

Metrology for industry and citizenship: opportunities to strengthen the quality infrastructure in the Digital Era

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Introduction

This work proposes a conceptual framework that explores opportunities and metrological challenges emerging from digital transformation, aiming to strengthen the national quality infrastructure and promote a more accessible and inclusive metrology.

The theoretical structure

This proposal highlights the role of metrology as a central element of the quality infrastructure and as an instrument of citizenship, especially in emerging economies.

Contextualization

Social transformations and global trade expansion, amid dissolving boundaries, demand adapting quality infrastructure to the Digital Era to ensure effective control and reliable decisions.

Metrology for emerging economies

In emerging economies, the reinforcement of quality infrastructure and the democratization of access to metrology hold transformative potential to drive sustainable industrial and social development.

