

FOREWORD

We are pleased to present this issue of the Proceedings of the Academy of Romanian Scientists – PRODUCTICA SCIENTIFIC SESSION based on papers presented at the 13th edition of the Scientific Conference PRODUCTICA 2021 “*Innovative technologies, products and services*”, held on the 04 June 2021 *On-line*, using the *Microsoft Teams* platform.

The event was part of Scientific Session of the Center for Creativity Development, affiliated to the Academy of Romanian Scientists, and attracted a large number of submissions of the most relevant scientific results from universities, research institutes and companies. The main topics cover the following areas:

- COLLABORATION between universities and companies
- APPLIED RESEARCH during Masters and PhD studies
- INNOVATION and Knowledge Transfer
- INDUSTRY 4.0

We are very grateful to all who helped in organizing the conference and in particular, we would like to thank the members of the PRODUCTICA 2021 Program Committee. Their continuing support has been essential to further improve the quality of accepted submissions and the resulting success of the Conference.

The PRODUCTICA 2021 conference organizers would like also to thank to the Mioveni City Hall, Pitești City Hall, Institute INCERTRANS SA from Bucharest and BABLE GmbH from Stuttgart, for their involvement on selection of scientific papers with practical applicability in this edition with over 100 on-line participants.

*President of the Conference,
Professor Miron ZAPCIU*