

 Look Up Full Text

Full Text from Publisher

 Find PDF

 Export...

Add to Marked List

1 of 4

## The relationship between personality and decision-making: A Systematic literature review

By: Mendes, FF (Mendes, Fabiana Freitas)<sup>[1,2]</sup>; Mendes, E (Mendes, Emilia)<sup>[1]</sup>; Salleh, N (Salleh, Norsaremah)<sup>[3]</sup>

### INFORMATION AND SOFTWARE TECHNOLOGY

Volume: 111 Pages: 50-71

DOI: 10.1016/j.infsof.2019.03.010

Published: JUL 2019

Document Type: Review

[View Journal Impact](#)

### Abstract

Context: From a point of view, software development is a set of decisions that need to be made while the software is developed. Many alternatives should be considered, such as the technology to employ, or the most important features to implement. However, many factors can influence one's decision-making, such as the decision maker's personality.

Objective: This paper reports the state of the art with regard to the relationship between decision-makers' personality and decision-making aspects.

Method: We conducted a Systematic Literature Review to search and analyze published primary studies that discuss the abovementioned relationship in the context of companies that develop any kind of product or service.

Results: Despite the recognized influence of personality in decision-making activities, we were not able to find any study in Software Engineering field that discusses this relationship. We included 15 studies and most of them are from Management field, excluding one from Information System field. From these studies, we identified 75 reported relationships between 28 different personality aspects and 30 different decision-making aspects.

Conclusion: The interest in this topic born on 80's and it has grown after 2002. However, despite the number of reported relationships, and the number of personalities and decision-making aspects investigated, more research on this topic is necessary. In particular, it is important to verify how someone's personality influences the decision-making considering the software development context. This can help in improving how a decision is made in software engineering context.


### Keywords

**Author Keywords:** [Decision-Making](#); [Personality](#); [Service or product development](#)


**KeyWords Plus:** [SOFTWARE-DEVELOPMENT](#)

### Author Information


**Reprint Address:** Mendes, FF (reprint author)

 Univ Oulu, Fac Informat Technol & Elect Engr, POB 3000, Oulu 90014, Finland.


**Reprint Address:** Mendes, FF (reprint author)

 Univ Brasilia, Fac UnB Gama, BR-72444240 Brasilia, DF, Brazil.

### Addresses:

 [ 1 ] Univ Oulu, Fac Informat Technol & Elect Engr, POB 3000, Oulu 90014, Finland

 [ 2 ] Univ Brasilia, Fac UnB Gama, BR-72444240 Brasilia, DF, Brazil

 [ 3 ] Int Islamic Univ Malaysia, Dept Comp Sci, POB 10, Kuala Lumpur 50728, Malaysia

**E-mail Addresses:** [fabianamendes@unb.br](mailto:fabianamendes@unb.br); [emilia.mendes@bth.se](mailto:emilia.mendes@bth.se); [norsaremah@iiium.edu.my](mailto:norsaremah@iiium.edu.my)

### Funding

| Funding Agency              | Grant Number |
|-----------------------------|--------------|
| Tekes FiDiPRO VALUE project |              |
| University of Brasilia      |              |

### Citation Network

In Web of Science Core Collection

0

Times Cited

 Create Citation Alert

47

Cited References

[View Related Records](#)

### Use in Web of Science

Web of Science Usage Count

1

Last 180 Days

1

Since 2013

[Learn more](#)

### This record is from:

Web of Science Core Collection  
- Science Citation Index Expanded  
- Social Sciences Citation Index

### Suggest a correction

*If you would like to improve the quality of the data in this record, please suggest a correction.*

[View funding text](#)**Publisher**

ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

**Journal Information**Impact Factor: [Journal Citation Reports](#)**Categories / Classification**

Research Areas: Computer Science

Web of Science Categories: Computer Science, Information Systems; Computer Science, Software Engineering

**See more data fields**

◀ 1 of 4 ▶

**Cited References: 47**Showing 30 of 47 [View All in Cited References page](#)*(from Web of Science Core Collection)*

1. **The personality factor: how top management teams make decisions. A literature review** Times Cited: 19  
By: Abatecola, Gianpaolo; Mandarelli, Gabriele; Poggesi, Sara  
JOURNAL OF MANAGEMENT & GOVERNANCE Volume: 17 Issue: 4 Special Issue: SI Pages: 1073-1100 Published: NOV 2013
2. **Impacts of organizational culture and personality traits on decision-making in technical organizations** Times Cited: 8  
By: Briggs, Clark; Little, Patrick  
SYSTEMS ENGINEERING Volume: 11 Issue: 1 Pages: 15-26 Published: SPR 2008
3. **Decision-making in software engineering** Times Cited: 2  
By: Burge, J. E.; Carroll, J. M.; McCall, R.; et al.  
Rationale-Based Software Engineering Pages: 67-76 Published: 2008  
Publisher: Springer, Berlin, Heidelberg  
[\[Show additional data\]](#)
4. Title: [not available] Times Cited: 10  
By: Burger, J. M.  
Personality, Cengage Learning Published: 2010  
Google-Books-ID: bZY7I2\_8yRMC
5. Title: [not available] Times Cited: 7  
By: Carver, C. S.; Scheier, M. F.  
Perspectives on Personality Published: 2012  
Google-Book-s-ID: CN6KZwEACAAJ  
Publisher: Pearson
6. **Decisions in software development projects management. An exploratory study** Times Cited: 9  
By: Colomo-Palacios, Ricardo; Casado-Lumbreras, Cristina; Soto-Acosta, Pedro; et al.  
BEHAVIOUR & INFORMATION TECHNOLOGY Volume: 32 Issue: 11 Pages: 1077-1085 Published: NOV 1 2013
7. **Cambridge Handbook of Personality Psychology** Times Cited: 36  
Edited by: Corr, PJ; Matthews, G  
CAMBRIDGE HANDBOOK OF PERSONALITY PSYCHOLOGY Pages: 1-850 Published: 2009  
Publisher: CAMBRIDGE UNIV PRESS, THE PITT BUILDING, TRUMPINGTON ST, CAMBRIDGE CB2 1RP, CAMBS, ENGLAND
8. **Forty years of research on personality in software engineering: A mapping study** Times Cited: 42  
By: Cruz, Shirley; da Silva, Fabio Q. B.; Capretz, Luiz Fernando  
COMPUTERS IN HUMAN BEHAVIOR Volume: 46 Pages: 94-113 Published: MAY 2015
9. **Decision-Making in Software Project Management: A Systematic Literature Review** Times Cited: 5  
By: Cunha, Jose Adson O. G.; Moura, Hermano P.; Vasconcellos, Francisco J. S.