

CONTROL^{IN}STEEL

Deliverable 4.2: Holding of seminars and workshops

Version: revised for final report 2023-01-15
This deliverable will be updated.



1. Project summary

The project ControlInSteel is a dissemination activity. Focus of the dissemination are advanced control and automation concepts in the downstream process chain of the European steel production.

Today, knowledge engineering is a mature tool for analyzing problem solutions paths chosen by research projects as functions of impact, effort and problems. In ControlInSteel, controlled vocabularies will be developed, extended to taxonomies and ontologies to describe the interplay between chosen method, targeted problem and impact. Outcome of the project will be a systematic analysis which methods have been the most effective ones for reaching the desired impact.

At the center of any dissemination project is the distribution of results. On the one hand by discussing the results found by the ControlInSteel evaluation. On the other hand, by broadening the knowledge about those former project results that are evaluated by the project.

ControlInSteel started within the global COVID-19 crisis. The projects initial plan to conduct face-to-face workshops for the dissemination was slightly changed towards digital workshops and on-demand course material. The project team believes, that with this approach, the dissemination work will be even more reusable for the future.

2. Workshops conducted by ControlInSteel

2.1. Announcement on the web site

The main workshop series was conducted from June to July 2022. The above table contains also the invited participations of the ControlInSteel team. During all these events the valorisation of the reviewed projects was done via talks.

The event

<p>2022-05-11</p> <p>BFI Colloquium (invited steel producers)</p>
<p>2022-05-16</p> <p>EUROSTEELMASTER 2022</p>
<p>2022-06-22 (Brussels)</p> <p>The European Steel Technology Platform (ESTEP)</p> <p>Dissemination Event 2022 - 'Beyond Steel Research Projects'</p>
<p>2022-06-28, 11:00</p> <p>Digitalisation in Steel Industry</p>
<p>07.07.2022, 11:00 - 13:00 OPEN WEBINARS</p> <p>Advanced Control Solutions for Sustainability</p>
<p>13.07.2022, 09:00 - 11:00 OPEN WEBINARS</p> <p>Distributed Autonomous Control Solutions</p>
<p>14.07. 11:00 - 13:20 OPEN WEBINARS</p> <p>The future of control in the steel sector</p>
<p>November 2022 - Final Seminars</p> <p>ControlInSteel will perform a dedicated workshop at the IFAC COSY2022 Workshop end of this year.</p>

Figure 1. List of our dissemination events with the dates and times they took place.

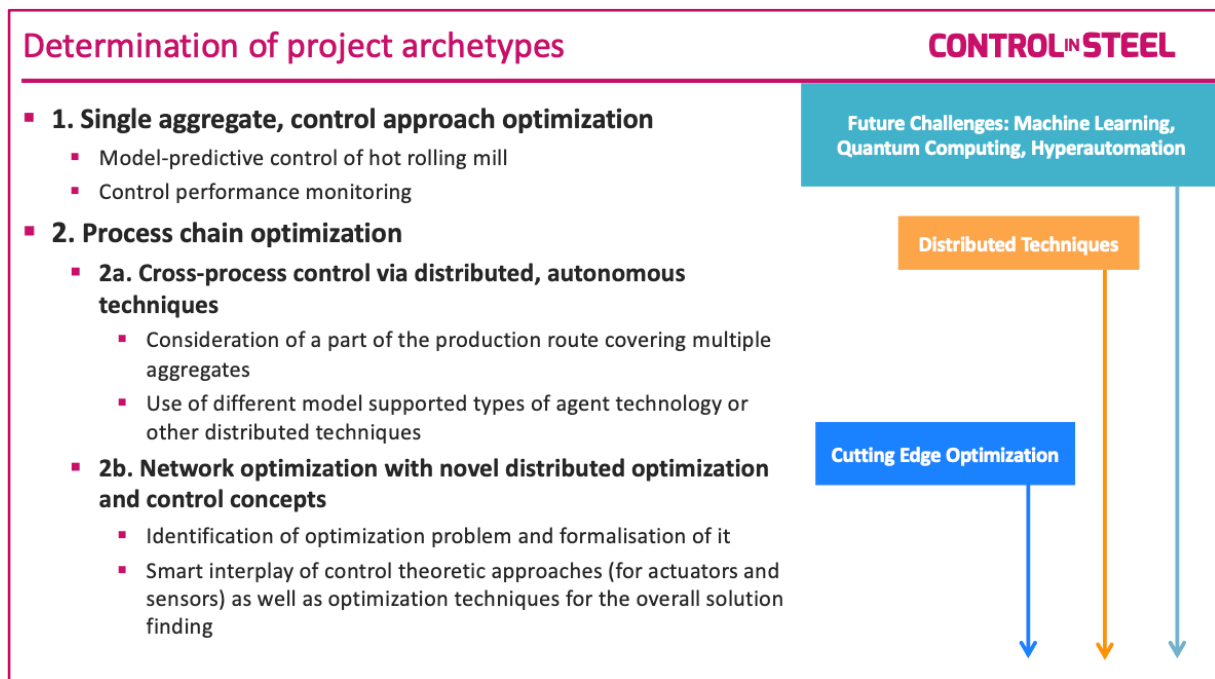


Figure 2. Project archetypes and fields of dissemination extracted from the reviewed projects.

2.2. Audiences of topics

Figure 2 shows a slide that defuses the different types of research projects. All conducted workshops were dedicated to specific fields and audiences. In that sense, the team wanted to address e.g. process chain experts with a dedicated seminar on questions that are related to overarching process control.

Audience types

We distinguish the following audience types for the workshops

- Steel industry stakeholders, decision makers
 - CEOs, managers of steel plants
 - Department heads
 - Staff of the production
 - Critical end users of automation and control solutions
- Researchers in steel research: Optimization
 - Mathematicians
 - Operations research specialists
 - Scheduling experts from steel industry
- Researchers in steel research: Process chain

- Experts for holistic manufacturing in steel plants
- Digital twin developers
- Overarching optimization specialists
- End result stakeholders














Dissemination Events and Target Audience Plan		CONTROL ^{IN} STEEL
<ul style="list-style-type: none"> ▪ Disseminate at conferences, seminars and events with <ul style="list-style-type: none"> ▪ European Steel Technology and Application Days (ESTAD2021)  ▪ BFI Kolloquium (11.05.2022)  ▪ EuroSteelMaster (16.05.2022)  ▪ ESTEP Dissemination Event (22.06.2022)  ▪ EELISA Digitalisation as Key Driver of Steel Industry (28.06.2022)  ▪ ControlInSteel Webinar Series 1. Advanced Control Solutions for Sustainability  ▪ ControlInSteel Webinar Series 2. Distributed Autonomous Control Solutions  ▪ ControlInSteel Webinar Series 3. The Future of Control in the Steel Sector  ▪ IFAC COSY 2022 Dedicated Workshop for ControlInSteel  	<p>Target Audience</p> <ul style="list-style-type: none">  Steel Industry Stakeholders, Decision makers  Researchers in steel research: Optimization  Researchers in steel research: Process chain  Technologists, researchers, project developers 	

Figure 3. Association of the ControlInSteel events to a target audience group.

2.3. Association of the conducted dissemination events onto audience types

In Fig. 3 we show the association of the audience types on the respective dissemination seminar.