UNIVERSITÄT SIEGEN

Co-funded by the Erasmus+ Programme of the European Union

Master of Cyber Physical Systems

International Master of Science on Cyber Physical Systems

Online Publishing Report
D5.2

Project Acronym	MS@CPS	**Project Number**	598750-EPP-1-2018-1-DE-EPPKA2-CBHE-JP
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Version History

Version No.	Date	Change	Editor(s)
0.1	10/07/2020	Initial draft	Ezzaldeen Edwan
0.2	25/08/2020	Adding information about the online open info day event schedule	Ezzaldeen Edwan
0.3	31/08/20 20	Reporting open info day and last online covering	Ezzaldeen Edwan
0.4	28/10/20 20	Final modifications after internal review	Ezzaldeen Edwan

Contributors

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Disclaimer

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1 Introduction

1.1 Abstract

The Online Publishing Report (OPR) provides a report on the online publishing activities in the first half of the Erasmus+ MS@CPS project. The activities focused on the launching of the project Website, creation of social media pages and updating them, issuing press releases, creating graphical designs and issuing newsletters. The website and social media pages are updated regularly with all activities conducted or all events held by the partners to make the project known. Creating graphical designs for events which were promoted online is important for the success of the project events. As the resources dedicated to dissemination are restricted, cost-effective ways were chosen to achieve a maximum publicity for the project and its results.

1.2 Objective

The objective of the Online Publishing Report (OPR) is to report about organized online activities during the first year in order to promote the exploitation of the project results and the widest dissemination of knowledge from the project.

PTC, who is coordinating WP5 and this deliverable, managed the reporting of all activities in this regard. However, all project partners are involved in dissemination and exploitation activities to support access, foster awareness, and transfer results for impact, especially in their own countries and in their own communities. It will be reviewed throughout the project in order to assess the effectiveness of different dissemination activities.

1.3 Terminology

Accreditation: is a process of validation in which colleges, universities and other institutions of higher learning are evaluated. The standards for accreditation are set by a peer review board whose members include faculty from various accredited colleges and universities. In this report, we focus on accreditation of a study program.

CPS: Cyber-Physical Systems

DEP: Dissemination and the Exploitation Plan

OPR: Online Publishing Report

Partner Countries: Countries where the program to be implemented (Palestine, Tunisia, Jordan)

Program Countries: EU partners (Germany, Sweden, UK)

Program: The master program (CPS) to be implemented.

SharePoint: a commercial web-based collaborative platform offered by Microsoft company.

1.4 MS@CPS Stakeholders

MS@CPS targets a wide range of stakeholders from the following target groups from academia as well as industry:

- Graduates in computer engineering, electronic engineering, mechatronics, information technology and computer science or other related by fields.
- Academic staff and scientific community in the aforementioned fields.
- Industrial communities, mainly companies in the field of embedded hardware and software.

1.5 Relation to other deliverables

The first edition of the OPR reports the progress in online publishing activities during the first year of the project. Thus, the deliverables D5.1, D5.2 and D5.3 are related to this deliverable.

D5.1: Dissemination and exploitation plan, D5.2 reports on progress of implementing the electronic publishing in the plan described in D5.1.

D5.6: First year dissemination and exploitation report. D5.2 is the online publishing report and it differs from D5.6 report in that D5.2 covers first half of the project while the D5.6 focuses on the first year only. Moreover, D5.6 reports on all dissemination and exploitation activities while D5.2 focuses only on online activities, which include publishing at the project website and its social media pages or at other related websites, e.g., news websites, partner universities websites.D5.4: Follow up seminars and open info day, D5.2 reports on a schedule of open info days and seminars at all partner universities. Moreover, D5.2 reports on the details of holding the open info day as it becomes an online event due to COVID-19 pandemic.

1.6 Relation to work packages

The dissemination relies on inputs from activities of all work-packages to cover them in the media and make the society aware of them. The exploitation and online publishing activity of accreditation is dependent on work-package 2 as it needs a study plan of all courses for accreditation.

2 Progress in Implementation of Publishing

2.1 Objective

Online publishing activities ensure the establishment of collaborative links with the academic community through the organization of workshops, seminars, open days and contact with other related projects. With the resulting situation from the new pandemic COVID-19, the consortium had to convert some planned physical events into virtual ones e.g., meetings, open days, training sessions, and such exceptional situation increased the importance of virtual activities.

