

Master Thesis

Collaboration networks in open-source software development

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Abstract

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1 Introduction

In recent years open source software solutions have become widely popular and frequently used in both scientific and enterprise use, which can be attributed to a number of factors, most importantly the ease of development and deployment of IT projects, improved cybersecurity and enhanced scalability [2]. This increases the contribution to open source projects from enterprises and individuals alike. Due to its nature, open source software projects are driven by community contributions, and depend heavily on active participation in all phases of the project. Because there is a high dependency on the community in open source software projects, by understanding how contributions are included and what patterns emerge we can gain valuable insight into the project's current state and its trajectory.

1.1 Motivation of research problem and research question

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1.2 Literature review

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2 Proposed research method

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Table 1: Example of a table

| | | | | |
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| 1 | a | - | - | - |
| 2 | b | - | - | - |
| 3 | c | - | - | - |
| 4 | d | - | - | - |

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3 Outline of thesis

3.1 Preliminary literature list

3.2 Work plan including milestones

Table 1 is an example of a table.

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“This is a direct quote.” [1]

References

- [1] Christoph Gote, Ingo Scholtes, and Frank Schweitzer. Analysing Time-Stamped Co-Editing Networks in Software Development Teams using git2net. *arXiv:1911.09484 [physics]*, November 2019.
- [2] PwC. Leading benefits of open-source software among enterprises worldwide as of 2016. *Statista*, 2016.
- [3] Vedran Sekara, Arkadiusz Stopczynski, and Sune Lehmann. Fundamental structures of dynamic social networks. *Proceedings of the National Academy of Sciences*, 113(36):9977–9982, September 2016.