Active Learning Observation Networks
Visualizations, analyses and relations to didactic theory
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1. From observation protocols to network maps

Two cameras/classroom set up by teacher

Video recording

Coding scheme

Network transformation

Scheme adapted from COPUS [1]. See handout for example in English

Scheme adapted from [2]. Circles (nodes) represent merged codes per interval.


2. Network maps reveal differences in implemented lesson structure

A new approach to map student and teacher work and improve the understanding of the learning process.

Student-driven teacher-assisted problem solving at the computer

Student-driven teacher-assisted problem solving at the blackboard

Teacher 1

Teacher 2

Same lesson Different context

Teacher 1

Student-driven inquiry

Teacher-driven classroom dialogue

3. Models for active learning in the sciences (based on Lombardi et al 2021 [5])

Teachers in Denmark do not recognise simplified transmissive models [5], but not all subscribe to inquiry-style active learning. “Directed Learning” may be an alternative.

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Selected Literature