



Bi Zhang  
Southern University of Science and Technology, China

**Biography:** Dr. Bi Zhang is a Chair Professor and Associate Dean of Engineering at Southern University of Science and Technology. He has channeled his expertise into high-speed machining research and pioneered seminal theories of "material embrittlement" and the "skin effect" of machining damage in the realm of ultra-high-speed machining. These contributions have solidified the theoretical underpinnings for the machining of materials that are traditionally challenging to work with. His scholarly pursuits include a comprehensive approach to theoretical analysis, multiscale modeling and simulation, examination of machining processes, process monitoring, and material characterization, all in the quest to demystify the mechanisms of material removal at high velocities.