

Web of Science



Search Search Results

Tools Searches and alerts Search History Marked List



Save to EndNote online

Add to Marked List

1 of 1

Comparison between NFC/RFID and Bar Code Systems for Halal Tags Identification: Paired Sample T-Test Evaluation

by: [Khosravi, M \(Khosravi, Mousen\)](#)^[1]; [Ali, NI \(Ali, Najma Imtiaz\)](#)^[1]; [Karbasi, M \(Karbasi, Mostafa\)](#)^[2]; [Brohi, IA \(Brohi, Imtiaz Ali\)](#)^[1]; [Shaikh, IA \(Shaikh, Irfan Ahmed\)](#)^[3]; [Shah, A \(Shah, Asadullah\)](#)^[1]

[View ResearcherID and ORCID](#)

INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS

Volume: 9 Issue: 4 Pages: 221-229

Published: APR 2018

Document Type: Article

Abstract

Malaysia is a modern Muslim country where the research on Halal product identification is at the peak. In this study, the authors have developed the mobile application which is based on Radio frequency identification near field communication RFID/NFC. The author first developed the database based on the data from Jabatan Kemajuan Islam Malaysia JAKIM, which is Malaysian Halal logo identification authority then the mobile application which uses the Near Field Communication to detect the Halal food using the Radio Frequency Identification. In this paper authors have performed the experimental analysis by comparing the Barcode system that is comprised of parallel line detected by the simple webcam for the Halal logo identification and the new developed RFID NFC mobile application. Paired sample T-Test was performed by using the SPSS 23.0 version. The results revealed that there is significantly difference between the usability, efficiency, affordability, security and satisfaction. The users are more satisfied with the newly developed mobile application as compared to old halal logo system in Malaysia.

Keywords

Author Keywords: [Halal products](#); [RFID/NFC](#); [JAKIM](#); [paired sample T-test](#); [Malaysia](#)

Author Information

Reprint Address: [Khosravi, M \(reprint author\)](#)

+ [Int Islamic Univ Malaysia, KICT, Dept Informat Syst, Kuala Lumpur, Malaysia.](#)

Addresses:

+ [1] [Int Islamic Univ Malaysia, KICT, Dept Informat Syst, Kuala Lumpur, Malaysia](#)

[2] [Univ Ghiaseddin Jamshed Kashani, Tehran, Iran](#)

+ [3] [Univ Sindh, Jamshoro, Pakistan](#)

Publisher

SCIENCE & INFORMATION SAI ORGANIZATION LTD, 19 BOLLING RD, BRADFORD, WEST YORKSHIRE, 00000, ENGLAND

Categories / Classification

Research Areas: [Computer Science](#)

Web of Science Categories: [Computer Science](#), [Theory & Methods](#)

[See more data fields](#)

1 of 1

Citation Network

In Web of Science Core Collection

0

Times Cited

[Create Citation Alert](#)

24

Cited References

[View Related Records](#)

Use in Web of Science

Web of Science Usage Count

0

Last 180 Days

0

Since 2013

[Learn more](#)

This record is from:

Web of Science Core Collection
- Emerging Sources Citation Index

Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

Cited References: 24

Showing 24 of 24 [View All in Cited References page](#)

(from Web of Science Core Collection)

1. [Issues in halal packaging: a conceptual paper](#)

Times Cited: 17

By: Ab Talib, M. S.; Johan, M. R. Mohd.

International Business and Management Volume: 5 Issue: 2 Pages: 94-98 Published: 2012

