程序代写代做 CS编程辅导

COMP933c Nobile Data Networking www.cse.unsw.edu.au/~cs9336 or ~cs4336 WeChat: cstutorcs

Wiffing Project Frankling

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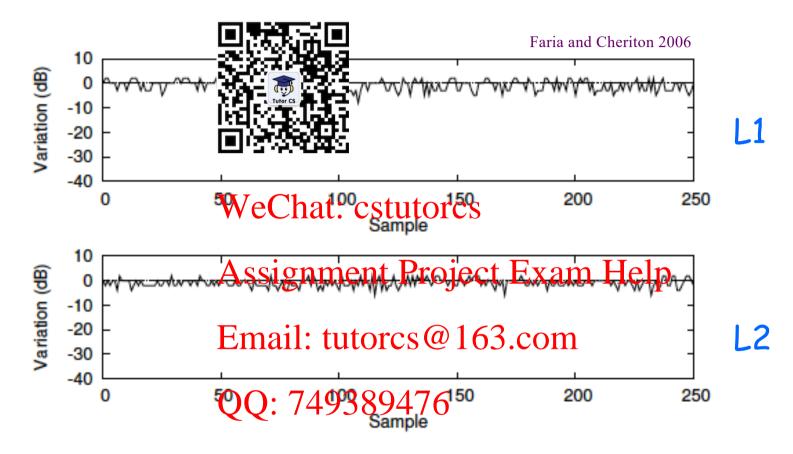
QQ: 749389476

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Adapted from Faria and Cheriton 2006

- Received signalia mely location-specific
 - dependence on the and obstacles
- Multipath structurenistuniquents every location
 - considered a fingerprint or signature of the location
- Create fingerphisignment Project Example printerest
- Received signal Emmentaherts gainst contabase
 - to identify location of the transmitted signal QQ: 749389476

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In most cases, for a given location the median value (median shown as '0')

L1 could be differentiated from L2 using a **single** WiFi AP if the **RSSI medians** were 10dB apart in this case

Why a single程序试图 is鄉祖輔明dequate?

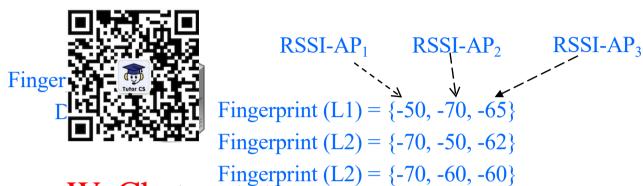
- In the previous 15 1 1 2 1 and L2 could not be always separated if the State SSIs were less than say 5dB
- A single WiFi AP therefore cannot provide high-resolution localization with Watuestytores
- What if the mobile device can hear from multiple WiFi APs? Assignment Project Exam Help

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Basic WiFi Fingerprinting Example 程序代写代做 es编程辅导



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Location 1

Location 2

Location 3

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- **Vector** of RSSIs
- One RSSI for each AP
- Vector length could be variable

Median RSSI for AP3 is within 5dB for all three locations, yet the vector of three APs provide unique WiFi fingerprint for these locations!

A basic algorithm for identifying locations with WiFi fingerprint

- 2. Compare the Teal-Time fingerprint with each signature in the chatabases (PSSI differences in vector elements)
- 3. Attach a score is each comparison (humber of elements differed less than 163 dBm)
- 4. Maximum match = signature with max score QQ: 749389476

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程序代写代做 CS编程辅导 Xample

- locations
- 2 signatures in 1 tabase for two different
 - $S1 = \{-50, -70, 45\}$ and $S2 = \{-40, -70, -35\}$
- Real-time fingerprint of a mobile = {-44,-66,-34}
- Assuming a Assignment Project Exam Helpd for real environments: tutores@163.com
 - Score for S1 = 1, and
 - Score for SQQ: 749389476
- Maximum match is with location 2 (s2)
- The client positioning is predicted as 'location 2'