

## Accepted Manuscript

Simulation framework of ubiquitous network environments for designing diverse network robots

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PII: S0167-739X(16)30060-7

DOI: <http://dx.doi.org/10.1016/j.future.2016.03.016>

Reference: FUTURE 2990

To appear in: *Future Generation Computer Systems*

Received date: 4 October 2015

Revised date: 29 February 2016

Accepted date: 23 March 2016



Please cite this article as: S. Cho, S. Fong, Y.W. Park, K. Cho, Simulation framework of ubiquitous network environments for designing diverse network robots, *Future Generation Computer Systems* (2016), <http://dx.doi.org/10.1016/j.future.2016.03.016>

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**Highlights**

- We proposed a framework to simulate a network robot in a virtual smart home.
  - A network robot agent identifies daily routines of a resident and executes service.
  - The framework shows a network robot could help and reduce tasks of a human agent.
  - The simulator verified the framework reduces costs of developing network robots.
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