

Basic Concepts of the Digital Measurements Metrology

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We reviewed the basic concepts of measurement systems Metrology and showed the shortcomings of historically established methods of metrological certification of digital measurement systems. We consider it appropriate to allocate and metrologically certify as measuring instruments in modern measuring systems only their input part, primary digital measuring instruments or measuring channels with digital output, while the remaining system tools are considered as secondary non-measuring tools that require digital certification, not metrological. This approach can significantly reduce the cost of metrological support for measuring systems. The current issues discussed are undoubtedly of great importance for the socio-economic development of Uzbekistan in the coming years, because its future is inextricably linked with the widespread introduction and use of digital technologies.

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