Reviewer's report

Title: A Cloud Computing Based 12-Lead ECG Telemedicine Service

Version: 1 Date: 27 May 2012

Reviewer: Tan-Hsu Tan

Reviewer's report:

This paper employs cloud computing and mobile communication technologies to realize a ubiquitous 12-lead ECG telemedicine service. The proposed service supports ubiquitous delivery and interpretation of inter-hospital 12-lead ECG reports via cell phones. It is able to offer tele-consultation for patient anytime and anywhere, and therefore, can significantly improve medical service quality and efficiency and particularly benefit patients in rural areas. This service has been evaluated and demonstrated its effectiveness by cardiologists in Taiwan.

The paper is well written and well organized. This paper is recommended to be accepted if the following minor revision can be made.

1. Please change “we have design” to “we have designed” in line 2, page 9.
2. Please change “a detail 12-lead” to “a detailed 12-lead” in line 2 of Section 3.1, page 10.
3. Please change “or emergency tele-consultation is on” to “or emergency tele-consultation that is on” in line 4 of page 11.
4. How do you measure the average time for browsing an ECG report in Section 3.2 (page 11)? What tool do you employ?
5. In Section 3.2, what is the specification of the mobile phone used in the experiment? Is the mobile phone capable of data encryption and decryption in real time? Please explain this in detail.
6. As stated in Section 3.3 (page 12), Fig. 8 is a categorized ECG. Please describe what categorization method has been considered with cited papers.
7. Quality of some figures is not good enough, please refine them.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare that I have no competing interests.