

# Artificial Intelligence in Electronics and Communication

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**Abstract:** *In today's rapidly evolving technological landscape, artificial intelligence (AI) integration has ushered in a new era of innovation and efficiency across numerous industries. One domain where AI is making profound contributions is electronics and communication design. A new era of efficiency, invention, and connectedness has been brought about by the integration of AI into electronic gadgets and communication networks. AI fundamentally transforms the electronics design process from automating schematic design and optimizing component selection to enhancing printed circuit board layouts and predicting failure modes. AI-driven speech recognition technology has improved the accuracy and reliability of voice-activated systems.*

**Keywords:** artificial intelligence