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Videocoding – a methodological research approach to mathematical activities of kindergarten children.

Ubuz, Behiye (ed.) et al., CERME 8. Proceedings of the eighth congress of the European Society of Research in Mathematics Education, Antalya, Turkey, February 6–10, 2013. Ankara: Middle East Technical University (ISBN 978-975-429-315-9). 2248-2257 (2013).

Summary: A methodological research perspective is taken on the mathematical activities of kindergarten children in mathematical situations of play and exploration. Videotaped verbal and gestural expressions of children as well as activities with the material are encoded with the help of a coding guideline, which is developed for mathematical activities. So courses of mathematical activities can be traced during a mathematical situation of play and exploration and even over several data collection points. At the same time connections of using different mathematical activities between the participants become clear. The introduced methodology of video coding connects qualitative with quantitative analysis methods.

Classification: D31 D41

Keywords: activities; kindergarten children; mathematical situations; video coding; exploration