FOREWORD

This volume represents the Proceedings of the 8th International Conference on Theory and Applications of Mathematics and Informatics (ICTAMI), held in Alba Iulia, Romania, on 17th – 20th of September, 2015.

The main organizer of the conference is *"1 Decembrie 1918" University of Alba Iulia, Romania* which, together with the most important institute in Mathematics, in Romania, *"Simion Stoilow" Institute of Mathematics of the Romanian Academy*, has been involved in all editions of the conference. Also, for the last three editions, *Istanbul Kültür University - Turkey and Kebangsaan University, Malaysia* have joined the conference as co-organizing institutions as well, contributing to the visibility of the event at the international level. For the 8th edition, *Yamato University - Osaka, Japan* was part of the institutional organizing board.

ICTAMI continues a tradition of bringing together researchers and academics from all over the world, specialists in Mathematics and Computer Science, first edition being held in 2002. The aim of the conference is to attract original papers on the following topics: *Algebraic Geometry and Algebraic Number Theory, Complex Analysis and Operator Theory, Differential Equations and Optimal Control, Probability and Statistics in Mathematical Modeling, Advances in the Theory and Applications of Computer Science, Artificial Intelligence, Product and Process Modeling; Embedded Systems, Knowledge Engineering.*

The volume contains a part of the papers presented at the conference, among which 10 papers are on Mathematics and 6 on Computer Science.

We would like to thank all authors and participants for their contributions.

Alba Iulia,
September, 2015

The Editors