

INTERNATIONAL JOURNAL OF MODERN MANUFACTURING TECHNOLOGIES

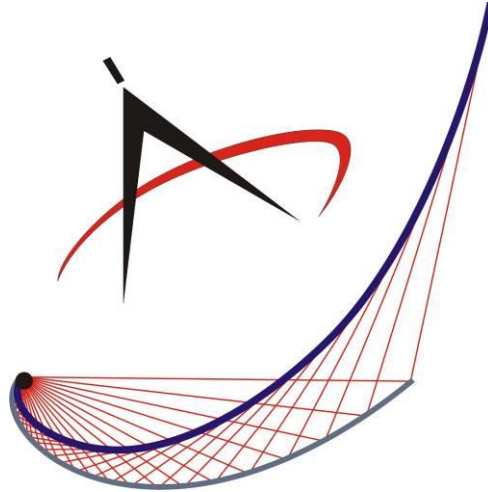
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The Perspective and Impact of Modern Manufacturing Technologies

Topics:

- ✓ Micro and Nanotechnologies; ✓ Rapid Prototyping Technologies; ✓ High Speed Manufacturing Processes; ✓ Ecological Technologies in Machine Manufacturing; ✓ Manufacturing and Automation; ✓ Flexible Manufacturing; ✓ New Manufacturing Processes: Design, Control and Exploitation; ✓ Assembly and Disassembly; ✓ Cold Forming Technologies; ✓ Optimization of Experimental Research and Manufacturing Processes; ✓ Maintenance, Reliability, Life Cycle, Time and Cost; ✓ CAD/CAM/CAE/CAX Integrated Systems; ✓ Composite Materials Technologies; ✓ Concurrent Engineering; ✓ Non-conventional Technologies; ✓ Virtual Manufacturing; ✓ Innovation, Creativity and Industrial Development; ✓ Manufacturing Systems; ✓ Welding Technologies; ✓ Industrial Design; ✓ Gear Design and Technologies.



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Special Issue

The Perspective and Impact of Modern Manufacturing Technologies

The 8th edition of ModTech International Conference, June 23rd-27th, was held online due to the global context on ensuring health security imposed by the Covid 19 virus. The ModTech2020 was organized by ModTech Professional Association and “Gheorghe Asachi” Technical University of Iasi and Constanta Maritime University, as the main co-organizers.

At this edition the other co-organizers were as follows: Technical Sciences Academy of Romania; The Society of Powder Technology of Japan; Silesian University of Technology of Gliwice, Poland; “Alec Russo” University of Balti, Republic of Moldova; Academy of Sciences of Moldova, Republic of Moldova; “Vasile Alecsandri” University of Bacau, Romania; "Dunarea de Jos" University of Galati, Romania; "Lucian Blaga" University of Sibiu, Romania; "Stefan cel Mare" University of Suceava, Romania; The General Association of the Engineers in Romania and Constanta Maritime University, Romania.

The participants of the 8th edition were from 24 countries such as: Germany, South Korea, India, France, Poland, Serbia, Republic of Moldova, Netherlands, Croatia, Romania, Mexico, Italy, Australia, Greece, Malaysia, Czech Republic, Iraq, Iran, Spain, Russia, Uzbekistan, Algeria, Slovenia, Slovak Republic and Bulgaria.

The ModTech2020 conference got together 172 specialists in the field of modern material manufacture and processing technologies both from Romania and from other countries with interesting presentations about the latest information on the research topics tackled by the conference.

The papers presented by the participants both during the three plenary sessions and in the different sections tackled the following topics: engineering of manufacturing processes; advances in composite materials and technologies; characterization, modeling and simulation of mechanical processes; robotics and computer integrated manufacturing; technology transfer; micro- and nano- technologies; maritime engineering and navigation.

In this special issue of *International Journal of Modern Manufacturing Technologies* (IJMMT), forefront research on various aspects of The Perspective and Impact of Modern Manufacturing Technologies is illustrated by selected peer-reviewed papers out of a large number of papers received for the conference. All of the papers submitted to the ModTech2020 International Conference were first subjected to examination by at least two independent reviewers prior to the conference. The selected papers subsequently underwent second round of peer-review. This special issue of IJMMT contains 19 high quality papers selected upon completion of the reviewer’s comments. The articles included in this special issue cover a large spectrum on current research activities of engineering, technologies and materials. We hope that the readers will find the articles of their interest, and thus pursue a more thorough investigation of the presented problems. We are extremely grateful to the contributors as well as the reviewers for their whole hearted cooperation and help.

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