

## International Journal of Smart Home

---

July 2007 Printed  
July 2007 Published

Publisher: SERSC  
Publishing office: Science and Engineering Research Support Center  
402, Manje Building, 448-9,  
Ojeong-Dong, Daedeok-gu, Daejeon, Korea  
E-mail : [ijsh@sersc.org](mailto:ijsh@sersc.org)  
Tel : +82-42-624-2265, Fax: +82-42-624-2205

Printing office: Young-il  
Tel : +82-11-407-9969

---

This work is subject to copyright. All rights are reserved, whether whole or part of the material is concerned, specifically the rights of translation, reprinting, re-use of illustrations, recitation, broadcasting, reproduction on microfilms or in any other way, and storage in data banks. Duplication of this publication or parts thereof is permitted only under the provisions of the Korea Copyright Law of May 23, 2003, and permission for use must always be obtained from Science & Engineering Research Support Center. Violations are liable to prosecution under the Korea Copyright Law