Preface

The 26th DAAAM International Symposium on Intelligent Manufacturing and Automation took place at the University of Zadar, Croatia, between 21st and 24th October 2015, during the DAAAM International Week. The Symposium was organized by DAAAM International Association, University of Zadar, International Academy of Engineering, Vienna University of Technology, Austrian Society of Engineers and Architects, Vienna University of Applied Sciences - Technikum under the auspices of Danube Rectors’ Conference and Rectors’ and Presidents’ Honor Committee of DAAAM for 2015. The Symposium was hosted by oldest technical university in the Region, University of Zadar, which was founded in 1396 first time and 2002 the second time. In addition, Zadar provides an excellent environment for academic exchange between many professors, engineers and researchers. Zadar has been considered as a pole for academic development and it has gone beyond any geographic boundaries, since University of Zadar has strong international relations. This year symposium aimed at continuing the success of the previous year's focusing on the five-fold traditional objectives of the symposium: the presentation of the most recent high-quality results, support of development of young scientists and researchers, organization of international (summer) doctoral school, inauguration of new members of Central European Branch of International Academy of Engineering and the provision of the necessary setting for stimulating discussions, brainstorming and networking among European and international researchers coming both from the academia government agencies and industry.

Regular organization of annual Symposium is one of the central activities of the DAAAM International association. The association was founded on 5. November 1990 in Vienna on the meeting organised by Professor B. Katalinic in order to celebrate the 175 Years of Vienna University of Technology. The main idea of association was to establish network for new kind of international scientific and academic cooperation in the fields of intelligent manufacturing and automation. Our primer focus is on: all aspects of production of technical products made out of parts and corresponding automation and knowledge, trans-disciplinary application of methods and all kind of education.

DAAAM International activities, during the last twenty-six years, have been supported by scientists and experts from over fifty countries all over the world. In the course of the last decade, DAAAM International has focused activities on the regional and global long-term co-operation between (technical) universities. The result of this initiative is the founding of the University Network of DAAAM International Vienna and DAAAM International Network for Advanced Technologies which was founded on 2002-10-25 in Vienna.

The main activities of DAAAM are:

- Organisation of annual DAAAM International Symposium
- To maintain and improve the University Network of DAAAM International Vienna as a strategic alliance and permanent international open platform for long-term co-operation and partnership in all fields of technology, research and education.
- Organisation of long-term projects, initially known as Inter-university Doctoral Studies
- Organisation of long-term projects, initially known as the Virtual University.
- Publishing of international journals, books and proceedings
- Promotion of the exchange of people, scientific, and technical information.
- Promotion of international co-operation among scientists and engineers.
- Promotion of R & D, education and industrial application.
- To co-operate with other national and international organisations in matters of common interest.
- Organisation of International Doctoral School as platform for the support of next generation of engineers at the highest level

This proceeding contains 165 refereed papers from 400 authors presented at the 26th DAAAM 2015. In the DAAAM proceedings since first symposium in 1990 we published papers from 8518 authors.

All the papers included in these proceedings are reviewed by the experts in double blind peer review way, and finally revised by the authors for the improvement according to referee’s reports and advices.
The papers discuss many aspects of modern manufacturing and automation such as: Algorithms, Artificial Intelligence, CAX, Computer Integration, Control, Cutting Tools, Design, FEM, Invited Lectures, Knowledge, Management, Manufacturing System, Mechatronics, Methodology, Methods, Modelling, Optimization, Poster section, Robotics, Simulation, Technical Solutions, Technology and Trends.

Appreciation is forwarded to reviewers who contributed to improve the quality of papers reviewing the papers, providing constructive critical comments, improvements and corrections to the authors. We also recognize the support of the reviewers, who were in charge of acceptance/rejection process. We wish to thank the Scientific, Program and Organizing Committees, Session Chairs, student helpers and Administrative assistants, for contributing to the success of this Conference. They did an excellent job.

Finally, we wish to thank all the authors who submitted papers, making this conference possible, and the authors of accepted papers for making appropriate modifications and corrections with care and patience, and preparing the final manuscript. It is the quality of their presentations and their passion to communicate with the others participants that really makes this conference series a success.

Special thanks to Festo company for support of our activities and support of young researchers and scientists in the form of Festo Prize and Festo scholarships for the participants of the 4th DAAAM International Doctoral School, which was held parallel to the symposium and interacted positively each other.

We would like to thank the Rector of the University of Zadar Professor Dr Dijana Vican, her team, management and all those nice colleagues for their excellent support in the organization of 26th DAAAM International Symposium and the 4th DAAAM International Doctoral School.

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Editor
Chair of the 26th DAAAM 2015

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