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Renovation of Parts to Save Metals (2nd Edition)

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Deadline for manuscript submissions:
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Message from the Guest Editors

New challenges have recently arisen in the field of R&D, whose aim is to transform the industry toward the efficient use of existing resources and raw materials. The scope of engineering activities is shifting from the design of new machine parts to renovation technologies to use alternative renovation processes. The basic task of renovation technologies is to restore the geometric shape and dimensions of the functional surfaces of the components, as well as to increase the wear resistance of surfaces and extend the service life of renovated components. In practice, to increase the quality and service life of the renovated components, a renovation layer of a higher quality than that of the base material must be chosen. In the case of renovation of worn parts, it is first necessary to correctly analyze the type of wear, the impact of the environment, working conditions, and based on this analysis, to choose a suitable renovation technology.

The aim of the Special Issue is to provide space for researchers to present the latest research results in the field of the use of advanced technologies in the renovation of functional surfaces using new additional materials and coatings.

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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