2nd **W**orld conference on **I**ntegrated **S**TEaM **E**ducation through **R**obotics (**WISER**)

June 2, 2017
In conjunction with World Robofest 2017
St. Pete Beach Community Center, Florida, USA

We would like to gather together to share experiences and knowledge and exchange ideas in Robotics education as well as educational robotics for the effective STEaM learning environment. In addition we would like to discuss how to advance robotics education and educational robotics ultimately for humanity through the STEaM learning paradigm.

Teachers, educators, coaches, mentors, parents, robotics enthusiasts, and professionals as well as advanced high school & college students from all around the world are invited to give presentations at WISER '17. Suggested topics for K-16 education include, but are not limited to the following:

Educational aspects of Robotics

- Curriculum development and integration for effective STEaM learning
- Integrating Arts education into STEM through robotics
- Educational research on robotics competition based learning, problem based learning, and active collaborative learning
- Early education and designing pathways to STEM success through Robotics
- Student recruitment and retention into STEM through robotics
- Increasing STEM preparedness for college education through robotics
- Promoting creativity through robotics
- Comparison of educational outcomes from different robotics competitions
- Assessing robotics programs, events, and competitions
- Lessons learned from robotics competitions and best practices in team management

Technical aspects of Robotics for education

- Applying pre-college math and science to Robotics
- Technical resources (hardware and software) for Robotics education
- New technologies/products for Robotics and Robotics Education
- Showcase robotics projects
- Computational thinking and robotics
- Best practices for engineering success with robots

Conference registration fee is $50. Submit an abstract that does not exceed 300 words online *by May 7*, 2017 at: https://goo.gl/forms/fRGdmgTRlSZk0Opp1 (This link can also be found at Robofest.net/WISER)

Abstract, slides, and *optional* paper will be published online, if accepted.

Link to the Previous WISER'14 page where you can find papers and slides published in 2014.

Program Committee

- Dr. Cartwright, Dr. CJ Chung (Chair), Dr. Sibrina Collins, Lawrence Tech University
- Dr. Xie Zeng, Lehigh University