2.2 Target audience

The MS@CPS dissemination strategy covers both internal and external communication and dissemination, each of which is discussed below. For internal purposes, this dissemination plan provides members of the MS@CPS consortium with an effective and efficient blueprint to follow on disseminating the work and the results of the project. Internal communication will be conducted via SharePoint, email list, monthly teleconferences, and monthly meetings. Shared documents, including administrative project documents, templates, reports and publications, are stored and shared via SharePoint platform, giving all partners access all the time. The project website in contrary focuses on external audiences and provides open access to external users.

The external objectives of the MS@CPS dissemination plan are elaborating the consortium's strategy for dissemination activities and engaging stakeholders. Dissemination activities will mainly target the following groups:

- Spread project results along with the gained experience within the project consortium and outside the project consortium to potential universities and industrial stockholders.
- Organize informative sessions, such as open house days at partner universities to acquaint future potential students and academic staff with the project.

- Continuous contact with local industry by all partners in the corresponding partner countries.

2.3 Online Publishing

2.3.1 Website

Project website is available to make the public aware of the activities that have been undertaken in the framework of the MS@CPS project. During the first quarter of the project life-cycle, the official project website was launched at the dedicated project domain: http://www.ms-cps.eu. The website contains all the necessary information regarding the project objectives, the consortium, reporting of the project results and the deliverables, press material that has been/or will be released, related publications and presentations, news and contact information. A screenshot of the main page of the official project website is presented in Figure 1.

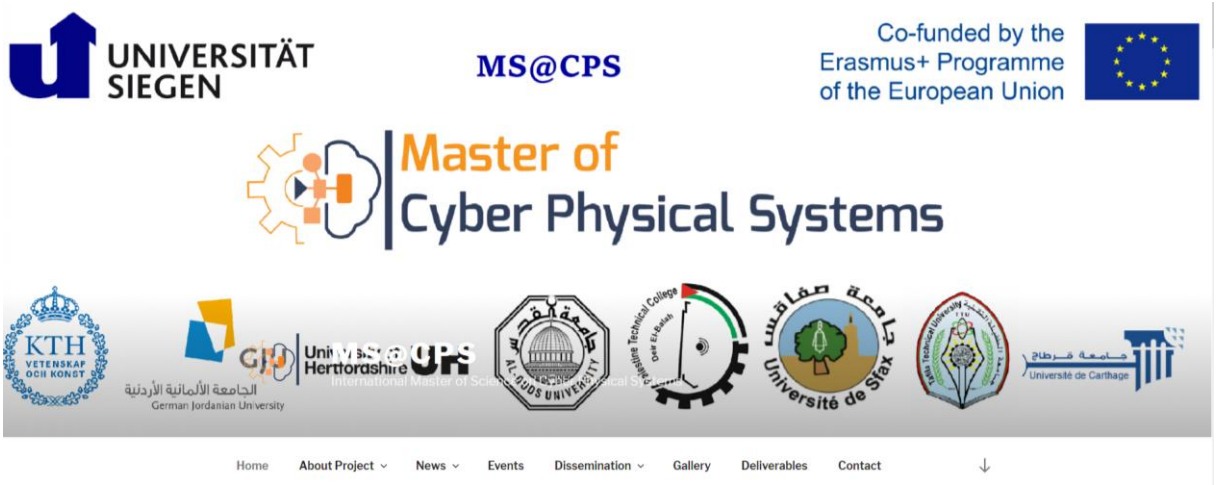


Figure 1 Screenshot of the official project website

The dedicated MS@CPS website – www.ms-cps.eu – is set up following the EU Project Websites – Best Practice Guidelines. The website plays an important role in dissemination, which includes:

- Information about MS@CPS and its activities including contact details, background information, events (seminars, workshops, meetings) etc.
- Instructional materials as discussed above (the web in this respect acts as a principal means of publication).
- Frequent news and updates to keep the community informed.

For internal communication, a web-based collaborative platform (SharePoint) offered by the IT department of University of Siegen is used by MS@CPS members as the principal means of distributing administrative, policy, and procedural documents. A screenshot of the used SharePoint platform is shown in Figure 2.

