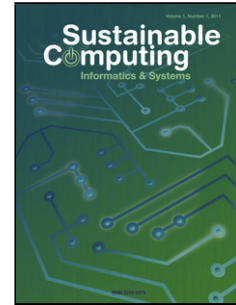


## Accepted Manuscript



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**Highlights:**

- New collaborative proxying system has been proposed.
- Proposed system overcome limitations of previous works in literature.
- A home gateway proxy is proposed with basic proxying features.
- Design of UPnP communication framework presented.
- GDOI based communication security mechanism presented.
- Implementation guideline provided for proposed system.
- Practical evaluation validated the effectiveness of proposed system.

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