



#	ID	Title	Authors (Bold = Registered participant)	Track	Presentation Format
1	1	Enhancing Interaction with External Stakeholders in Program Management	<b>Svante Gunnarsson</b> , <i>Anna Fahlgren and Per Fagrell</i>	CDIO Implementation	Podium
2	2	Continual Improvement in CDIO: Enhancing Faculty Competency in Reflective Practice	<b>Sin Moh Cheah</b>	Advances in CDIO	Podium
3	3	Self-Efficacy and Study Burnout among IT Students: Challenges and Potentials	<i>Miitta Järvinen, Janne Roslöf, Joni Lämsä, Raija Hämäläinen and Lauri Kettunen</i>	Engineering Education Research	Podium
4	6	Sustainable Development in Engineering Education	<i>Taru Konst, Juha Kontio and Piia Nurmi</i>	CDIO Implementation	Podium
5	7	Covid-19 Forced Remote Teaching and University Education after It	<b>Emiel van Puffelen</b> , <i>Tim Stevens, Kazem Banihashem, Harm Biemans, Omid Noorzi, Nienke Raeven and Perry den Brok</i>	Engineering Education Research	Podium
6	8	Finding Solutions to Digital Inequality in a Blended Learning Environment	<b>Laura Leslie</b> , <i>Darren Campbell and Rebecca Broadbent</i>	Engineering Education Research	Podium
7	9	Sustainable Design and Product Death	<b>Ahmed Tamkin Butt</b>	CDIO Implementation	Podium
8	10	Forming 'Ba' for Enhancing Online Communication Skills by CDIO Approach	<b>Masaru Kawahara</b> and <b>Yasuhiro Fukuzawa</b>	CDIO Implementation	Poster
9	11	CDIO for Education for Sustainable Development Using Common Core Curriculum	<b>Sin Moh Cheah</b> , <i>Lee Yee Lim and Yunn Chyi Chao</i>	CDIO Implementation	Podium
10	12	Developing Students' Generic Skills Based on Objective Evaluation	<b>Kuniaki Yajima</b> , <i>Koji Kawasaki, Yoshikatsu Kubota, Akihiro Wakahara, Naohiro Fukumura, Makoto Nanko and Munehiro Kimura</i>	CDIO Implementation	Poster
11	13	Implementing Portfolio Education Using Objective Data of Generic Skills	<i>Koji Kawasaki, Kuniaki Yajima, Yasuhiro Kashiwaba, Hisashi Takeshima, Takashi Shirane and Yoshikatsu Kubota</i>	CDIO Implementation	Poster
12	15	Making Good Challenges Great - Engaging External Parties in CBL Activities	<b>Charlotte, A. Norrman</b> , <b>Cia Lundvall</b> , <i>Karl Eldebo, Simon Boierts and Frans G. Stel</i>	Engineering Education Research	Podium
13	16	Introduction to Next-Generation Engineering: Being Human in the Information Society	<b>Jenni Virtaluoto</b> , <b>Janne Roslöf</b> , <i>Anne Pitkänen-Huhta and Lauri Kettunen</i>	CDIO Implementation	Podium
14	20	Improving Teaching of Self-Directed Learning via Teacher Modelling	<i>Yunyi Wong and Sin Moh Cheah</i>	CDIO Implementation	Podium
15	21	Higher Education Thesis Supervision - a New, Hybrid Supervisory Model	<b>Anders Adlemo</b>	CDIO Implementation	Podium
16	22	Local Resilience Strategies for COVID19 – a PBL Engineering Case Study	<b>Ann-Kristin Winkens</b> and <b>Carmen Leicht-Scholten</b>	CDIO Implementation	Podium
17	23	The CDIO Syllabus 3.0 - An Updated Statement of Goals	<i>Johan Malmqvist, Ulrika Lundqvist, Anders Rosen, Kristina Edström, Rajnish Gupta, Helene Leong, Sin Moh Cheah, Jens Bennedsen, Ron Hugo, Aldert Kamp, Ola Leifler, Svante Gunnarsson, Janne Roslöf and Daniel Spooner</i>	Advances in CDIO	Podium
