



Biotribology in Human Body

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

It is well known that “Biotribology” is an emerging research sector and covers all aspects of tribology concerned with biological systems. In last few years, scientific attention has been focused on several main topics, like joint tribology, dental tribology, as well as skin tribology, medical devices tribology, etc.

This Special Issue aims the latest advances in bio-tribological challenges in the human body with particular attention on the mathematical and numerical modeling necessary for in-silico tribological investigations. Contributions are welcome from both academic researchers and their industrial peers, dealing with the latest developments on this topic. Principal topics include, but are not limited to:

- Lubrication models of natural and artificial human synovial joints
- Dynamic modeling of human motion
- Surface metrology, contact mechanics, friction, lubrication and wear of artificial joints
- Tribological behavior of biomaterials
- Biological implants
- Dental tribology
- Ocular tribology
- Mouth feel and taste perception in oral environment



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Special Issue