

Paper Reviews

Improving PSP education by pairing: An empirical study

- Paper Citation

G. Rong, H. Zhang, M. Xie and D. Shao, "Improving PSP education by pairing: An empirical study," *Software Engineering (ICSE), 2012 34th International Conference on*, Zurich, 2012, pp. 1245-1254.

doi: 10.1109/ICSE.2012.6227018

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6227018&isnumber=6227015>

- Summary

This article give a research on comparing how solo and pair student doing PSP course. And the result show that the paired student have better performance than solo student in most of the time studying PSP. The performance include following the course process, the quality of the product, the corrective to describe the issues in the log. But the time to finish the examination is almost the same between paired and solo students.

The author also states that the PSP can give student the developing skills and Paired Programming (PP) should be introduced to PSP course in case of the higher improvement on skills, quality.

- Strengths

This article focus on a special part about PSP: Paired & Solo Programming and give a comparison. The data collected in two years and have a large volume. The result is show in charts, diagrams and graphs and this make the result more convinced.

- Weaknesses

The data collected is just from one university in a specific province of China. This make the data is not stand for all but just Chinese and in a small area of China.

Improving software developer's competence: Is the Personal Software Process Working?

- Paper Citation

Abrahamsson, P., Kautz, K., Sieppi, H., & Lappalainen, J. (2002) Improving software developer's competence: Is the Personal Software Process Working? Presented at Workshop on Empirical

Cite as: [arXiv:1311.0228](https://arxiv.org/abs/1311.0228) [cs.SE]

- Summary

The article give some useful opinion: 1) The PSP is an well know technique to improve software process in individual and will secure the quality. 2) PSP aim to make the software engineering project more predictable and in good quality.

The article give a research about 58 students in 3 different university studying PSP. And result shows that only compile is significant improved. Author conclude this result as PSP can't significant increase the software engineer's size and time estimation skills but can improve the quality of the product.

- Strengths

This article use the real research and data to conclude a result that can make people convinced. Using graph and chart to support its opinion make the result can be clearly seen.

- Weaknesses

The research data is too small, 58 students is not an appropriate data source even though the students are from three different universities.

- Other comments (optional)

This article's result can be partly believed, even though the data source is in a small volume but still got some evident to proof that the PSP have benefit to the Software Engineer but not so significant.

The dark side of agile software development

- **Paper Citation**

SCHRAML, T. The Dark Side of Agile Development. Database Trends & Applications. 29, 5, 29, Oct. 2015. ISSN: 15479897.

Authors: [Schraml, Todd](#) TWSchraml@gmail.com

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- **Summary**

This article mainly talk about the Agile Methodology. It have come up with an idea that what people think about agile is wrong. Agile is not just do it without other things and finish before the final due date. This idea can side prove that the Personal Software Process is important. Another thing is that Agile Methodology is not perfect, it has disadvantage. What is more, the NoAgile have an attribute that often ignored by not only specializing and specialists but also project managers and other people related to project. Author also have mentioned that quality and quick is both what the software engineer are supposed to do.

- **Strengths**

Clearly state what the disadvantage of Agile Methodology and point out that some software engineer just look at the speed of finishing the project but not the quality of the project. They see meeting the date as a success.

- **Weaknesses**

The article should have a background about what Agile Methodology is and what it works like. For people who have no idea about it will confuse when first reading the article and it will be a barrier for understanding.

The Personal Software Process

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- *Paper Citation*

W. S. Humphrey, "*The Personal Software Process*," Frontiers in Education Conference, 1997. 27th Annual Conference. Teaching and Learning in an Era of Change. Proceedings., *Pittsburgh, PA*, 1997, pp. 11 vol.1-.

doi: 10.1109/FIE.1997.644799

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=644799&isnumber=14040>

- *Summary*

Main point of this paper is talking about the importance of Personal Software Process (PSP) and how to let the software engineer realize that the PSP is useful.

PSP is useful for build a good work management and is a way to tell how the engineer performance in the project. PSP is a standard way using a specific process, planning and tracking the work to know how efficient the engineer work.

What is more, the author have given a very convincible idea and it's that we will not use a new method until we have seen how it work for us, how it contribute and help with the project and make the project more easy.

PSP is a good way to plan, manage and control the time. And its benefit is that it can help leaners to come across serious roadblocks. What is more, it also help when software engineer working in the real work.

- *Strengths*

This article give a really good idea that is software engineer is a kind of people who believe what they been through but not what other said about it.

- *Weaknesses*

This article is general about what PSP is and how it works when teaching but not what will it be like in the real work and how it helps the new software engineer.

- *Other comments (optional)*

This is a speech provide by the Carnegie Mellon University, mainly focus on the teaching is what we can predict.