Special Issue

Vibration Control and Monitoring of Machine Tools

Message from the Guest Editor

In recent years, although there is a need for further development of high-precision and high-efficiency machining technology to achieve thin-walled or complex shape machine parts, the vibration generated during the machining process has become a bottleneck in achieving them. For example, chatter vibration reduces machining quality and significantly restricts productivity. Therefore, the industry continues to seek chatter suppression or avoidance technology. In the last decade, there have been many advances regarding vibration control and monitoring technologies for chatter vibration. The main topic of the present Special Issue is to provide recent achievements in vibration control techniques and vibration monitoring technologies during the machining process.

- machine tool vibration
- chatter vibration
- vibration control
- damping
- vibration monitoring
- measurement and signal processing

Guest Editor

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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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