



Project number: 826276

CPS4EU

Cyber Physical Systems for Europe

D10.33 – Report on the publications v3

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Dissemination level: Public

Version	Date	Author (name – company)	Comments
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1. INTRODUCTION

The CPS4EU project aims at fostering innovation that will maintain and strengthen European leadership in key sectors of the economy by creating synergies between SMEs, large companies and large research organizations operating in the CPS sector. In order to reach this objective and to ensure that CPS4EU results have a resounding impact, the partners of the project have put in place a dissemination and communication plan to promote the CPS4EU project and the results that arise from the joint effort in the project.

This document constitutes the deliverable D10.33 of CPS4EU and reports the publications done during the project. This document is the third and last report on the publications. In the Full Project Proposal, the Key Progress Indicator KPI-4.1 defines the objectives for the Scientific and Sectorial dissemination. The goal is to reach over 100 scientific publications and conference papers in the CPS4EU scientific disciplines and market segments. Promotion of use cases results using diverse dissemination and communication channels is also part of the activities of WP10.

This report presents the results in the following fields of dissemination

- Scientific and technical dissemination in the “JOURNAL PUBLICATION” section,
- Technical and professional dissemination in the “CONFERENCE PARTICIPATION & SPECIAL EVENT” section,
- Large audience and other dissemination media in the “PRESS, WEB POSTS & OTHERS” section.

Since April 2021, webforms have been deployed to collect partners publications, events participations and patents. Webforms are accessible through this link: <https://www.2iaconsulting.com/project-cps4eu/>

2. JOURNAL PUBLICATION

Partner has submitted their paper with the following webform: <https://www.2iaconsulting.com/project-cps4eu/#publications>

All publications are collected by the PCO and transferred to TPC for validation.

Publications are also accessible through this link: <https://airtable.com/shrH1mh5Cv8LYcEoo/tbln9hivFWSePKrF1>

In total, 70 publications have been published since the beginning of the project.

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4 hidden fields Filter Group Sort ...

