User Experience and Impact of AI Features in AutoCAD

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Abstract : For over 30 years, AutoCAD, a powerful CAD software developed by Autodesk, has been an imperative need for design in industries such as engineering, building, and architecture. With the emerge of advanced technology, AutoCAD has undergone a revolutionary change with the involvement of artificial intelligence capabilities that have enhanced the productivity and efficiency at work and quality in the design for the users. This paper investigates the role AI in AutoCAD, especially in intelligent automation, generative design, automated design ideas, natural language processing, and predictive analytics. To identify further, A survey among users was also conducted to assess the adoption and satisfaction of AI features and identify areas for improvement. The Competitive standing of AutoCAD is further crosschecked against other AI-enabled CAD software packages, including SolidWorks, Fusion 360, and Rhino.In this paper, an overview of the current impacts of AI in AutoCAD is given, along with some recommendations for the future road of AI development to meet users' requirements

Keywords : artificail inteligence, natural language proccesing, intelligent automation, generative design

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