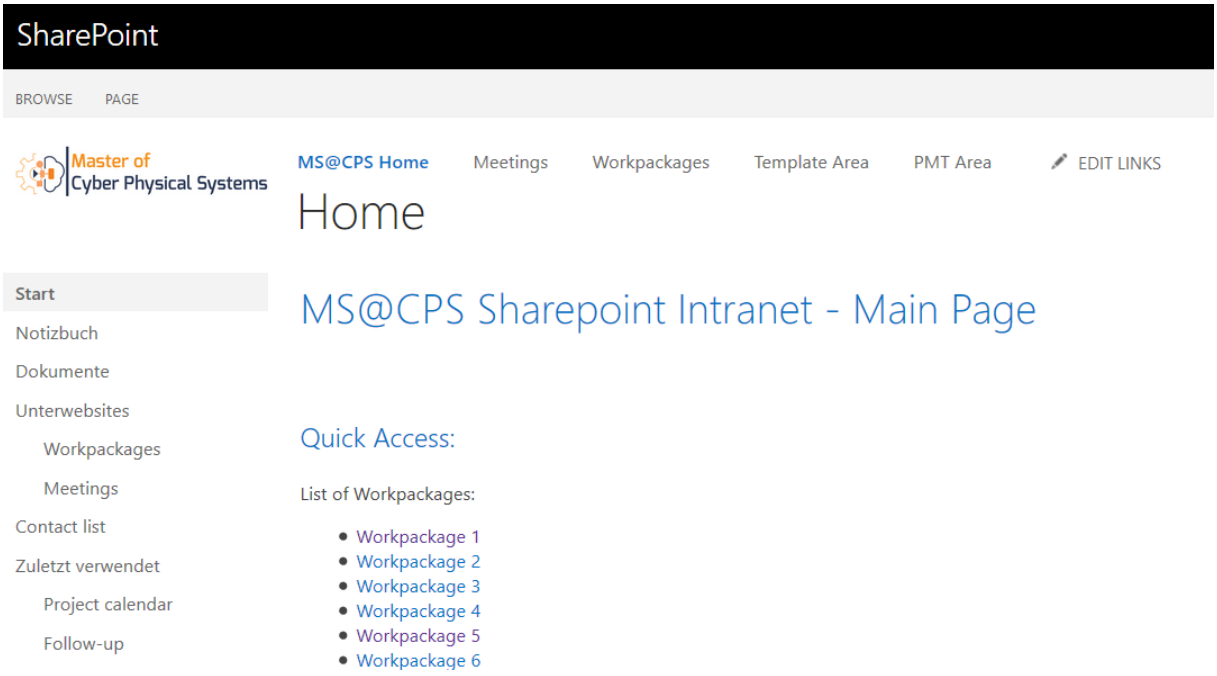


Figure 2 Screenshot of SharePoint Platform

The platform is password protected, so that internal documents and material may be accommodated and thus made accessible to selected individuals and/or groups.

