

# Preface

We are pleased to introduce this collection of the articles that were presented at and selected from the 2023 10th International Conference on Mechanics, Materials and Manufacturing (ICMMM) held in Washington, D. C., from August 18 to 20, 2023.

The presented papers were selected for publication after a peer review process by the Technical Committee and a panel of international reviewers. The showcased research results focused on the analysis properties of green building materials and their production methods, related to the analysis of the practice of development and evaluation of a vision inspection system for plastic bottle measurement and on ontology-oriented modelling of the Vickers hardness knowledge graph. Some research results were related to lean manufacturing, integrated maintenance management, etc. This selection will be of use to specialists in construction, big data and computational materials science, mechatronics and production management.

ICMMM aims to become a premier international conference for an in-depth discussion on the most up-to-date and innovative ideas, research projects, and practices in the fields of mechanics, materials and manufacturing that are all interlinked. The conference offering such latitude was a success allowing to significantly push the edge of knowledge in the focused fields.

The success of the conference was ensured by the collective efforts of many individuals. We would like to thank the respected professors who supported the conference and presentations. We are indebted to all of the authors for submitting their original papers. Also, we wish to express our sincere appreciation to all participants including all speakers and authors of the presentations. Special thanks go to our reviewers, the organizing committee members, and the technical program committee members for their great contribution and commitment to the conference. Thanks are also extended to the Scientific.net publisher for their support in the publication process.

We hope that this edition will prove useful for researchers and practitioners in developing and applying new technologies and processes in the field of mechanics, materials and manufacturing.

Our next year's conference ICMMM 2024 will be held in Warsaw, Poland, on June 14-16, 2024, supported by the Warsaw University of Technology (Poland), AGH University of Science and Technology (Poland), College of Economics and Computer Science (WSEI) (Poland) and Capitol Technology University (USA). Welcome to submit to the 2024 conference!

Warmest regards,  
Conference Organizing Committee - ICMMM 2023

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