URL: <http://dx.doi.org/10.3968%2Fj.ibm.1923842820120502.1080>

2. **RFID applications: An introductory and exploratory study** Times Cited: 1
 By: Ahsan, Kamran; Shah, Hanifa; Kingston, Paul.
 arXiv preprint arXiv: 1002. 1179 Published: 2010
3. **Online Shopping Satisfaction in Malaysia: A Framework for Security, Trust and Cybercrime** Times Cited: 2
 By: Ali, Najma Imtiaz; Samsuri, Suhaila; Sadry, Muhamad; et al.
 2016 6TH INTERNATIONAL CONFERENCE ON INFORMATION AND COMMUNICATION TECHNOLOGY FOR THE MUSLIM WORLD (ICT4M) Book Series:
 International Conference on Information and Communication Technology for the Muslim World Pages: 194-198 Published: 2016
4. Title: [not available] Times Cited: 1
 By: [Anonymous].
 Techopedia Published: 2017
 Publisher: Information Systems Security (INFOSEC)
 URL: <https://www.techopedia.com/definition/24840/information-systems-security-infosec>
5. **Tracking and tracing technology for halal product integrity over the supply chain** Times Cited: 4
 By: Bahrudin, Siti Sarah Mohd; Illyas, Mohd Iskandar; Desa, Mohamad Ishak.
 INT C EL ENG INF ICE Pages: 1-7 Published: 2011
6. **Prototypical implementation of location-aware services based on super-distributed RFID tags** Times Cited: 6
 By: Bohn, J
 ARCHITECTURE OF COMPUTING SYSTEMS - ARCS 2006, PROCEEDINGS Book Series: LECTURE NOTES IN COMPUTER SCIENCE Volume: 3894
 Pages: 69-83 Published: 2006
7. **Near field communication enabled payment system adoption: A proposed framework** Times Cited: 1
 By: Brohi, I. A.
 2017 IEEE 3 INT C EN Pages: 1-5 Published: 2017
8. Title: [not available] Times Cited: 12,353
 By: CRONBACH LJ
 PSYCHOMETRICA Volume: 16 Pages: 297 Published: 1951
9. **Privacy concerns and online purchasing behaviour: Towards an integrated model** Times Cited: 6
 By: Fortes, Nuno; Rita, Paulo
 EUROPEAN RESEARCH ON MANAGEMENT AND BUSINESS ECONOMICS Volume: 22 Issue: 3 Pages: 167-176 Published: SEP-DEC 2016
10. **Survival Manual. Training Impact of brand Image, service quality and price on customer satisfaction in Pakistan telecommunication sector** Times Cited: 1
 By: Julie, P.
 International Journal of Business and Social Science Volume: 3 Issue: 23 Pages: 123-130 Published: 2011
11. Title: [not available] Times Cited: 1
 By: Julie, P.
 SPSS Survival Manual. Training Published: 2011
12. Title: [not available] Times Cited: 1
 By: Khairudin, N. E. Z.
 Bte. Halal Food Recognition System Using Barcode Nor Emilia Zetfy Bte Khairudin Report Submitted In Partial Fulfilment Of The Requirements For
 The Award Of the degree of Bachelor of Computer Sciences Published: 2010
 Publisher: (Software Engineering) Faculty of Computer System & Softwa
13. **Halal Products Recognition Using Rfid/ Nfc Technology** Times Cited: 1
 By: Khosravi, M.
 Sci. Int. Volume: 29 Pages: 687-692 Published: 2017
14. **An Adoption of Halal Food Recognition System Using Mobile Radio Frequency Identification (RFID) and Near Field Communication (NFC)** Times Cited: 1

By: Khosravi, Mohsen; Karbasi, Mostafa; Shah, Asadullah; et al.

2016 6TH INTERNATIONAL CONFERENCE ON INFORMATION AND COMMUNICATION TECHNOLOGY FOR THE MUSLIM WORLD (ICT4M) Book Series:
International Conference on Information and Communication Technology for the Muslim World Pages: 70-75 Published: 2016

15. **Impact of brand image, service quality and price on customer satisfaction in Pakistan telecommunication sector** Times Cited: 4
By: Malik, M.E.; Ghafoor, M.M.; Hafiz, K.I.
International Journal of Business and Social Science Volume: 3 Issue: 23 Pages: 123-129 Published: 2012
16. **An RFID-Based Validation System for Halal Food** Times Cited: 13
By: Nasir, Mohd; Norman, Azah; Fauzi, Shukor; et al.
INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY Volume: 8 Issue: 2 Pages: 204-211 Published: APR 2011
17. Title: [not available] Times Cited: 3
By: Neilson, J.
Usability 101: Introduction to Usability Published: 2012
URL: <https://www.nngroup.com/articles/usability-101-introduction-to-usability/>
18. Title: [not available] Times Cited: 22,139
By: Nunnally, J.
Psychometric Theory Published: 1978
Publisher: McGraw-Hill, New York
19. Title: [not available] Times Cited: 1
By: Ross, A.; Willson, V. L.
Basic and advanced statistical tests Published: 2017
20. **A Design and Development Methodology for Mobile RFID Applications based on the ID-Services Middleware Architecture** Times Cited: 4
By: Schwieren, Joachim; Vossen, Gottfried
MDM: 2009 10TH INTERNATIONAL CONFERENCE ON MOBILE DATA MANAGEMENT Pages: 260-266 Published: 2009
21. Title: [not available] Times Cited: 1
Group Author(s): Simon and Schuster
Webster's New World Dictionary Published: 1982
Second College Edition
22. **Factors influencing ICT adoption in halal transportations: A case study of Malaysian halal logistics service providers** Times Cited: 9
By: Tan, Mohd Iskandar Illyas; Razali, Raziah Noor; Desa, Mohammad Ishak.
International Journal of Computer Science Issues Volume: 9 Issue: 1 Pages: 62-71 Published: 2012
others International Journal of Computer Science Issues (IJCSI)
23. **Making sense of Cronbach's alpha** Times Cited: 1,323
By: Tavakol, Mohsen; Dennick, Reg
INTERNATIONAL JOURNAL OF MEDICAL EDUCATION Volume: 2 Pages: 53-55 Published: 2011
24. Title: [not available] Times Cited: 1
By: Webster, M.
Definition of efficiency Published: 2018
URL: <https://www.merriam-webster.com/dictionary/efficiency>

Showing 24 of 24 [View All in Cited References page](#)

Clarivate

Accelerating innovation

© 2019 Clarivate [Copyright notice](#) [Terms of use](#) [Privacy statement](#) [Cookie policy](#)

Sign up for the Web of Science newsletter [Follow us](#)