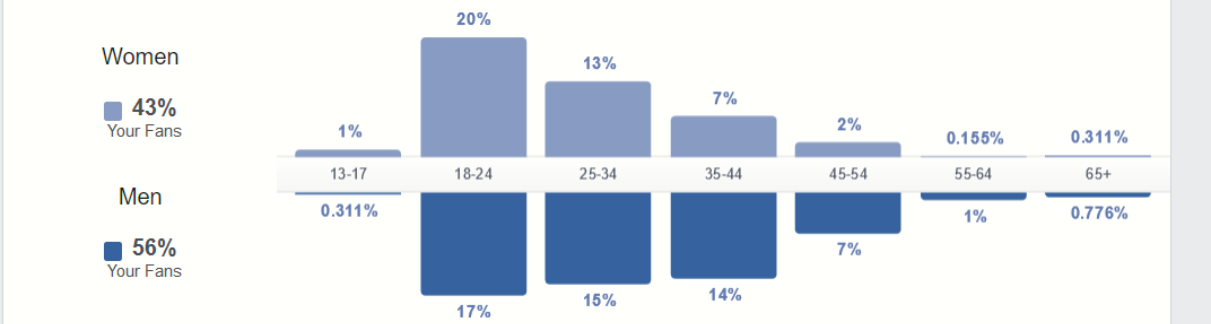
2.3.2 Social Media

Social networking is part of the MS@CPS communication strategy. Currently, Facebook and LinkedIn are used to disseminate relevant information. The Facebook constituted an interactive dissemination tool for project's word and activities. The Facebook page at the issuance of this report reached 663+ and LinkedIn page 150 followers all of whom are organic. Workshops, face to face meetings, monthly teleconference meetings and project news are covered within the Facebook page. All posts which are published on Facebook page are published as well on the LinkedIn page with same contents to achieve the most possible visibility. Figure 3 and Figure 4 show screenshots of Facebook and LinkedIn pages respectively.

Figure 3 Screenshot of the project's official Facebook page

Figure 4 Screenshot of the project's official LinkedIn page

Figure 5 shows some of recent insights about followers of the Facebook page as of 30th August 2020. It shows gender distribution of followers, their geographical locations and their age distribution.



Country	Your Fans
Palestine	293
Tunisia	189
Jordan	79
Germany	9
Israel	8
India	8
Saudi Arabia	6
United States of America	6

City	Your Fans
Gaza	214
Sfax, Tunisia	73
Amman, Jordan	39
Tunis, Tunisia	38
Ramallah	21
Bethlehem	15
Khan Yunis	12
Bizerte, Tunisia	10

Language	Your Fans
Arabic	218
English (US)	178
French (France)	174
English (UK)	58
Portuguese (Brazil)	4
German	4
Indonesian	2
Spanish	1

Figure 5 Screenshot of recent insights about followers of the Facebook page.

Figure 6 shows followers growth at project's Facebook page in the past 12 months as of 30th August 2020 and Figure 7 shows follower growth at LinkedIn in the past 12 months as of 30th August 2020.

