

Energy-aware Co-location of Scientific Workflow Tasks

Niklas Fomin

Distributed and Operating Systems
Technische Universität Berlin
Berlin, Germany
`niklas.fomin@campus.tu-berlin.de`

August 3, 2025

Abstract

Writing a computer science thesis is a considerable challenge for students. In this text, we give some tips and structure to write a great thesis. We will go over the research process in general, finding a topic, writing an exposé, and thesis structure. At the end, we include some tips on researching and writing.

1 Introduction

If you are reading this, you might be about to start a computer science (or *Information Systems Management*, *ICT Innovation*, etc.) thesis at *Technische Universität Berlin*, maybe even at the *Scalable Software Systems* research group. A thesis, whether it is a bachelor's or master's thesis, is essentially a research task that you complete yourself. This can be daunting, but you are not alone: Since completing a thesis is necessary to complete a degree at TUB, you can learn from your previous students' experiences.

[1]

References

- [1] G. Singh, M.-H. Su, K. Vahi, E. Deelman, B. Berriman, J. Good, D. S. Katz, and G. Mehta. "Workflow task clustering for best effort systems with Pegasus". In: *Proceedings of the 15th ACM Mardi Gras Conference: From Lightweight Mash-Ups to Lambda Grids: Understanding the Spectrum of Distributed Computing Requirements, Applications, Tools, Infrastructures, Interoperability, and the Incremental Adoption of Key Capabilities*. MG '08. Baton Rouge, Louisiana, USA: Association for Computing Machinery, 2008. URL: <https://doi.org/10.1145/1341811.1341822>.