

## **Students' abilities in explanation and elimination of thinking biases**

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### **Abstract**

The article presents the results of experimental research of students' way of thinking at solution of classification problems; considers fulfillment of the operation of comparison using verbal materials, as well as the ability of students to improve solutions jointly or individually; shows the existence of stable structures-biases being deviations from the logical standard of comparison, in the students' thinking; distinguishes the types of biases of various structure; shows the role of reflexion based on logic knowledge in the development of the classification thinking of students; and suggests a modification of the R. Olver and R. Hornsby methodology, which allows to study the comparison of students' unity of cognitive and metacognitive elements. © IDOSI Publications, 2014.

<http://dx.doi.org/10.5829/idosi.wasj.2014.30.06.14075>

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### **Keywords**

Bias structure, Biases, Comparison, Correction of comparison mistakes, Logical form of an operation, Metacognitive processes, Reflexive reasoning