

3<sup>rd</sup> International Engineering and Technology Education Conference  
&

7<sup>th</sup> Balkan Region Conference on Engineering and Business Education

IETEC'15 & BRCEBE'15

“The role of engineering/technology and business education in an uncertain future”

*1-4 November 2015*

*Lucian Blaga University of Sibiu, Romania*

# CONFERENCE PROCEEDINGS

All papers included in this proceeding are double blind peer reviewed.



Editors

**Claudiu Vasile KIFOR and Arun PATIL**

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# BALKAN REGION CONFERENCE ON ENGINEERING AND BUSINESS EDUCATION



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This scientific event brings business and academia together as well as academic researchers and scholars, in view of fostering reliable ideas, applications and tested implementations for engineering and business education that represent important requirements of the global world.

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# Preface

It is with great pleasure to publish Peer Reviewed Conference Proceedings for IETEC-BRCEBE, that is for the 3<sup>rd</sup> International Engineering and Technology Education Conference (IETEC'15) and 7<sup>th</sup> Balkan Region Conference on Engineering and Business Education (BRCEBE).

This year IETEC and BRCEBE is being held as a joint conference in beautiful Sibiu, Romania, from 1<sup>st</sup> – 4<sup>th</sup> November 2015. IETEC'15 and BRCEBE brings together a wide range of engineering, technology and business education stakeholders from around the globe to explore the building of new capacities that are essential in creating environmentally and socially sustainable 21st century economies. This joint conference aims to identify and explore the latest trends and developments that will shape the future worlds of engineering, technology and business education. Situated in the heart of Transylvania, at the foothills of the Carpathians, Sibiu is one of the most important cultural centres of Romania and one of the most beautiful medieval towns in Transylvania.

The key feature of this conference is continuous cooperation and collaboration between consortium of universities composing of the host university, “Lucian Blaga” University of Sibiu, Romania, Deakin University Australia and Universiti Teknologi Malaysia. This conference also showcased unique collaboration between engineering, technology and business education through joining two reputed and highly popular conferences (IETEC and BRCEBE)!

The conference set-up included not only research and practice paper sessions but, keynote addresses, interactive workshops and panel discussions. In addition, facilities were provided for group meetings and one-on-one interaction of the participants to discuss issues of

engineering, technology and business education and to network with conference participants and organisations.

The conference theme *the role of engineering/technology and business education in an uncertain future*, is highly valuable due to emerging inter-disciplinary trends in higher education and world economies. The papers and sessions at the conference also deliberated on the impact of the highly interdisciplinary nature of new technologies, trends in business education as well as research and development.

Several participants from countries covering the Asia Pacific, Europe, the Indian sub-continent and the Middle East regions had the opportunity to interact and discuss concepts, ideas and practices at the conference. The conference stimulated highly productive discussion and reflection. All papers contained in the Proceedings were presented at the conference and were refereed (double blind) by independent peer referees.

We would like to express our sincere gratitude to all contributors for submitting significant and quality papers. Special thanks to our reviewers, sponsors, supporters, conference speakers and special guests who have made this event a great success! We look forward to meeting again in 2017!

**Claudiu Vasile Kifor and Arun Patil**  
**Editors**

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The organising committee of IETEC-BRCEBE wishes to thank our sponsors and supporters for their support of our efforts to facilitate engineering education and research in Romania/Europe and the world.

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