

Message from the General Chair

On behalf of our Organizing Committee and the Local committee, I would like to welcome you to the WCSEIT2016 – III World Congress on Systems Engineering and Information Technology in São Paulo, São Paulo, Brazil. The conference is being held at the Universidade Paulista - UNIP, a well-established University recognized as an important center of production of knowledge.



This conference focuses on research topics related to research and recent developments towards the improvement of all Systems Engineering and Information Technology fields, counting with the presence of experts from across the globe.

This year the conference theme is "The Creativity and Entrepreneurship empowered by the Information Technology", which speaks directly to how we strive to work together to strengthen the global system engineering and information technology community.

The WCSEIT2016 – III World Congress on Systems Engineering and Information Technology is organized by COPEC – Science and Education Research Council and promoted by WCSEIT – World Council on Systems Engineering and Information Technology in Technical Cooperation (in alphabetical order): AAMP (Fishing Museum Friends Society), ABENC (Brazilian Society of Civil Engineers), ABENG (Brazilian Society for Engineering Education), AENUI (Asociación de Enseñantes Universitarios de la Informática), ASEE (American Society for Engineering Education), ASIBEI (Ibero-American Association of Engineering Education Institutions), GCM (Global Congress on Manufacturing and Management), IEEE-Ed.Soc. (Education Society of the Institute of Electrical and Electronics

Engineers), IFEEES (International Federation of Engineering Education Societies), IGIP (Internationale Gesellschaft für Ingenieurpädagogik), INTERTECH (International Council for Engineering and Technology Education); ISTE (Ibero-American Science & Technology Education Consortium), OERN (Institute of Engineers of Portugal – North Region), Porto Gente (PortFolk), RBE (Brazilian Network of Engineering), RCI (Réseau Carthagène d'Ingénierie), SBA (Brazilian Automation Society), SEFI (Société Européenne pour la Formation des Ingénieurs), SHERO (Safety, Health and Environment Research Organization), SPEE (Portuguese Society for Engineering Education), SPEED (Student Platform for Engineering Education Development) and WCCA (World Council on Communication and Arts).

We have to thank in special our sponsors CNPq (National Council for Scientific and Technological Development) and CAPES (Coordination for Improvement of Personnel of Superior Level).

This year as mentioned before WCSEIT is hosted by the UNIP in one of its beautiful campuses, the Tatuapé Unit.

We are honored to have as Local Chairs Prof. Dr. Marcelo Nogueira, coordinator of graduate courses in Computer Science/Information Systems and Prof. Dr. Arthur F. Battaglia, course coordinator nationwide, ambos at Universidade Paulista – UNIP, all are esteemed specialists in teaching in University.

Over the four days together, we shall forge new relationships and strengthen existing ties through committee meetings, informative workshops, global presentations and an

abundance of networking opportunities. Our goal is to make WCSEIT2016 a rewarding and memorable experience for each participant.

Before I close I would like to thank again each of you for attending WCSEIT'2016 conference and bringing your expertise to our gathering. You as a researcher and author who have the vision, the knowledge the wherewithal and the experience to help us to pave our way into the future. You are truly our greatest asset today and in the future and we

could not accomplish what we do without your contribution and support.

Our deepest respect and thanks to all of you!

Prof. Dr. Claudio da Rocha Brito
GENERAL CHAIR
President of COPEC
President Elect of IEEE Ed.Soc.

Message from the Technical Program Chair

As the Program Chair I'd like to welcome you to **WCSEIT2016 – III World Congress on Systems Engineering and Information Technology** in São Paulo, Brazil. This edition brings together a variety of contributions from scientists and academics worldwide to foster cooperation and to promote updated information sharing among members of the community. As always, we also extend a warm welcome to all our colleagues from other sectors that share our interest in improving Systems Engineering and Information Technology.

The theme "**The Creativity and Entrepreneurship empowered by the Information Technology**" was very inspiring and we received many papers, top research in the fields that have contributed a lot for the conference audience.

In addition to the excellent program, the conference provides an excellent environment to meet your peers in your fields, build relationships, and exchange lessons learned.

The 2016 congress program is an exciting combination of different sessions: technical sessions, workshops and special sessions all



planned and delivered to provide participants the best experiences.

As one of the largest capital cities, first time visitors to São Paulo are usually overwhelmed by the sheer grandiosity of the city. Aside from the obvious features of São Paulo's heritage, it also has some excellent museums and galleries, a multitude of high quality restaurants. For sure a nice place to visit and enjoy besides the conference environment and work. São Paulo is a city that manages to surprise and enthrall in equal measure, a big city that never sleeps!

Once again I would like to thank you all authors and participants for your contributions that have enlighten the event for the expertise, experience and readiness shared by you of high valuable. I am sure that it has been to all of us a fruitful meeting with discussions, interesting findings and observations.

Thank you!

Prof. Dr. Melany M. Ciampi
TECHNICAL PROGRAM CHAIR
President of WCSEIT
General Secretary of IEEE Ed.Soc.