



President's Message

It is indeed a great pleasure to accord a warm welcome to all the delegates to the ICCTEST-2017. This event is a product of the active involvement of all teaching and non-teaching fraternity, Organizing Committee Specialists and many National Societies around the globe. The International Conference and agendas are targeted in all fields of Engineering, Science & Technology, which is intended to disclose the current state of the art in order to stimulate a healthy debate and to project trends for new developments, which transcend the threshold to the 21st century. I thank everyone who has made this event possible and I look forward to personally meeting you during the conference.



Vice-President's Message

Dear Professors and Distinguished Delegates,

Welcome to the ICCTEST-2017 conference at DBIT Bangalore, India. On behalf of DBIT, I would like to thank all the Conference Chairs, Program Chairs and the Technical Committees. Their high competence and professional advice enable us to prepare the high quality program. After more than half-a- year of preparation, the conference finally comes into being. We hope all of you will have a wonderful time at the conference. We believe that by this conference, you get an opportunity for exchanging views with researchers and practitioners across globe with the common interest in different niche areas which are identified as theme for this conference. For this conference, more than 375 scholars have submitted papers and more than 221 papers have been accepted and published finally. In order to host more professional and significant International Conferences, your suggestions are warmly welcome.



Secretary's Message

My warmest greetings to all the participants of the International Conference ICCTEST-2017 hosted by DBIT.

Innovation shapes the contemporary global landscape. It raises the bar of competence in all disciplines and urges us to adopt more conscientious and dynamic practices. Let this gathering stimulate your passion for learning, as you approach the complexities of our evolving milieu with the determination and drive to excel. I thank you for lending your skills and expertise to further empower our students and faculty as together. We sustain our nation's revitalization. Onwards, we march along the straight and righteous path towards an equitably progressive path. Hope you will have a productive and engaging conference.



Principal's Message

The ICCTEST-2017 provides a forum for the discussion of advances in recent research in all fields of Engineering, Science & Technology. Specialists can exchange and update experiences with each other in these areas.

The International Conference ICCTEST-2017 provides opportunity for students and young engineers, researchers to meet the leading specialists in the above said. This is the forum wherein the experts will give their knowledge and experience to young beginning generation of future specialists.

The call for papers had an overwhelming response. Many distinguished specialist from all over the world submitted more than 375 abstracts and the Scientific Committee could select only 221 of them. This book contains all the accepted manuscripts and are made available in the CD form.

There is a hope that the conference proceedings will serve as a comprehensive compilation of the present knowledge and experience and will be used by engineers who are concerned with the subjects presented at the International Conference ICCTEST-2017.

On behalf of the executive committee of ICCTEST-2017, I wish to thank all the authors, invited lecturers, session chairman, members of the International Scientific Committee, National Coordinators and numerous others who helped to shape the content of this conference. I thank all organizing committee members and specially Dr. Rengaprabhu P, Professor, ECE department whose administrative experience and organizational skills contributed for the success of the conference.

Thank you for joining me at this momentous occasion.



Foreword

The Second international conference on Signal Processing, Image Processing and VLSI (ICCTEST-2017) mainly focuses in the field of Electronics & Telecommunications Engg., Electricals Engg., Computer & Information Science Engg., Civil Engg., Mechanical Engg., Science & Humanities, Library Science and Physical Education. In an overwhelming response we have received 375 research papers and all of them have undergone the review process. 221 research papers have been shortlisted based on the recommendations of the review committee. Each paper was reviewed by two experts in the concerned area. The fact that we have received papers from all over the globe indicates the type of research work in the area of signal processing, image processing and VLSI going on around the world.

I would like to extend my sincere thanks to reviewers for their valuable suggestions in bringing out the quality technical papers. We thank Wayanamac Education Trust (WET), Visveswaraya Technological University Belgaum, Chief patrons (International and National), Patron, Organizing Chairs, Organizing co-chairs, Advisory chair, Program chair, Program committee, Sponsors and faculty members of DBIT, Bangalore. The proceedings published by Grenze Scientific Society, IDES and Crossref, has rich experience in bringing this type of proceedings. Special thank to them for publishing the same. Let us all join together with our total support for the progress of Research and Development in the areas of Engineering, Science & Technology.

Dr. Mahesh P.K
Organizing Chair