18	25	Quality Assurance in Electronics-ICT Engineering Education	<b>Jo Verhaevert</b>	CDIO Implementation	Poster
19	26	A CDIO-Oriented Technology Product Development Course for Electronic Engineering Students	<b>Liviu Gal</b> , <b>Gabriela Dorfman Furman</b> and <b>Zeev Weissman</b>	CDIO Implementation	Podium
20	28	Systems Thinking in a Mechanical Engineering Program	<b>Björn Oskarsson</b> , <i>Jonas Hallström and Maria Hüge-Brodin</i>	CDIO Implementation	Podium
21	29	Simulation-Based Math in the Faculty of Engineering and Business	<b>Heidi M. Niskanen</b> and <b>Marko Kortetmäki</b>	CDIO Implementation	Podium
22	31	Challenges and Opportunities When Integrating Videos in Course Design	<b>Malin Wiger</b> , <i>Henrik Gillström and Uni Sallnäs</i>	CDIO Implementation	Podium



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23	32	<b>CDIO-Based Syllabus Design in the Context of Teacher Education</b>	<i>Bang Nguyen, Phu Hoang, <b>Yen Tran</b>, Vinh Nguyen and Duc Hoang</i>	CDIO Implementation	Podium
24	34	<b>Just-in-Time Learning Product Design and Development through Gamification</b>	<i><b>Marcus Vinicius Pereira Pessoa</b></i>	CDIO Implementation	Podium
25	35	<b>Curriculum Framework for Project Management Competences – Case TUAS</b>	<i><b>Mari Ketola</b> and <b>Juha Kontio</b></i>	CDIO Implementation	Poster
26	36	<b>Healthy Challenging Design Education for Engineers</b>	<i><b>Remon Rooij</b> and <b>Sylvia Mooij</b></i>	Engineering Education Research	Podium
27	37	<b>Improvement of Facilitation and Management Skills by Whole Systems Approach</b>	<i><b>Hiromasa Ohnishi</b></i>	CDIO Implementation	Poster
28	38	<b>Addressing Challenges of Hybrid Capstone Projects in a Pandemic Environment</b>	<i><b>Jerker Bjorkqvist</b>, Anna Sell and Dragos Truscan</i>	CDIO Implementation	Podium
29	39	<b>Visualizing the Effectiveness of Cross-Course-Typed PBL on Generic Skills</b>	<i>Jun Suzuki, Koji Kawasaki, <b>Kuniaki Yajima</b>, Shinji Chiba, Hisashi Takeshima and Yoshikatsu Kubota</i>	CDIO Implementation	Poster
30	41	<b>Work-Based Learning in Computer Science Education - Opportunities and Limitations</b>	<i><b>Daniel Einarson</b>, <b>Fredrik Frisk</b> and <b>Kamilla Klonowska</b></i>	CDIO Implementation	Podium
31	42	<b>Evaluation of Immersive Project-Based Learning Experiences</b>	<i>Tiia Rүүtman, Emlyn D. Q. Witt, <b>Theophilus O. O. Olowa</b>, Taija Puolitaival and Marco Bragadin</i>	CDIO Implementation	Podium
32	43	<b>How to Make Good Teachers Great in Challenge-Based Learning</b>	<i>Karl Eldebo, <b>Cia Lundvall</b>, <b>Charlotte, A. Norrman</b> and Madeleine Larsson</i>	Engineering Education Research	Podium
33	44	<b>Characterisation of Effective Delivery and Supervision of Capstone Projects</b>	<i><b>Tony Topping</b> and <b>Matt Murphy</b></i>	CDIO Implementation	Podium
34	47	<b>Engineering Students' Interaction with Industry Representatives</b>	<i>Martina Berglund, Peter Cronemyr, <b>Magdalena Smeds</b> and <b>Promporn Wangwacharakul</b></i>	CDIO Implementation	Podium
35	48	<b>Improving Teamwork with a Rotating Leadership Model</b>	<i><b>Sally Ng</b> and Benjamin Tan</i>	CDIO Implementation	Podium
