Foreword

Welcome to CSIT 2017, the eleventh in the series of biennial conferences that focus on innovation in the field of computer science and information technologies. Welcome to Yerevan, Armenia.

For the past 20 years, the Conference series, originally founded in 1997, have played an important role for researchers and practitioners in Armenia, broadening international cooperation, developing and maintaining high level of research in the Armenian IT and computer science sector.

The CSIT 2017 program will begin with four plenary presentations.

The core of CSIT 2017, a four-day technical program, will address quite a few current topics and challenges in computer science and information technologies, with papers, presentations and poster sessions on the following subjects: Supercomputing and Big Data; Design and Test; Cryptography and Cybersecurity; Pattern Recognition and Image Processing; Artificial Intelligence and Machine Learning; Discrete Mathematics and Combinatorial Analysis; Algorithms, Automata and Logic; Parallel and Distributed Computing; Telecommunication and Networking; IT Applications.

More than 100 researchers and practitioners from Armenia, Belgium, China, France, Georgia, Iran, Kazakhstan, Norway, Russia, Slovakia, Ukraine and USA will present results of their work.

CSIT provides its participants with a venue for discussions on technology trends and challenges, as well as to share the results of their research work, both theoretical and applied. With its workshops, special sessions, and trainings, CSIT allows leading researchers and practitioners in academia and industry to contribute to the innovative practices and research as well as to draw the future research roadmap. This year, as always, we offer a rich variety of topics for workshops, special sessions, trainings and tutorials.

I would particularly like to draw your attention to the workshop on Supercomputing and Big Data. This workshop will cover current trends, challenges and results in Supercomputing in general and Armenian computational potential in particular, serving as a platform for discussions on how to further reinforce cooperation with the leading international research and educational infrastructures.

CSIT will offer an exciting recreational program; its participants will get a chance to visit remarkable sites both in Yerevan and the countryside, and to continue discussions in relaxed and informal settings.

CSIT is the result of the work of many dedicated volunteers: the reviewers, the Program Committee and the Organizing Committee. We wholeheartedly thank them all. We also wish to
express our deep gratitude to all the authors, who submitted their works to CSIT 2017 as well as program participants for their contribution.

We thank the IEEE Computer Society as a whole and the IEEE Computer Society Test Technology Technical Council in particular, for their continued technical sponsorship and support in publishing Conference proceedings that include selected revised papers; we are grateful to the National Academy of Sciences and the State Committee of Science of Armenia for their continuous support.

We hope that you will find CSIT 2017 thought-provoking, rewarding, and enjoyable. Wishing you all productive work in Yerevan, Armenia, we hope that you will continue to make CSIT a success by actively participating in it, assisting in its organization, and letting us know how we can improve the Conference to increase its value for the audience.

Thank you all for coming!

Yuri Shoukourian,
Conference Chair