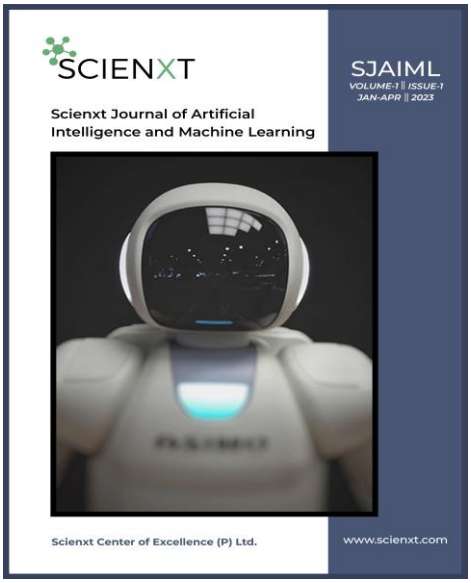

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Creativity in AI-based systems

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Abstract:

Implementing the element of Creativity in AI-based systems has presented several challenges. This is primarily due to the fact that creativity is a dynamic and variable quality unique to humans. Hence, imparting creativity inside AI is a big challenge. The present research work seeks to discuss these challenges and reflect upon the many facets of creativity that need to be addressed for designing AI systems capable of creativity. As a consequence of this, it is believed that the implementation of artificial intelligence (AI) and the development of AI would lead to an increase in creative talents in order to better prepare humans to take advantage of opportunities and overcome problems. When humans consider the possibility that AI could have creative capabilities, it opens up new avenues for us to consider aspects of human creativity and the process of creation, some of which are successfully imitated by AI. These new avenues allow us to consider aspects of human creativity and the process of creating

Keywords:

Artificial Intelligence, Creativity, cognitive processes, forward-thinking, Spontaneous creativity, emotional creativity, using natural language processing