36	49	<b>The Design of Software Engineering Courses for Future Remote Work</b>	<i><b>Marijana Teljega</b> and <b>Daniel Einarson</b></i>	CDIO Implementation	Podium
37	50	<b>Connecting across Differences to Develop Engineering Solutions to Sustainability Challenges</b>	<i>Clare Newstead and <b>Yvonne Reinwald</b></i>	CDIO Implementation	Podium
38	51	<b>Collegial Learning During the Pandemic: Realized Activities and Lessons Learnt</b>	<i>Anna Rosengren, <b>Anders Adlemo</b>, Amjad Zaki Khalil Al-Musaed, <b>Patrick Conway</b>, Åsa Hansen, Leif-Magnus Jensen, Jakob Olofsson, <b>Marisol Rico Cortez</b> and <b>Matilda Svensson Duric</b></i>	CDIO Implementation	Podium
39	52	<b>Do Engineering Students from Vocational and Academic Backgrounds Think Differently ?</b>	<i><b>Gareth Thomson</b> and Mark Prince</i>	Engineering Education Research	Podium
40	53	<b>Do Academic Recruitment Policies under Represent Teaching and Learning Competencies?</b>	<i><b>Gareth Thomson</b> and <b>Klara Kovesi</b></i>	Engineering Education Research	Podium
41	54	<b>Learning Mechatronics Using Digital Live Labs</b>	<i><b>Veronica Olesen</b>, Christian Stöhr, <b>Mikael Enelund</b> and <b>Johan Malmqvist</b></i>	Engineering Education Research	Podium
42	57	<b>Design Process Reporting Tool for Mapping and Performance Optimization</b>	<i><b>Geza Fischl</b> and Bengt Erland Erlandsson</i>	Engineering Education Research	Podium
43	58	<b>7 Year Iterative Improvements in Laboratory Work – Constructive Alignment</b>	<i><b>Asdis Helgadóttir</b></i>	Engineering Education Research	Podium
44	59	<b>Grading Homework as Formative Assignments – the Solution to Cheating?</b>	<i><b>Asdis Helgadóttir</b></i>	Engineering Education Research	Podium



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45	61	Discover Calculus through Original 3D Animated Sitcom “Ratventures”	<b>Yen Ping Chua</b> , Ling Chen Fu, Eric Goh, Ming Ming Boo and Pei Chin Lim	Engineering Education Research	Podium
46	65	CDIO Applied in the Brazilian Engineering Education Law Implementation	<b>Andre Luiz Tenorio Rezende</b> and <b>Ricardo Teixeira da Costa Neto</b>	CDIO Implementation	Podium
47	67	School-wide Strategies for Assessment of Learning Outcomes During COVID-19 Pandemic	<b>Ser Khoon Toh</b> , <b>Chow Leong Chia</b> , Safura Anwar, Andy Ngai and Hua Joo Tan	CDIO Implementation	Podium
48	68	Passion and Choices in Engineering Education through Multiple Pathways	<b>Ser Khoon Toh</b> , <b>Chow Leong Chia</b> , Chung Meng Lau and Hua Joo Tan	CDIO Implementation	Podium
49	69	A School-wide Ecosystem towards Nurturing Students to Become Self-Directed Learners	<b>Ser Khoon Toh</b> , Hua Joo Tan, Safura Anwar and <b>Chow Leong Chia</b>	CDIO Implementation	Podium
50	70	Supporting Engineering Students Learning Mathematical Induction with an Online Tutorial	<b>Mika Gabel</b> , Vladimir Bar Lukianov and Tamar Margalit	Engineering Education Research	Podium
51	72	International Professional Skills: Interdisciplinary Project Work	<b>Thomas Mejtoft</b> , Helen Cripps and <b>Christopher Blöcker</b>	CDIO Implementation	Podium
52	73	Engineering Students' Engagement in a Hybrid Learning Mode: Comparative Study	<b>Sami Asaad</b> , Hassan Salti and Mohamad Farhat	CDIO Implementation	Podium
