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## EDITORIAL

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## Foreword

This special issue contains selected papers presented at the conference *Modern Materials and Manufacturing 2025 (MMM2025)*, which hosted the 15th International DAAAM Baltic Conference and the 31st International Baltic Conference BALTMATTRIB 2025. The conference was organized by Tallinn University of Technology (TalTech) on 6–8 May 2025 in Tallinn, Estonia, and it welcomed over 120 participants from 11 countries: Estonia, Latvia, Lithuania, Finland, Poland, Austria, Turkey, France, Spain, Norway and Armenia. The conference was divided into two scientific days and one day dedicated to laboratory visits and networking, attracting worldwide interest and active participation from researchers across national and global technical communities.

The conference *Modern Materials and Manufacturing* is an international forum focused on Industry 5.0, robotics and manufacturing engineering, the Internet of Things, digital twins and additive manufacturing, materials engineering, powder metallurgy and tribology – bringing together experts from universities and industry in the fields of materials and manufacturing. It encourages new collaboration between different partners, not only from academia but also from national competence centres, industry and funding bodies. Our society needs engineers and managers with technological expertise, global vision and professional management skills in order to meet the challenges of the new age. We provide a meeting point for scientists, entrepreneurs and industry specialists to exchange visions of the future based on scientific research and case studies.

The technical programme included presentations on the results of scientific and engineering research in key areas of manufacturing and materials engineering as well as materials processing technologies, with a particular emphasis on current trends in the development and application of advanced materials and processes.

The organizing committee believes that this issue will be a valuable resource not only for the participants of the *MMM2025* conference but also for the whole research community in the fields of materials and manufacturing engineering.

Kristo Karjust  
Conference Chair