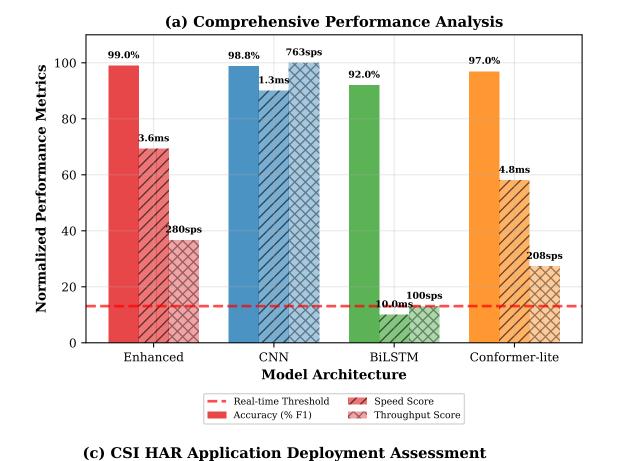
## Optimized IoT Deployment Feasibility Analysis for WiFi CSI HAR Systems\nIntegrated Performance, Efficiency, and Practical Deployment Assessment





 $\blacksquare$  0.0

Excellent

Conformer-lite -

## (b) Technical Specifications & Deployment Status

|   | Model P       | arameters\n(F | Memory\n(MB | Latency\n(㎡왕) | roughput\n(s <sub>]</sub> | Status        |    |
|---|---------------|---------------|-------------|---------------|---------------------------|---------------|----|
|   | Enhanced      | 439K          | 2.7MB       | 3.57ms        | 280sps <b>Pr</b>          | oduction\nRea | dy |
|   | CNN           | 37K           | 2.0MB       | 1.31ms        | 763sps <b>Pr</b>          | oduction\nRea | dy |
|   | BiLSTM        | 583K          | 7.0MB       | 10.04ms       | 100sps                    | IoT\nSuitable |    |
| C | onformer\nlit | e 520K        | 3.2MB       | 4.80ms        | 208sps                    | IoT\nReady    |    |

## (d) Multi-Dimensional Resource Efficiency Profile Speed