53	75	Dual Use of Time: Framework for Understanding Possibilities and Pitfalls	<b>Guttorm Sindre</b>	Engineering Education Research	Podium
54	77	Gender Differences in Attitudes towards Engineering Studies and in Graduates	<b>Asrun Matthiasdottir</b> and <b>Haraldur Auðunsson</b>	Engineering Education Research	Podium
55	81	Closing the Gap between Classroom and Reality through Virtual Bridges	Priscilla Navarro, Linnea Haag, <b>Promporn Wangwacharakul</b> and Jason Martin	Engineering Education Research	Podium
56	82	Comparing the CDIO Standards with the Work-Integrated Learning Certification	<b>Thomas Lundqvist</b> , Annabella Loconsole, Ingrid Tano and Andreas de Blanche	Advances in CDIO	Podium
57	85	Development of Professional Capabilities in a Challenge Based Learning Environment	<b>Renate Klaassen</b> and <b>Birgit J.E. de Bruin</b>	Engineering Education Research	Podium
58	86	International Accreditation and CDIO Optional Standards Achievement Levels at UCSC	<b>Claudia Martinez-Araneda</b> , Matilde Basso, Marcia Muñoz and Michelle Bizama	CDIO Implementation	Podium
59	87	Surviving and Thriving in First Year - Supporting Student Experience	<b>Kim Johnston</b> and <b>Robyn Paul</b>	CDIO Implementation	Podium
60	88	Implementing Active Learning in First Year Engineering – a Leadership Perspective	<b>Kim Johnston</b> and <b>Mike Potter</b>	CDIO Implementation	Podium
61	91	Solving Real-World Problems in Accounting Industry Using CDIO Framework	<b>Daryl Aw</b> , Ronnie Hoh, Siew Meng Yew, Germaine Lim and Seow Hui Ho	CDIO Implementation	Podium
62	93	Maximising the Performance of Multi-Diverse Design Teams	<b>Bas Flipsen</b> and <b>Stefan Persaud</b>	CDIO Implementation	Podium
63	94	Exploring Advanced Projects as Meeting-Points between Students and Industry	<b>Fredrik Frisk</b> , <b>Kamilla Klonowska</b> and <b>Daniel Einarson</b>	CDIO Implementation	Podium
64	100	Project Based Learning and Reflection in a Manufacturing Environment	<b>Marijn Zwier</b> , <b>Eric Lutters</b> and <b>Lisa Gommer</b>	CDIO Implementation	Podium
65	101	Integration of Learning and Research in a Multi-Perspective Learning Factory	<b>Eric Lutters</b> , Janneke Massa, Roy Damgrave, Sebastian Thiede and <b>Lisa Gommer</b>	CDIO Implementation	Podium
66	102	Enhancing Students' Competencies by Integrating Multiple Course-Units on Semester Projects	<b>Paulo Maio</b> , Paulo Sousa, Carlos Ferreira and Elsa Gomes	CDIO Implementation	Podium



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67	105	Teaching Design: From Dueling to 'Dualing' Threshold Concepts	<b>Nancy Nelson</b> and <b>Robert Brennan</b>	Engineering Education Research	Podium
68	114	Does a Master's Program in Engineering Require a Final Project?	<b>Haraldur Audunsson</b> , <b>Siegfried Rouvrais</b> , <b>Ralph Rudd</b> , <b>Ragnar Kristjansson</b> and <b>Olivier Matthieu S. Moschetta</b>	Advances in CDIO	Podium
69	115	Rethinking Engineering Internships in Times of Disruptions	Norazrina Muhammad Mustafa, Thijs Willems and <b>Sin Moh Cheah</b>	Engineering Education Research	Podium
