CALL FOR PAPERS

The CDIO™ Initiative (www.cdio.org) is an innovative educational framework for producing the next generation of engineers. The framework provides students with an education stressing engineering fundamentals set in the context of Conceiving — Designing — Implementing — Operating (CDIO) real-world systems and products.

CDIO collaborators recognize that an engineering education is acquired over a long period and in a variety of institutions, and that educators in all parts of this spectrum can learn from practice elsewhere. Several times each year CDIO collaborating institutions, engineering educators and researchers gather to exchange ideas and experiences, review developments, assess and further refine the Initiative.

The CDIO Initiative welcomes your ideas and invites proposals for papers and presentations at the 12th International CDIO Conference. The conference takes place in Turku Finland on June 12-16, 2016. Additional information on the conference is available at www.cdio.fi.

The main theme of the conference is *Enhancing Innovation Competencies* through advances in engineering education. Proposals are welcome on topics relevant to the CDIO approach and the conference theme.

Contribution Categories

- **Full Papers:** Contributions that require a full paper and that are expected to meet the standards set by the referees. The review process will follow three phases with their corresponding deadlines: 1) submission of a 500 word abstract, 2) submission of a full paper according to the template, and 3) submission of the final version of the full paper revised according to referees' comments. The papers accepted and submitted by the final deadline will appear in the conference proceedings and will be archived on the www.cdio.org website. The published papers will be submitted for indexing.

- **CDIO Projects in Progress:** These contributions describe current activities and initial development results and allow an opportunity to share them with other conference attendees and benefit from timely input. This track includes traditional conference presentations as well as discussions and skill development that would typically take place in a roundtable or workshop format. An abstract is required and will be selected for presentation by the program committee. The deadline for Projects in Progress abstracts is much later (see the important dates below), although submission as early as possible is preferred. The short contribution and any supporting materials submitted by the final deadline will appear in a separate section of the conference proceedings.

NOTE: The first deadline applies to the abstracts for the full paper category.

12th International CDIO Conference

June 12-16, 2016 ∘ TURKU ∘ FINLAND

www.cdio.fi

Conferences Themes and Tracks

The possible themes include (but are not limited to):

- CDIO Implementation Cases
- Curriculum Design
- Design-Implement Projects
- Engineering Leadership and Entrepreneurship
- Faculty Development
- Learning Assessment
- Program Evaluation and Accreditation
- Innovation Competencies and Innovation Pedagogy
- Innovations in Teaching and Learning
- Integrating CDIO Skills
- Internationalization and Globalization
- Introduction to Engineering Courses

Proposals should address one of the following tracks:

- **Advances in CDIO:** These contributions provide an advance to the state of the art in CDIO-based education. They meet the expectations for original scholarly publication, including adequate review of relevant literature, a hypothesis and/or research setting, results of simulations or measurements, analysis, and conclusions.

- **Engineering Education Research**: This track is customized for those who specialize in engineering education research (EER). Contributions require a full paper meeting criteria for scholarliness and usefulness for improving engineering education and supporting the goals of the CDIO initiative. Papers are jointly reviewed by engineering education researchers and practitioners (senior CDIO implementers). Every effort will be made during the revision process to produce a number of journal quality papers that can be supported towards publication. They will also be marked as EER in the proceedings.

- **Case Studies and Best Practices – CDIO Implementation:** These contributions describe a particular implementation of CDIO principles in a practical setting. They may describe experience with a course or project, an instruction method, or introduce new CDIO central materials (e.g. revised syllabus, self-evaluation rubrics, etc.). They may also be case studies of the program level implementation experience at a particular institution. These contributions must be examples of good practice (or critical examinations of where it was lacking) and be of general interest to the conference participants.

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Session Types

- **Workshop Presentations:** Interactive working session on a specific topic with activities that engage participants. A short contribution will outline the objectives for skills development and any requirements for prior knowledge of the topic or skills. The number of tracks and potential conflicts with podium presentations etc. will limit the size of the audience.

- **Roundtable Discussions / Working Groups:** Informal discussion of a topic proposed by a roundtable facilitator. A short contribution will provide the background and discussion questions. A follow-up summary report is required for the conference site. The participants may decide to continue the collaboration and form a working group. The goal of a working group can be, for example, to produce a journal article together.

- **Poster Presentations:** These presentations will provide a short 'teaser' opportunity for each poster author and will be available to the entire conference with no conflicts. Immediately following the teaser session posters provided by the authors will be on display in a central area where authors can discuss the work with interested attendees. This session will also be scheduled with no conflicts. Poster presentations will be scheduled early in the conference to facilitate further interaction.

- **Podium Presentations:** These presentations will follow a traditional conference format of multiple, parallel tracks with short presentations followed by Q&A. However, the discussion will be facilitated by an interactive phase concluding each session (additional information will be provided later). The number of tracks and potential conflicts with workshops etc. will limit the size of the audience.

Contributions will be matched to presentation type by the program committee with consideration of the author's preference and the nature of the contribution. Scheduling preference will be given to full paper contributions.

Important Dates and Deadlines

The following deadlines apply for the authors:

First Call for Papers	June 7, 2015
Second Call for Papers & abstract submission open	September 15, 2015
Abstract submission deadline (Full Papers)	November 15, 2015
Notification of abstract acceptance (Full Papers)	December 1, 2015
Draft paper submission deadline (Full Papers)	February 7, 2016
Abstract submission deadline (CDIO Projects in Progress)	February 7, 2016
Notification of (draft) paper acceptance (Full Papers)	March 6, 2016
Notification of abstract acceptance (CDIO Projects in Progress)	March 6, 2016
Early Registration deadline	April 1, 2016
Final submission deadline	April 30, 2016
CDIO 2016 Conference	June 12-16, 2016

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Abstract Preparation and Submission

Submission of full paper abstracts will be performed through an Internet-based submission system on or before November 15, 2015. Link to the submission system: https://www.softconf.com/h/cdio2016/

The corresponding author will enter the title, authors and affiliations, an abstract limited to 500 words, the suggested conference track and the preferred type of presentation. Please study also the information available on the conference website (www.cdio.fi).

The final submission must follow the formatting requirements detailed in the template on the conference website and must include a Creative Commons License to allow it to be included in the proceedings and/or archived on the CDIO web site. Furthermore, at least one of the authors shall register by the final submission deadline, participate in the conference and present the contribution. If no author is registered by the deadline, the contribution will be withdrawn from the program.

Criteria for Selection

- Relevance to the conference theme and tracks
- Innovative ideas with proven results
- Potential to stimulate thought and discussion
- Ideas, programs, and practices that have applications for the CDIO audience