# Special Issue

# Application of Diamond Burnishing to Improve the Performance of Materials

## Message from the Guest Editors

Potential topics include the following:

- Correlation between diamond burnishing (DB) process parameters and surface integrity (SI) characteristics;
- Correlation between the SI characteristics obtained through DB and the operational behavior of the corresponding component (fatigue, wear, corrosion resistance and others);
- Development of novel processes for modifying surface layers based on combining DB with other surface engineering (SE) processes;
- Development and research of novel diamond and other structures as materials for deforming elements in slide burnishing processes;
- DB application for processing complex surfaces and novel materials;
- Development of novel slide burnishing tools and devices and novel strategies for the processing of slide DB deforming elements and tools;
- Exploring the physical nature of slide DB processes;
- Development and application of optimization procedures in slide DB process.

## Guest Editors

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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

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