70	119	Integrating Gender Equality, Diversity and Equal Conditions in Engineering Education	<b>Marie Magnell</b> , <b>Charlotta Delin</b> , Anders Rosén, Anna Jerbrant, Gunnar Tibert and Carlos Casanueva Perez	Engineering Education Research	Podium
71	121	Peer Review in a Product Development Course – Implementation and Reception	<b>Hanna Jonsson</b> , <b>Elsa Täck</b> , <b>Andreas Eriksson</b> and <b>Erik Hulthen</b>	CDIO Implementation	Podium
72	122	If You Please, Draw Me a Resilient Curriculum!	<b>Siegfried Rouvrais</b> , <b>Inggriani Liem</b> , <b>Haraldur Audunsson</b> and <b>Cecile Gerwel Proches</b>	CDIO Implementation	Podium
73	135	Applying Active Learning in the Electromagnetism Class: A Five-Year Assessment	<b>Jairo A. Hurtado</b> , Manuel R. Perez and Juan M. Cruz	CDIO Implementation	Poster
74	137	Aligning Stakeholder Needs with Program Requirements Using a Multi-Stakeholder Survey	<b>Marta Ormazábal</b> , Nicolás Serrano, <b>Carmen C. Blanco</b> , Fernando Carazo, Javier Aldazábal and Samuel Azasu	CDIO Implementation	Podium
75	144	Analysis of Students' Performance in Capstone Projects According to the..	<b>Ramon Bragos</b> , Guido Charosky, Louay Aoun, <b>Sandra Bermejo</b> and Josep Pegueroles	CDIO Implementation	Podium
76	145	Academic Development Support for Implementing CDIO	Kärt Kase, <b>Tiina Kasuk</b> , Tiia Rüttnann, Kaimo Sonk, Raivo Sell and Ivar Annus	CDIO Implementation	Podium
77	147	Coaching Practices in Challenge-Based Learning: Characteristics and Practices in Projects	<b>Sonia M. Gomez Puente</b> , Karolina Doulougeri and Miguel Bruns	Engineering Education Research	Podium
78	150	Debate as a Tool in Engineering and Sustainability Education	Abed Alaswad and <b>Sarah Junaid</b>	Engineering Education Research	Podium
79	154	Embracing Failure as an Integral Aspect of Engineering Education	Markéta Foley, <b>Joseph Timothy Foley</b> and <b>Marcel Kyas</b>	Engineering Education Research	Podium
80	156	Evaluation of Students' Performance in CDIO Projects through Blended Learning	Soumya Kanti Manna, Najah Battikh, <b>Anne Nortcliffe</b> and Joseph Camm	CDIO Implementation	Podium
81	167	Nordic Cooperation on Course Development in Emerging Field of Engineering	<b>Bjorn Karlsson</b> , Nils Johansson, Michael Försth, Lars Schiött Sörensen and Anne Simone Dederichs	CDIO Implementation	Podium
82	170	Recycling Programs from Engineering for Students and Their Families	<b>Jairo A. Hurtado</b> , Flor A. Bravo and Gloria I. Mestre	CDIO Implementation	Poster
83	171	Teaching Practical Computer Networking with Limited Resources	<b>Jacky Mallett</b> , <b>Marcel Kyas</b> and Stephan Schiffl	CDIO Implementation	Podium
84	172	Using GitHub Classroom in Teaching Programming	<b>Jens Bennedsen</b> , Till Böttjer and <b>Daniella Tola</b>	CDIO Implementation	Poster
85	174	EDUBOX: A Self-Contained Engineering Learning Environment for Underserved Communities	<b>Alberto Martinetti</b> , <b>Peter Chemweno</b> , Eva de Wit, Joëlle Steendam and Ayat Nashwan	CDIO Implementation	Podium
86	177	University and Continuous Engineering Education - Perspectives on Integrating Students	<b>Carin Rösiö</b> , <b>Madelene Zetterlind</b> , <b>Stefan Brolin</b> and <b>Patrik Cannmo</b>	CDIO Implementation	Podium