



## **MINI-SYMPOSIUM**

### **SIGNALS, INSTRUMENTATION, AND MEASUREMENT**

Mouhaydine Tlemçani<sup>1,2</sup>

1: Instrumentation and Control Laboratory  
Institute of Earth Sciences (ICT)  
University of Évora  
7000-671, Évora, Portugal

2: Department of Mechatronics Engineering  
School of Science & Technology  
University of Évora  
7000-671, Évora, Portugal

#### **Summary**

Instrumentation and measurement play a critical role in systems and signal analysis, as they allow engineers to acquire and analyze data on various physical phenomena and engineering systems. The signals are often complex and difficult to understand without proper instrumentation and measurement techniques. To design and test systems, engineers need to be able to measure and analyze system behavior under different conditions. Instrumentation and measurement tools allow engineers to make accurate measurements of system parameters such as frequency response, bandwidth, and signal-to-noise ratio. By measuring and analyzing system behavior, engineers can identify areas for improvement and optimization. With a transversal approach, this symposium aims to be a meeting point where the improvement of measurement systems is the center of the optimization of system behavior. The meeting and discussions between the participants will highlight the interest that every engineer should have in the instrumental side of research and development.