



Dynamics Modeling, Control, and Eco-Driving of Heavy Equipment & Machinery for Eco-Friendly Environments

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Message from the Guest Editors

Dear Colleagues,

Heavy equipment, or heavy machinery, refers to heavy-duty vehicles. These vehicles are frequently used for construction, lifting, landscaping, digging, road paving, forestry, etc., and consume extensive amounts of energy.

In this Special Issue, we will analyze how an accurate dynamics model can be developed for ecofriendly safety and control applications to improve heavy equipment' overall efficiency. We welcome original papers on topics including, but not limited to, the following:

1. Machine learning methods for modeling and control;
2. Machine learning methods for eco-driving and energy saving applications;
3. Multibody system methods for dynamics modeling and analysis;
4. Other effective methods for modeling, control and energy saving applications;
5. Health monitoring and management of heavy equipment and machinery;
6. Fault diagnosis and prognosis of heavy equipment and machinery;
7. Comfort and performance of heavy equipment and machinery;
8. Passive and active safety control of heavy equipment and machinery.





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Message from the Editor-in-Chief

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