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Modelling of Industrial Processes

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Message from the Guest Editors

The modelling of industrial processes has evolved following the understanding of the fundamental science that underlies them and the growth of computational power that allowed the resulting knowledge to be cast into refined design and operation algorithms. Presently, new opportunities and challenges are looming up. The impending industrial revolution, boosted by advances in basic science, such as nanotechnology, biotechnology, artificial intelligence, and big data analysis, will change scale and scope of production. Sustainability will profit from improved process intensification and energy integration. Industrial processes, facing new scenarios, will have to strengthen resiliency and flexibility to withstand sudden supply chains collapses, trade wars, and price oscillations. Industrial revolution, sustainability and management of uncertainty will deeply affect traditional areas, such as process optimization, optimal control, process synthesis, scale-up techniques, and safety analysis.



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Special Issue



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Message from the Editor-in-Chief

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