



## Estimating Environmental Impacts in Modeling the Sustainable Development of Machines and Technical Systems

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### Message from the Guest Editors

Life cycle approaches are key to identifying and reducing the environmental burden of products and processes. Sustainable development is socio-economic development that ensures that the needs of present and future generations are met without worsening quality of life in three areas: economic, ecological and social. Life cycle analysis is a standardized framework for assessing the environmental impact of a product or process that incorporates complexity, leading to generalized conclusions about the entire life cycle. Each product affects the environment, and the life cycle of most products is long and complex. Therefore, the goal is to strive to minimize the product's environmental impact in all phases of the life cycle.

The aim of this Special Issue is to collect creative and research papers presenting original research results, developed using innovative methods for the integrated sustainable development assessment of the life cycles of machines and technical systems.





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