

Export...

Add to Marked List

◀ 1 of 1 ▶

Factors Affecting Secure Software Development Practices Among Developers - An Investigation

By: [Maher, ZA](#) (Maher, Zulfikar Ahmed)^[1,2]; [Shaikh, H](#) (Shaikh, Humaiz)^[1]; [Khan, MS](#) (Khan, Mohammad Shadab)^[1]; [Arbaeen, A](#) (Arbaeen, Ammar)^[1]; [Shah, A](#) (Shah, Asadullah)^[1]

2018 5TH IEEE INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGIES AND APPLIED SCIENCES (IEEE ICETAS)

Book Group Author(s): [IEEE](#)

Published: 2018

Document Type: Proceedings Paper

Conference

Conference: 5th IEEE International Conference on Engineering Technologies and Applied Sciences (IEEE ICETAS)

Location: Bangkok, THAILAND

Date: NOV 22-23, 2018

Sponsor(s): IEEE; IEEE IIUM Student Branch; ETSS Management

Abstract

An evidently dominant problem in the software development domain is that software security is not consistently addressed from the initial phase of software development which escalates security concerns, results in insecure software development. Several secure software development methodologies were introduced in literature and recommended to the industry but they are usually ignored by the developers and software practitioners. In this research paper, an extensive literature review is performed to find out factors influencing implementation of secure software development practices in industry. Secondly, Based on Unified Theory of Acceptance and Use of Technology model 2 (UTAUT2), this study proposes a model to investigate the factors influencing adoption of secure software development practices among software developers.

Keywords

Author Keywords: [behavioral intention](#); [secure software development](#); [software security](#); [UTAUT2](#); [influencing factors](#)

Author Information

Reprint Address: [Shah, A](#) (reprint author)

[+](#) [Int Islamic Univ Malaysia, Fac Informat & Commun Technol, Kuala Lumpur, Malaysia.](#)

Addresses:

[+](#) [\[1 \] Int Islamic Univ Malaysia, Fac Informat & Commun Technol, Kuala Lumpur, Malaysia](#)

[+](#) [\[2 \] Sindh Agr Univ, Informat Technol Ctr, Tandojam, Pakistan](#)

E-mail Addresses: zamaher@gmail.com; humaiz_shaikh@hotmail.com; mshadab_k@yahoo.co.in; moor010@hotmail.com; asadullah@iium.edu.my

Publisher

IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA

Categories / Classification

Research Areas: Computer Science; Engineering

Web of Science Categories: Computer Science, Theory & Methods; Engineering, Electrical & Electronic

[See more data fields](#)

◀ 1 of 1 ▶

Citation Network

In Web of Science Core Collection

0

Times Cited

[Create Citation Alert](#)

20

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

- Conference Proceedings Citation Index-Science

[Suggest a correction](#)

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

Cited References: 20

Showing 20 of 20 [View All in Cited References page](#)

(from Web of Science Core Collection)

1. **Remote access of SCADA with online video streaming** Times Cited: 1
 By: Ahmed, Syed Faiz.
 COMP SCI ED ICCSE 20 Published: 2013
 Publisher: IEEE
2. **SCRISTUDIO: A security pattern integration tool** Times Cited: 1
 By: Bouaziz, R.; Kammoun, S.
 INF TECHN ORG DEV IT Pages: 1-6 Published: 2016
3. **Towards a Better Integration of Patterns in Secure Component-Based Systems Design** Times Cited: 6
 By: Bouaziz, Rahma; Hamid, Brahim; Desnos, Nicolas
 COMPUTATIONAL SCIENCE AND ITS APPLICATIONS - ICCSA 2011, PT V Book Series: Lecture Notes in Computer Science Volume: 6786 Pages: 607-621 Published: 2011
4. **Security Patterns and a Methodology to Apply them** Times Cited: 10
 By: Fernandez, Eduardo B.
 SECURITY AND DEPENDABILITY FOR AMBIENT INTELLIGENCE Book Series: Advances in Information Security Volume: 45 Pages: 37-46
 Published: 2009
5. **clasp: A conflict-driven answer set solver** Times Cited: 105
 By: Gebser, Martin; Kaufmann, Benjamin; Neumann, Andre; et al.
 LOGIC PROGRAMMING AND NONMONOTONIC REASONING, PROCEEDINGS Book Series: Lecture Notes in Computer Science Volume: 4483 Pages: 260-+ Published: 2007
6. **Are Companies Actually Using Secure Development Life Cycles?** Times Cited: 8
 By: Geer, David
 COMPUTER Volume: 43 Issue: 6 Pages: 12-16 Published: JUN 2010
7. Title: [not available] Times Cited: 15
 By: Howard, M.; Lipner, S.
 The security development lifecycle Published: 2009
 Publisher: O'Reilly Media, Incorporated
8. Title: [not available] Times Cited: 1
 By: Kanniah, S. L.; Mahrin, M. N. R.
 A Review on Factors Influencing Implementation of Secure Software Development Practices
9. **Secure Software Development Practice Adoption Model: A Delphi Study** Times Cited: 1
 By: Kanniah, S. L.; Mahrin, M. N. R.
 Journal of Telecommunication, Electronic and Computer Engineering (JTEC) Volume: 10 Pages: 71-75 Published: 2018
10. **TESEM: A Tool for Verifying Security Design Pattern Applications by Model Testing** Times Cited: 2
 By: Kobashi, T.; Yoshizawa, M.; Washizaki, H.; et al.
 STUD NAT PROD CHEM Pages: 1-8 Published: 2015
[\[Show additional data\]](#)
11. **Designing system security with UML misuse deployment diagrams** Times Cited: 2
 By: Lincke, S.J.; Knautz, T.H.; Lowery, M.D.
 2012 International Conference on Software Security and Reliability Companion Pages: 57-61 Published: 2012
12. **SecureUML: a UML-based modeling language for model-driven security** Times Cited: 174
 By: Lodderstedt, T.; Basin, D.; Doser, J.
 LNCS Volume: 2460 Pages: 426-441 Published: 2002
 Publisher: Springer, Heidelberg
13. Title: [not available] Times Cited: 26
 By: McGraw, G.