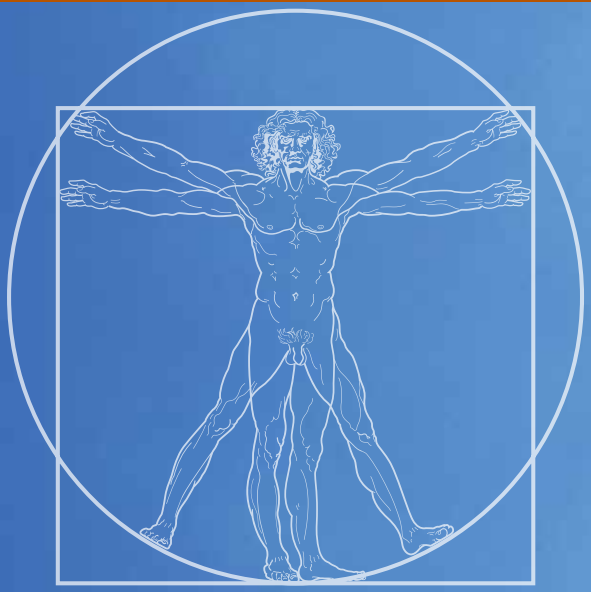

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Linking technology and psychology: feeding the mind, energy for life

ABSTRACT BOOK

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Abstract Book

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SOCIAL INTELLIGENCE AND COGNITIVE ABILITIES AS PREDICTORS OF HIGH MATHEMATICAL EFFECTIVENESS

A12. General issues and basic processes - Intelligence and cognitive functioning

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The main purpose of our research was the investigation how strategies of social behavior and cognitive abilities help freshmen to be successful in mathematics. The study was conducted on the personality and intellectual factors of high mathematical effectiveness in a sample of 870 first-year university students. To examine the social intelligence we applied the Evaluation of Choice in Conflict Situations Questionnaire (S.V. Shcherbakov), which contains six scales - strategies of behavior in conflict.Measured abilities were the abstract-logical intelligence (Raven's Matrices), spatial abilities (mental rotation, Corsi blocks), and mathematical ability (numerical series and semantics).The Unified State Examination in mathematics (USE) was the indicator of high mathematical effectiveness. Our findings have indicated that the social intelligence contributes to the results of the examination in mathematics. It has been found out that such unconstructive strategies of social behavior as «Avoiding» and «Being caustic» contribute to the results of the examination in mathematics. It was also found that the abstract-logical intelligence and spatial abilities have a significant effect on the results of the examination in mathematics.