



## Foreword

This special issue contains selected papers presented at the conference Modern Materials and Manufacturing 2021 – MMM2021, which hosted the 13th International DAAAM Baltic Conference and the 29th International Baltic Conference BALTMATTRIB 2021. The conference was organized by Tallinn University of Technology (TalTech) on April 27–29, 2021 in Tallinn, Estonia, and it welcomed over 450 participants from 17 different countries: Estonia, Latvia, Lithuania, Germany, Poland, Portugal, Finland, Sweden, Denmark, Switzerland, United States of America, Austria, Belgium, Bosnia and Herzegovina, Russian Federation, Italy and France. The conference was divided into two science days and one industry day, attracting worldwide interest and active participation from researchers of national and global technical communities.

The conference Modern Materials and Manufacturing is an international forum focused on Industry 4.0, Robotics and Manufacturing Engineering, IoT, digital twins and additive manufacturing, Materials Engineering and Tribology, bringing together materials and manufacturing experts from universities and industry. 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 knowledge, global vision and professional management knowledge in order to meet the challenges of the new age. We emphasize the importance of European initiatives towards *Factories of the Future* and the technology platform *Manufuture*, and hope to make our contribution by providing a meeting point for scientists, entrepreneurs and industry specialists for the exchange of future visions based on scientific research and case studies.

The technical program included presentation of the results of scientific and engineering research in important areas of materials engineering as well as materials processing technologies, with particular emphasis on the 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 MMM2021 Conference, but also for the whole research community in the field of materials and manufacturing engineering.

Kristo Karjust  
Conference Chair