

## Research on the Influence of Robot Teaching on the Creativity of Primary and Secondary School Students under the Background of STEM Education

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**Abstract :** With the development of society and the changes of the times, the requirements for the cultivation of learners are different. In the 21st century, STEM education has become a boom in the development of education in various countries, aiming to improve the comprehensive ability of learners in science, technology, engineering, and mathematics. The rise of robot education provides an effective way for STEM education to cultivate computational thinking ability, interdisciplinary ability, problem-solving ability, and teamwork ability. Although robot education has been developed in China for several years, it still lacks a standard curriculum system. This article uses programming software as a platform, through the research and analysis of 'Basic Education Information Technology Curriculum Standards (2012 Edition)', combines with the actual learning situation of learners, tries to conduct teaching project design research, and aims at providing references for the teaching ideas and method of robot education courses. In contemporary society, technological advances increasingly require creativity. Innovative comprehensive talents urgently need a radical and effective education reform to keep up with social changes. So in this context, robot teaching design can be used for students. The tendency of creativity to influence is worth to be verified.

**Keywords :** STEM education, robot teaching, primary and secondary school students, tendency of creativity

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