

Special Issue

Computation and Decision Sciences for a Sustainable Future

Message from the Guest Editors

A Native American proverb says “We do not inherit the land from our ancestors, we borrow it from our children”. In 2005, the UN incorporated three pillars of sustainability: its social, environmental, and economic aspects.

In the sustainable development, computational research activities have focused on identifying, formalizing, and providing solutions to problems concerning the balancing of environmental, economic, and societal needs for a sustainable future. Due to the interlocking pieces across domains the sustainability covers, the challenges in the computational sustainability are scale, heterogeneity, interconnection, and human interaction with systems.

This special issue encourages interdisciplinary research on the general sustainability themes: Balancing environmental and socioeconomic needs; sustainable communities; and affordable and clean energy, covering broad computational and decision-making themes: optimization, dynamical models, simulation, and artificial intelligence.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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