Id	Type	Title	Authors	Title of the journal/proc...	Date or freq of the journ...	Peer-reviewed	Open Access	Joint public/private
45	Publication in Con...	Investigating Process Algebra Models to Represent Structured Requirements for Tim...	Mathilde Arnaud, Boutheina Bannour, Arnault L...	Proceedings of the 33rd Int...	2021	✓	Gold Open Access	✓
46	Publication in Con...	Evaluating Handover Performance for End-to-End LTE Networks with OpenAirInterfa...	Rodolphe Bertolini, Mickael Maman	IEEE Vehicular Technology ...	27 - 30 September 2021	✓	No	
47	Publication in Con...	Error Structure Aware Parallel BP-RNN Decoders for Short LDPC Codes	Joachim Rosseel, Valérian Mannoni, Valentin Sa...	IEEE International Symposi...	August 30 - September 3, 2...	✓	No	✓
48	Publication in Con...	Power Congestion Management of a sub-Transmission Area Power Network using P...	Duc-Trung Hoang, Sorin Olaru, Alessio Iovine, J...	MED2021 29th Mediterran...	Annual	✓	Green Open Access	
49	Publication in Con...	Predictive Control for Zonal Congestion Management of a Transmission Network	Duc-Trung Hoang, Sorin Olaru, Alessio Iovine, J...	Control and Decision Conf...	13/12/2021	✓	Green Open Access	
50	Publication in Con...	Analysis of on-chip communication properties in accelerator architectures for deep ...	Hana Krichene, Jean-Marc Philippe	NOCS '21: Proceedings of t...	October 2021		Green Open Access	
51	Article in Journal	Sequans Delivers Industry's First Common Criteria EAL5+ Certified Cellular IoT Platfo...	Sequans communications	Press Release on www.sequ...	December 2021		Green Open Access	✓
52	Publication in Con...	Understanding interdisciplinarity in European projects	J.Delsing, P.Gougeon, M.Karner	Inside Magazine	Quarterly		No	✓
53	Publication in Con...	Offline segmentation of spatio-temporal order trajectories by mixed-integer linear p...	Maximilian Volk, Carina Mieth	Procedia CIRP	yearly	✓	Gold Open Access	
54	Publication in Con...	Advanced management of network overload in areas with Renewable Energies Sour...	Thanh-Hung Pham, Alessio Iovine, Sorin Olaru, ...	IFAC-CPES 2022 11th Symp...	21/06/2022	✓	Green Open Access	✓
55	Publication in Con...	Nonlinearity Handling in MPC for Power Congestion Management in Sub-Transmissi...	Pham, Thanh Hung (CNRS - CentraleSupélec), I...	18th IFAC Workshop on Co...	Annual	✓	Green Open Access	✓
56	Article in Journal	Self-adaptive Security in CPS : Application to Smart Grids	Salim Chehida, Eric Rutten, Stéphane Mocanu (I...	To be confirmed after sub...	2023	✓	Green Open Access	✓
57	Article in Journal	Pour un développement accéléré des systèmes cyberphysiques	Etienne Hamelin	Industrie Technologies	Octobre 2022		No	
58	Publication in Con...	Une approche de génération automatique de configuration basée sur les modèles p...	M. Samson, T. Vergnaud, E. Dujardin, L. Ciarlett...	Actes de l'École d'été Temp...	Every 2 years	✓	Gold Open Access	
59	Publication in Con...	IEEE 802.1 TSN Time Synchronization over Wi-Fi and 5G Mobile Networks	MT Thi, S Guédon, SBH Said, M Boc, D Miras, J-...	IEEE VTC2022-Fall	Sept 2022	✓	No	
60	Publication in Con...	Predictive control based on stochastic disturbance trajectories for congestion mana...	Nouha Dkhili, Sorin Olaru, Alessio Iovine, Manu...	IFAC-PapersOnLine, Volum...	18-22 July 2022	✓	Gold Open Access	✓
61	Publication in Con...	A Model-Based Approach to Automatic Generation of TSN Network Simulations	M. Samson, T. Vergnaud, É. Dujardin, L. Ciarlett...	IEEE 18th International Con...	Annual	✓	No	
62	Publication in Con...	Transferable and Distributed User Association Policies for 5G and Beyond Networks	M. Sana, N. di Pietro, E. Calvanese Strinati	IEEE International Symposi...	September 2021	✓	Green Open Access	
63	Article in Journal	Stochastic Geometry Framework for Ultrareliable Cooperative Communications With...	G. Ghatak, S. R. Khosravirad, A. De Domenico	IEEE Internet of Things Jour...	April 2022	✓	No	
64	Article in Journal	Design and Analysis of MIMO Systems Using Energy Detectors for Sub-THz Applicat...	S. Bicalis, A. Falempin, J.-B. Doré, V. Savin	IEEE Transactions on Wirele...	June 2022	✓	No	✓
65	Article in Journal	Discontinuous Computation Offloading for Energy-Efficient Mobile Edge Computing	M. Merluzzi, N. Di Pietro, P. Di Lorenzo, E. Calva...	IEEE Transactions on Green ...	June 2022	✓	No	
66	Publication in Con...	Dynamic Resource Scheduling Optimization for Ultra-Reliable Low Latency Commun...	L. N. Dinh, R. Bertolini, M. Maman	IEEE International Symposi...	September 2022	✓	No	
67	Publication in Con...	Quantization of Neural Network Demapper for sub-THz communications	A. Falempin, J.-B. Doré, T. D. Nguyen, J. Schmitt	IEEE Vehicular Technology ...	September 2022	✓	No	
68	Publication in Con...	From Operational Scenarios to Synthetic Data: Simulation-Based Data Generation fo...	Siddhartha Gupta, Umut Durak, Oliver Ellis, Chri...	AIAA Scitech Forum	2022		Green Open Access	
69	Publication in Con...	Demonstrating The MAAT REQ Tool: Using Algebraic Process Models To Support Ti...	Boutheina Bannour, Arnault Lapitre, Patrick Tess...	IEEE Real-Time Systems 43r...	05/12/2022-08/12/2022	✓	Gold Open Access	✓

69 records Sum 2854

Publications list – Airtable Screenshot

3. CONFERENCE PARTICIPATION & SPECIAL EVENT

Partner has submitted their participation in events with the following webform (): <https://www.ziaconsulting.com/project-cps4eu/#dissemination>

Events participations are also accessible through this link (only the 3rd year of the project): <https://airtable.com/shrgDzsqYpQj1UIhk/tblrfCUUDHURNO2XY>

During the third year of the project, partners have participated in 31 events.

Name of event	Date	Location	CPS4EU participants	N. of attendees	Dissemination activity							
					Attendance	Abstract submission	Paper submitted	Poster submitted	Lecture / PPT presentation	Brochure / Newsletter distribution	Video / DEMO	Booth/stand
Webinaire les systèmes cyber-physiques, au cœur de la révolution industrielle	14/10/2021	Online	VALEO, RTE	25					X			
ECE Tech - Embedded systems programming course	12/11/2021	ECE Paris	CEA	26					X			
PGMO Days - Fondation Mathématique Jacques Hadamard - FMJH	1/12/2021	EDF'Lab - Palaiseau	RTE	150					X			
POEMA Industrial Workshop	13/12/2021	Sophia-Antipolis, France	RTE	50	X				X			
SIDO Paris	9/11/2021	Paris Palais des Congrès	ACOEM, YUMAIN, EMBEDDED FR,	5500	X							X

