

Editorial

We present the last issue of the fifteenth volume of the **Journal of Electronic Systems**, featuring the research below.

In the opening paper, “**AI-Driven Electronic Vision for Formative Classroom Educational Assessment**,” the authors studied the application of AI-driven computer vision to enhance formative assessment in classroom settings. They proposed a multi-column convolutional neural network architecture combined with sliding window fusion techniques to improve object and scene recognition accuracy. The authors conclude that integrating AI and computer vision into teaching evaluation provides richer, real-time data for educators and supports pedagogical improvements.

In the second paper, “**An Enhanced Architecture and Modularisation Strategies in Distributed Electronic Systems**,” the authors studied the modular architecture of distributed electronic control systems to enhance their performance, reliability, and scalability. The author outlined a distributed design framework that integrates modularisation strategies with optimised communication protocols and data transmission approaches. Further, the author concluded that thoughtful module design significantly boosts system effectiveness and provides practical guidance for engineering implementations.

In the final paper, “**Precision Error Removal in Smart Robotics Using 3D Machine Learning**,” the author introduced a new approach to improving welding accuracy by integrating 3D visual localisation with welding robots. The experimental results suggest that 3D visual localisation significantly enhances welding precision, reduces defects, and improves production efficiency. The combination of advanced visual sensing with intelligent algorithms offers a promising pathway for next-generation welding automation.

We hope that these papers are technically incremental in the field of electronic system research.

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