Special Issue

Non-conventional Machining and Machinability of Composites

Message from the Guest Editors

Application of various composites is rapidly increasing. The wide use of composites can be attributed to their outstanding inherent properties. In subtractive manufacturing technology, the machining process is very indispensable. Importantly, this process attracts some associated machining-induced damage (MID) responses. Moreover, there is some associated MID on composites that are not well pronounced in other engineering materials. Therefore, non-conventional machining (NCM) was introduced to eliminate the aforementioned MID responses. NCM techniques include the following types:

- Electron beam machining (EBM)
- Abrasive/waterjet machining (A/WJM)
- Ultrasonically-assisted machining (UAM)
- Laser beam machining (LBM)
- Electrical/Electron discharge machining (EDM)
- Electrochemical machining (ECM) and
- Other non-traditional/conventional machining processes (NCM)

Importantly, it is expected that NCM will become a key feature of future machining of various types of composites. The aim of this Special Issue is to follow the state-of-the-art of evolution of NCM, and identify new challenges and ways forward for future research.

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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.

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