

Training software teams on sustainable software development

From coursework to research projects

Hartwig Anzt^{1,2}, Terry Cojean¹, Fritz Göbel¹, Thomas Grützmacher¹, Pratik Nayak¹, Tobias Ribizel¹, and Yu-Hsiang Tsai¹

¹Karlsruhe Institute of Technology

²Innovative Computing Laboratory

Summary

Below is the copy/pasted slack discussion.

PN: I guess it would include the challenges on writing code for research and how to tackle them by including practical software development (git, CI, PR and so on) in course-work (like we do in the course).

TC: Maybe if you make the paper like, doing this sort of CI based course with peer review allowed to cope with the COVID-19 related regulations (no in place meeting, etc) and still do some form of team building (maybe?).

TC: I guess related to that could be the ongoing PSE project and its dynamics with the external guy able to integrate thanks to using github based PR etc.

PN: [Does the paper match CW21 theme?]

TC: I think it matches as well, if nothing else for the fact that you teach courses mainly to find students to join your team, that's part of team dynamics for me

TC: But also, practical courses such as these are team dynamics themselves I would say, at least that's exactly what your idea is doing. [i.e., it's possible to present this idea as novel: creating a software engineering teams dynamics in an HPC course.]

References