



CONTROL TECHNOLOGIES – TECHNOLOGIES THAT MAKE THINGS WORK

The conference has focused on technological priority areas of the cluster coordinated by Competence Centre for Advanced Control Technologies. The technological priority areas of (i) artificial intelligence for control and optimization, (ii) digital twins in technical processes, (iii) energy domain in complex systems, (iv) prognostics and health management of machines and processes, (v) industrial IoT, (vi) integrated MES and (vii) some specific control applications, were overviewed and the challenges in supporting Factories of the Future (FoF) were highlighted. Within this scope, Slovenian companies and research organizations presented their results, which revealed the importance of the selected technological areas for the Slovenian environment.

The broader positioning and financing opportunities within the Slovenian and European landscape were

provided by the introductory key-note presentations, prepared by the Ministry of Education, Science and Sport, EFFRA, Hydrogen Europe and SRIP FoF. Moreover, the importance of facilities for testing, validation and promotion of new technologies was highlighted by two Slovenian demonstration centres on the topics of (i) digital twins and logistic processes and (ii) control technologies, artificial intelligence and hydrogen technologies. Smart energy-management ideas were additionally emphasized by the concept of the green hydrogen prosumer.

The event revealed that prioritized technological areas have a horizontal spread not only within the FoF focus area but also in other cross-section domains. So, these technologies are really horizontal enabling technologies that make things work.

The event would not be possible without the support of the Slovenian companies and research organizations that shared their results and best practices. These are SMM, Yaskawa, Domel, Podkrižnik, Kolektor Sisteh, Metronik, Cosylab, RENN Solutions, Faculty of Electrical Engineering (UL), Faculty of Mechanical Engineering (UL), FERi (UM), Jožef Stefan Institute, National Institute of Chemistry and TECOS.

BUSINESS CARD

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