Image Analysis for Product Quality Control

Guest Editors:

Prof. Dr. Andrzej Sioma
Department of Process Automation, AGH University of Science and Technology, 30-059 Kraków, Poland

Dr. Grzegorz Struzikiewicz
Production Engineering Institute, Mechanical Faculty, Cracow University of Technology, 31-155 Kraków, Poland

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Message from the Guest Editors

Dear Colleagues,

Image analysis carried out in industry using various types of vision systems is performed for the purpose of quick, noncontact, and multiparameter quality assessment of the product. It is introduced in many industries, enabling the implementation of a very wide range of control and measurement tasks. It has become a part of quality control systems operating in factories and is at the same time a source of product data collected by company databases supporting MESs (manufacturing execution systems). At the same time, image analysis is used as part of controlling the parameters of the production process, e.g., in tasks of positioning machines and robots, controlling tool wear or checking the wear of machine parts.

Expanding the scope of image analysis application is associated with the development of new 2D and 3D imaging methods, increasing the resolution of matrices and optical systems, and the introduction of new algorithms as part of using artificial intelligence.

Special Issue

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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