

**‘Specialization in ICTs and Special Education: Psychopedagogy of Integration’  
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**BRAIN – COMPUTER INTERFACE SYSTEMS AS INTERVENTION TOOLS IN  
AUTISM SPECTRUM DISORDER**

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## **ABSTRACT**

Autism is a pervasive neurodevelopmental disorder of multifactorial causation and phenotypical variation. The nature of the disorder together with the difficulty in planning and implementing highly effective treatment models, have directed the scientific research towards discovering and implementing new intervention or/and therapeutic models, of different type and philosophy. Brain – computer interface systems as intervention tools in autism comprise an approach consistent with the demands of the new era. The dissertation aims at examining applied, non-invasive research protocols of this kind, placing emphasis on the way they were implemented and their effectiveness. The review was conducted on published research in the last decade, concerning ages 4-21.

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