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[**Abstract Proceedings**]



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ABSTRACT PROCEEDINGS

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**Investigation of the Effect of Computer-Aided Animations on Conceptual Understanding
Through Metaphors: An Example of Artificial Intelligence**

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In this research, Information Technology and Software (IT) course the differences between the conceptual understanding of fifth grade students regarding the concept of artificial intelligence before and after computer-aided animation monitoring were tried to be determined through metaphors. In the 2021-2022 academic year, 39 teachers working in the field of Information Technologies and 101 fifth-grade students studying at a secondary school in the Nilufer District of Bursa participated in the study. The purposeful sampling method was used to select the sample of the study. At the first stage of the study, the “Information Technology and Software Course Concept Teaching Questionnaire” prepared by the researchers was applied to the teachers online in order to identify the concepts that had difficulty in teaching within the scope of the BTY course. As a result of the survey dec, many concepts that are difficult to teach have been revealed, and among them, the concept of “artificial intelligence” has been included in the study due to its current and open to development. In the second stage of the study, in order to determine the metaphorical perceptions of students about the concept of artificial intelligence, students were asked to “Artificial intelligence is like ... because ...”. In the light of the themes obtained from the metaphor results, computer-aided animation was developed by the researchers, which takes the concept of artificial intelligence as a subject. After the animation was shown to the students, the metaphor study was repeated and the change in the students' understanding of the concept of artificial intelligence was tried to determine. As a result of the study, although the conceptual categories related to artificial intelligence had similar characteristics in general, it was found that the justifications in the conceptual perceptions after animation were more meaningful

Keywords: Artificial intelligence; metaphor; computer aided animation