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**Shih et al.**

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(54) **MOBILE COMMUNICATION SYSTEMS AND DEVICES, AND METHOD FOR AN EVENT-TRIGGERED MEASUREMENT REPORT**

(58) **Field of Classification Search**  
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(Continued)

(71) Applicant: **Industrial Technology Research Institute, Hsinchu (TW)**

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(72) Inventors: **Ying-Ju Shih, Hsinchu (TW); Yi-Bing Lin, Hsinchu County (TW)**

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(73) Assignee: **INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, Hsinchu (TW)**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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*Primary Examiner* — Brenda H Pham

**Related U.S. Application Data**

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(57) **ABSTRACT**

(30) **Foreign Application Priority Data**

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A mobile communication system including a base station, a WLAN AP, and a mobile communication device is provided. The base station transmits a first measurement configuration including a first threshold value and a second threshold value which is less than the first threshold value. The WLAN AP is configured with a serving AP ID and a neighboring AP ID. The mobile communication device connects to the WLAN AP with the serving AP ID, measures a first signal strength of the WLAN AP with the serving AP ID according to the first measurement configuration, measures a second signal strength of the WLAN AP with the neighboring AP ID according to the first measurement configuration, and transmits a first measurement report to the base station when the first signal strength is less than the first threshold value and the second signal strength is greater than the second threshold value.

(51) **Int. Cl.**

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**H04W 28/02** (2009.01)  
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**H04W 84/12** (2009.01)

(52) **U.S. Cl.**

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**34 Claims, 7 Drawing Sheets**

