



# Advanced Instrumentation and Computer I/O Design: Real-Time Computer Interactive Engineering

*Patrick H. Garrett*

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# Advanced Instrumentation and Computer I/O Design: Real-Time Computer Interactive Engineering

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## **Advanced Instrumentation and Computer I/O Design: Real-Time Computer Interactive Engineering**

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This advanced text addresses system error analysis and performance accountability in a comprehensive and up-to-date manner. Covering a wide range of topics from instrumentation, sensors, and signal conditioning through digital conversion and signal reconstruction, the author employs model-based methods for characterizing the design and analysis of real-time computer I/O systems.

*Advanced Instrumentation and Computer I/O Design* provides an improved understanding of computer interfacing and includes these key features:

- Accurate data from the analog input circuits through the data conversion devices and output reconstruction components
- Descriptions of component errors including average filter errors, signal quality errors and the intersample error representation and improvement of sampled-data signals
- The extension to advanced interfacing and distributed I/O systems such as imaging and digital control

This book will be of particular interest to engineers, technologists, and scientists involved in the design, selection, or application of real-time computer I/O and its associated instrumentation for the broad tasks of measurement and control.

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