

# COMP9336 Mobile Data Networking - Lab 3

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## Indoor

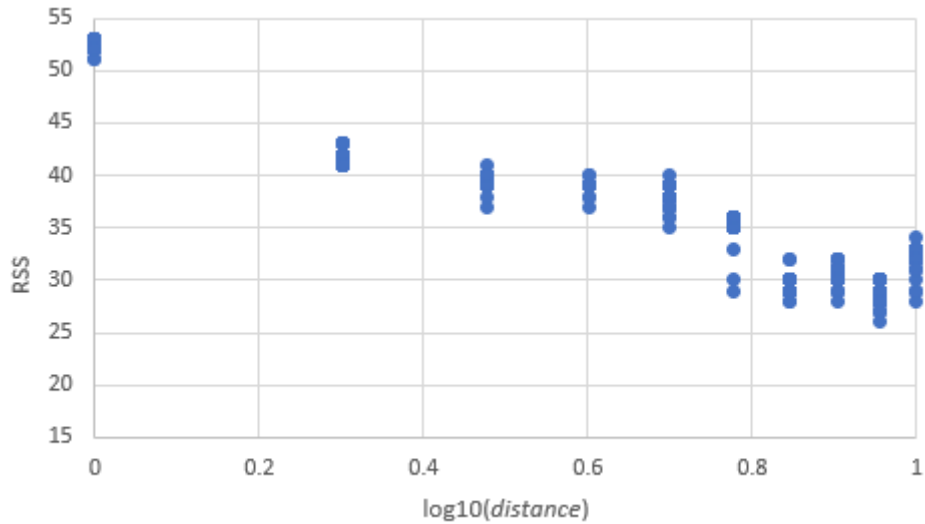


Figure 1. raw RSS at different  $\log_{10}(\text{distance})$  for indoor

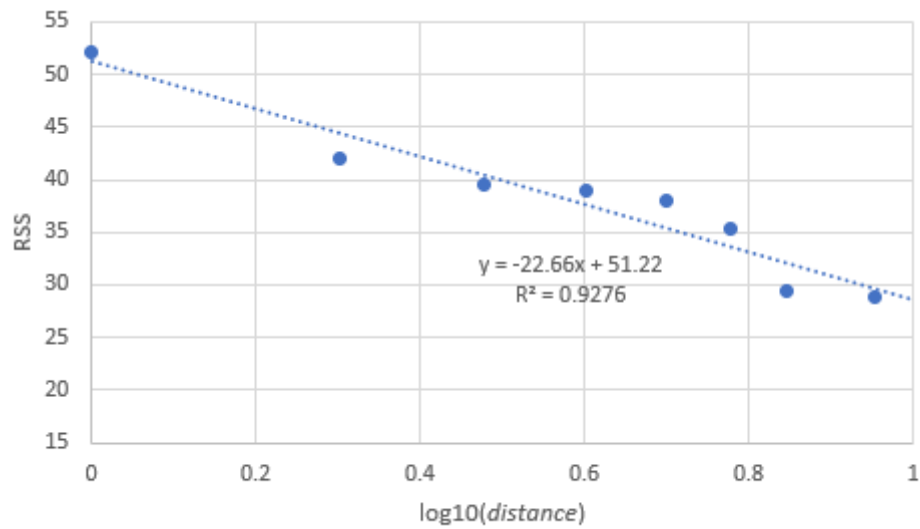


Figure 2. average RSS at different  $\log_{10}(\text{distance})$  with line fit for indoor

## Outdoor

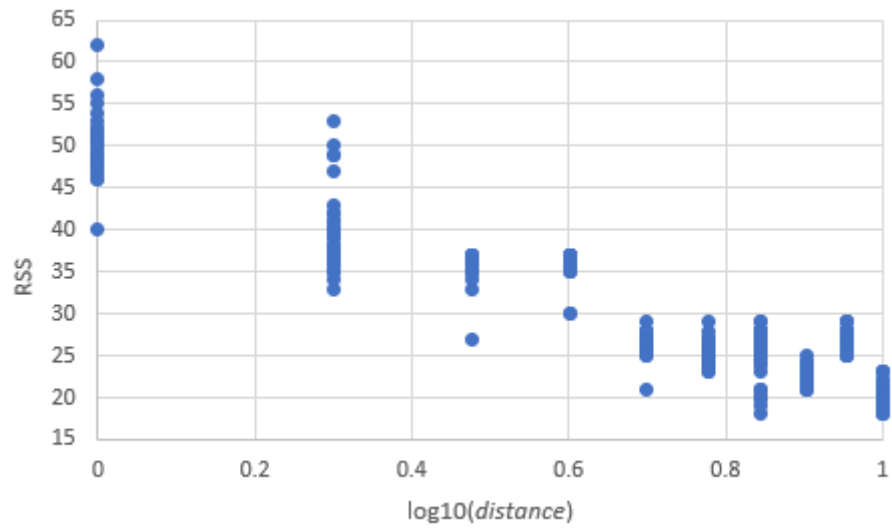


Figure 3. raw RSS at different  $\log_{10}(\text{distance})$  for outdoor

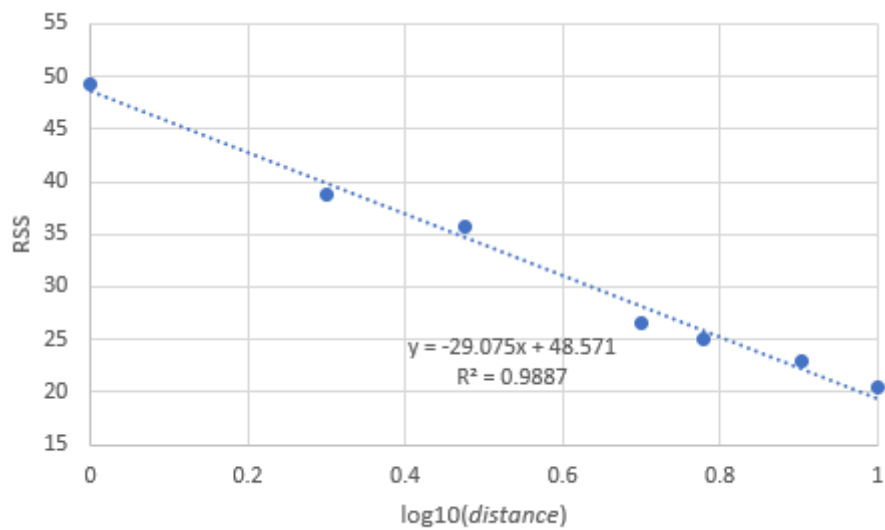


Figure 4. average RSS at different  $\log_{10}(\text{distance})$  with line fit for outdoor

Through comparing Figure 2 and Figure 4, I find that the overall RSS trend for both indoor and outdoor is downward with the increasing distance between the hotspot and the computer, while the outdoor path loss exponent is larger than indoor. This is because the outdoor space is more open and there are no reflectors.