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The Mechanical Engineering Section is open to receive high-quality papers reporting state-of-the-art technology in the fields of solid mechanics, machine design, advanced manufacturing processes as well as other basic phenomena in this field. The section welcomes rudimentary and challenging studies concerning the basic and advanced design of components and structures subjected to in-service loading conditions. Fluid dynamics and thermodynamics are included in this section.

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Content Highlights

**Dielectric Elastomer Actuator for Soft Robotics Applications and Challenges**
Authors: Jung-Hwan Youn, Seung Mo Jeon, Geonwoo Hwang, Hyunwoo Kim, Kyujin Hyeon, Jihwan Park and Ki-Uk Kyung
*Appl. Sci.* **2020**, **10**(2), 640
https://doi.org/10.3390/app10020640

**Dynamic Modeling of the Dissipative Contact and Friction Forces of a Passive Biped-Walking Robot**
Authors: Eduardo Corral, M.J. Gómez García, Cristina Castejon, Jesús Meneses and Raúl Gismeros
*Appl. Sci.* **2020**, **10**(7), 2342
https://doi.org/10.3390/app10072342

**An Inspection Robot for Belt Conveyor Maintenance in Underground Mine—Infrared Thermography for Overheated Idlers Detection**
Authors: Jarosław Szrek, Jacek Wodecki, Ryszard Błażej and Radoslaw Zimroz
*Appl. Sci.* **2020**, **10**(14), 4984
https://doi.org/10.3390/app10144984

**Review of Vibration-Based Structural Health Monitoring Using Deep Learning**
Authors: Gyungmin Toh and Junhong Park
*Appl. Sci.* **2020**, **10**(5), 1680
https://doi.org/10.3390/app10051680

**A Novel Intelligent Method for Bearing Fault Diagnosis Based on EEMD Permutation Entropy and GG Clustering**
Authors: Jingbao Hou, Yunxin Wu, Hai Gong, A. S. Ahmad and Lei Liu
*Appl. Sci.* **2020**, **10**(1), 386
https://doi.org/10.3390/app10010386