

DIGITIZED OPERATIONS for SUSTAINABLE PROCESS INDUSTRIES

Plant-wide monitoring and control of data-intensive processes



FUDIPO & COCOP final Workshop

The objective of the workshop is to present the EU perspective on digital operations in process industries and to focus on plant-wide monitoring & control of data-intensive processes, the scope of SPIRE-02-2016 projects. First, the vision on digitization in sustainable process industries for Horizon Europe will be presented by Angels Orduña (**A.SPIRE's** Executive director).

The four projects of the SPIRE-02-2016 call (COCOP, FUDIPO, COPRO and MONSOON) will introduce their vision, objectives and outcomes through technical presentations. Specific focus will be put on **COCOP** and **FUDIPO** that will present the solutions implemented for different process industry (Steel, Copper, Pulp & Paper, Oil Refining, Heat and Power plants and Waste-Water treatment), evaluating their impact on quality and resources/energy efficiency and analysing their transferability to other sectors. Goals and results of MORSE project (SPIRE-07-2017) will be also presented to foster synergies between SPIRE projects. The workshop will also include a **poster session**.

Attendance at the workshop is FREE, but the number of participants is limited. Please, register before 14th February following link:

<https://forms.gle/dmcXurjXj2v9Whw88>

Workshop Organization Committee:

Matti Vilkkio (Tampere University) - matti.vilkkio@tuni.fi
Erik Dahlquist (Mälardalen University) - erik.dahlquist@mdh.se

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Venue:

Sozialforschungsstelle (sfs)
TU Dortmund University
Evinger Platz 17, Dortmund,
Germany

Date:

11th March 2020, 8:30 – 17:00





Venue: Sozialforschungsstelle (sfs) – TU Dortmund University
Evinger Platz 17, Dortmund, Germany

Date: 11th March 2020, 8:30 – 17:00



Programme of the Workshop

Time	Topic	Speaker
8:30	Registration	
9:00	Welcome and agenda review	
9:15	Scope of the SPIRE-02-2016 call	Matti Vilkkö (Tampere University) Erik Dahlquist (Mälardalen University)
09:30	SPIRE – Digitalizing the process industry – Horizon Europe	Angels Orduña (A.SPIRE's Executive director)
10:00	COCOP - Coordinating Optimisation of Complex Processes	Matti Vilkkö (Project Coordinator) (Tampere University)
10:30	FUDIPO - FUTURE Directions of production Planning and Optimized energy- and process industries	Erik Dahlquist (Project Coordinator) (Mälardalen University)
11:00	Coffee Break	
11:30	CoPro - Coordinated Production for Better Resource Efficiency	Sebastian Engell (Project Coordinator) (TU Dortmund)
12:00	MONSOON - MODEL-based coNTrol framework for Site-wide Optimization of data-intensive processes	Claudio Pastrone (Project Coordinator) (ISMB)
12:30	MORSE - Model-based optimisation for efficient use of resources and energy	Martin Schlautmann (BFI)
13:00	Lunch Break	
14:00	COCOP – Presentation of use cases, impact evaluation and potential transferability	Antonius Schröder (TU Dortmund) Mikko Korpi (OUTOTEC) Félix Bayón (SIDENOR) Rob Meier
15:00	FUDIPO – Presentation of use cases, impact evaluation and potential transferability	Elena-Tomas-Aparicio (Malarenergi) Christian Wallin (ABB) Par Johnson (Billerud-Korsnas) Elif Erdinc & Ocan Şahin (Tupras) Mark Oostveen (MTT)
16:00	Poster Session	
16:45	Wrap up and closure	Matti Vilkkö (Tampere University) Erik Dahlquist (Mälardalen University)