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(57) Abstract :
The present invention relates to a computer-implemented method and system for automated web page layout design using genetic algorithms. The method and system receive input data including website content and design preferences and use a genetic algorithm to generate a population of web page layout configurations. The fitness of each layout configuration is evaluated based on predetermined design criteria, and the layouts with the highest fitness values are selected to generate a final optimized web page layout. The invention has several advantages, including efficient and automated web page layout design, customization of design criteria, A/B testing, mobile optimization, and template generation. The present invention has numerous applications in the field of web design and can greatly improve the user experience and engagement on websites.

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