

Solar Energy South Africa

State Grid Micro Classroom



Overview

The goal of this study (Mainhard et al., 2012) was to explore the value of SSG for research on the quality of the classroom social climate by comparing classroom interaction in a classroom of a teacher characterized as drudging (Teacher A), that is with according to students a considerably lower agency and.

In another study (Pennings, Brekelmans et al., 2014) we used a different application of SSGs. We did not study the content and structure of dyadic.

This example was adapted from an unpublished study (Pennings et al., 2012). In this study we observed in four teacher-class dyads interpersonal teacher behavior and student.

In a recent study (Pennings et al., 2015) we studied the content, structure, and degree of complementarity in teacher-student interactions during the lesson start of 35 teachers.

What is a state space grid?

The method of state space grids is used in particular in psychology and student-teacher interactions to describe and analyse the interaction between parents and children. (Hollenstein 2013, p. 16). State Space Grids (SSGs for short) are two-dimensional systems. They have two axes that can assume discrete values.

Can state space grids map teacher-student interactions from moment-to-moment?

This paper explores how State Space Grids (SSG), a dynamic systems research method, can be used to map teacher-student interactions from moment-to-moment and thereby to incorporate temporal aspects of interaction.

What is state space grid analysis?

In this chapter an analysis tool, called State Space Grid (SSG) analysis is described. SSG analysis can be used to study social interaction as it occurs in real-time. A SSG is a visual representation of an interaction trajectory between

two (or more) interaction partners (or variables).

What are agency state space grids?

Agency State Space Grids for the two classrooms per lesson. Bordered cells represent the favorable interaction area. The upper panel (a) refers to the classroom of the drudging teacher, the lower panel (b) refers to the classroom with the more positive climate
Communion State Space Grids for the two classrooms per lesson.

What is the state space of teacher and class behavior?

In several studies (i.e., Mainhard et al., 2012; Pennings et al., 2015; Pennings, Van Tartwijk et al., 2014) the state space of teacher and class behavior is comprised of all the possible joint states of agency and communion that teachers and students might adopt in interaction.

What are cell or region measures in Gridware?

To study such areas of interest Gridware (Lamey et al., 2004) allows selecting specific cells or cell regions of the SSG, which makes it possible to derive several measures related to those specific cells or the cell region. These measures are called cell or region measures (Granic & Hollenstein, 2003).

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Analyzing Teacher-Student Interactions with State Space Grids

more suited to understand how classroom interventions or specific teacher behavior take their effect in class during teaching. In this chapter we describe how we use a research tool called ...

An Introduction to Microgrids: Benefits, Components, ...

Microgrids play a crucial role in the transition towards a low carbon future. By incorporating renewable energy sources, energy storage systems, and advanced control systems, microgrids help to reduce dependence on fossil fuels and ...



Teacher-Student Interactions and Teacher ...

In the present study we investigated the dynamics of teacher-student interactions by visualizing and analyzing the interactions' trajectories with State Space Grid (SSG) analysis (Hollenstein, Citation 2013; Lewis, Lamey, & ...

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