

## PREFACE

This Special Issue of the *Journal of Applied Mathematics and Computational Mechanics* features original research papers presented at the 30th International Slovak-Polish Scientific Conference on Machine Modelling and Simulations.

The main motivation of this Special Issue is to share the latest achievements in the development and modelling of manufacturing technologies and machine design, discussed by an international group of researchers working in interdisciplinary fields such as applied mechanics, mechanical engineering, and machine design. Issues of modelling and simulation are considered in the context of ensuring product quality as well as harmonious economic and technological development. Machine modelling and simulation employ models as the basis for simulations to generate data used for technical decision-making across a broad range of mechanical engineering applications for both scientific and industrial purposes. Each manuscript provides a description of a modelled process, phenomenon, or object in advanced industrial, automotive, and green energy applications.

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