			JESSICA FR, PROVE & RUN, SYSNAV, TRT									
SIDO Lyon	22/9/2021	Cité internation ale Lyon	YUMAIN, RTE	7100	X							X
Webinar Cinestic	14/10/2021	Online	VALEO, RTE	50					X			
EF ECS 2022	23/11/2021	On line	VALEO, CEA	100	X				X		X	X
Big Data Value Forum	1/12/2021	On line	VALEO	2000					X			
DSD2021	1/9/2021	On line	VALEO	100			X		X			
Assises de l'Embarqué 2021	12/1/2022	Paris Ministère Bercy + You Tube channel	VALEO, EMBEDDE D FR, JESSICA FR, ANSYS, CEA	108					X			
HIPEAC-Drone SE webinar	17/1/2022	Zoom	VALEO, CEA	29					X			
Conference on Complex Systems 2020	9/12/2020	Online	RTE	55					X			
Workshop of the RTE Chair at CentraleSupélec	16/6/2021	Gif sur Yvette	RTE, CNRS	40	X				X			
POEMA industrial workshop	13/12/2021	Sophia Antipolis	RTE	60					X			
Control and Decision Conference, 2021	13/12/2021	Austin, USA	RTE, CNRS	500			X		X			

OSMOSE H2020 General Assembly	25/3/2022	Paris La Défense - RTE premises	RTE	70					X			
Webinar Edge computing & smart grids_Think Smartgrids_6 avril 2022	6/4/2022	On-line	RTE	72					X			
Tecnologie dell'informazione e della comunicazione per Industria 4.0	9/4/2022	Genova	LEONARDO	29	X				X		X	
ECS Brokerage event	4/5/2022	Brussels	VALEO	200					X			
IoT-MtoM	29/6/2022	Paris	CEA, EMBEDDED FR	20					X			
CEA LETI Innovation Days	21/6/2022	Grenoble, France	CEA	500								X
ERTS2022	1/6/2022	Toulouse, France	CEA	300			X					
IFAC-CAO 18th workshop on Control Applications of Optimization	18/7/2022	Gif-sur-Yvette	RTE	82	X				X			
Embedded World Congress	21/6/2022	Nuremberg	VALEO, PROVE & RUN, EMX, UnA, WIKA	18000	X						X	X
Summer School - Smart Systems Integrated Solutions	25/8/2022	Lake Balaton (Hungary) and Teams	VALEO, BME, SPINSPLIT	25					X			
Congrès SIDO	14/9/2022	Lyon	VALEO, JESSICA FR, PROVE & RUN, SEQUANS	12000	X				X			X

ENLIT Europe	30/11/2022	Frankfurt, Germany	RTE	10000	X				X			
2nd year thematic session - Digital technology at the service of the energy transition and electrical networks	19/9/2022	CentraleSu pélec, Gif/Yvette, France	RTE	50					X			
IOTE Exhibition	18/8/2021	Shenzen (China)	GWT	150					X			
AIAA SciTech Forum	6/1/2022	Online	TUC	20					X		X	

4. PRESS, WEB POSTS & OTHERS

The items and the table below list the press, web post and other dissemination actions that promoted the activities performed in the first year of the project.

CPS4EU website: <https://www.cps4eu.eu>

CPS4EU LinkedIn group: <https://www.linkedin.com/groups/12372370/>

Other references:

<https://industry4e.eu/project/cps4eu/>

<https://artemis-ia.eu/project/185-CPS4EU.html>

Partners website:

<https://www.se.com/ww/en/work/products/medium-voltage-switchgear-and-energy-automation/r-and-d-projects/cps4eu.jsp>

<https://www.vicomtech.org/en/rdi-tangible/projects/project/cyber-physical-systems-for-europe>

https://www.emmtrix.com/news/emmtrix-technologies-receives-funding_cps4eu.html

<https://www.iti.es/proyectosidi/cps4eu/>

<https://www.leonardocompany.com/en/news-and-stories-detail/-/detail/cps-and-industry-automation-leonardo-participates-in-the-cps4eu-project>

<https://rtechair.fr/related-joint-research-initiative/>

<https://assets.rte-france.com/prod/public/2021-04/Bilan%20R%26D%202019.pdf>

<https://www.entreprises.gouv.fr/fr/numerique/enjeux/cps-eu>

News :

<https://www.usinenouvelle.com/article/les-systemes-cyberphysiques-un-volet-cle-de-l-industrie-4-0-affirme-cedric-demeure-president-d-embedded-france.N783149>

5. IMPACTS

As previously mentioned, 2 KPIs were proposed in the FPP to assess the impact dissemination actions:

- KPI-4.1: More than 100 scientific publications and conference papers in the CPS4EU scientific disciplines and market segments have been released
- KPI-4.2: At least 800 SMEs from all over Europe are aware of the CPS technology developed in CPS4EU

With 70 papers and articles, and the attendance to 31 technical and professional events to promote works done within the frame of CPS4EU, the KPI4.1 is reached. Also, the total number of attendees to the technical and professional events is over 800. Even considering overlaps of audience, we are confident that the objective of KPI-4.2 is reached.