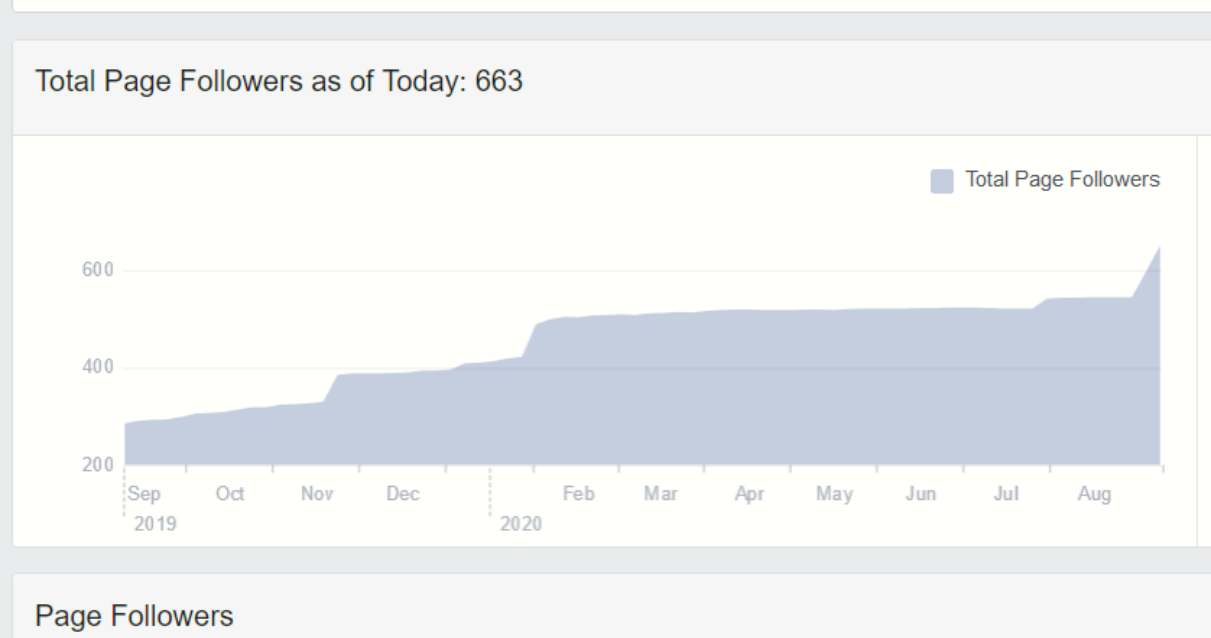


Figure 6 Screenshot of total Facebook page follower in the past 12 months

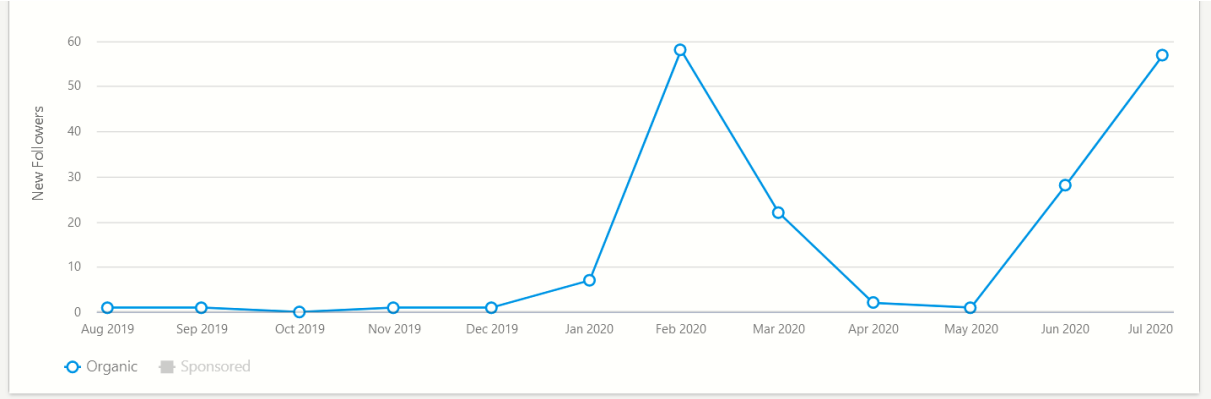


Figure 7 Screenshot of the project's official LinkedIn page for display the follower's analytics (last 12 months)

Figure 8 shows followers demographics according to industries as of 30th August 2020.

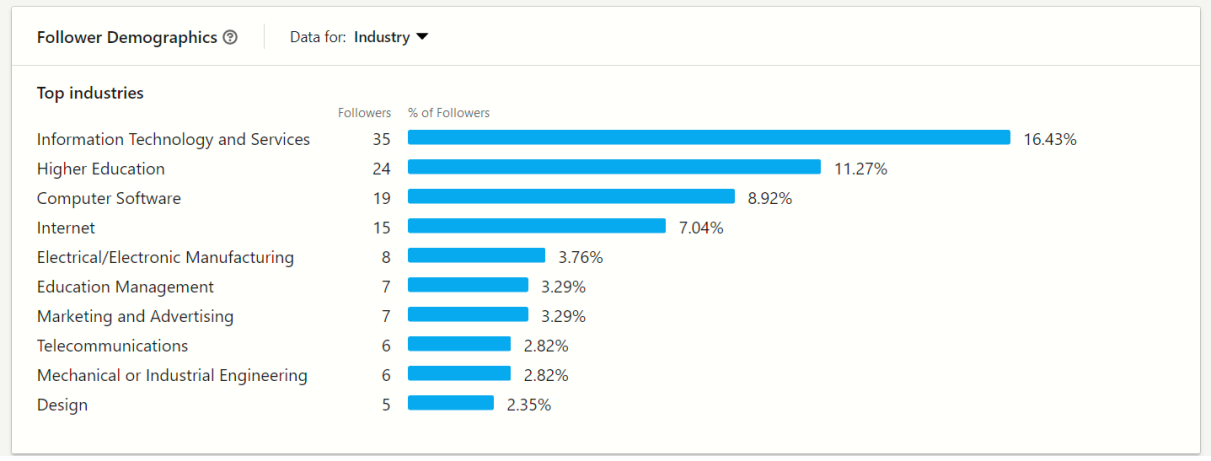


Figure 8 Screenshot of the project's official LinkedIn page for display the user on industries

Figure 9 shows followers demographics according to job functions as of 30th August 2020.

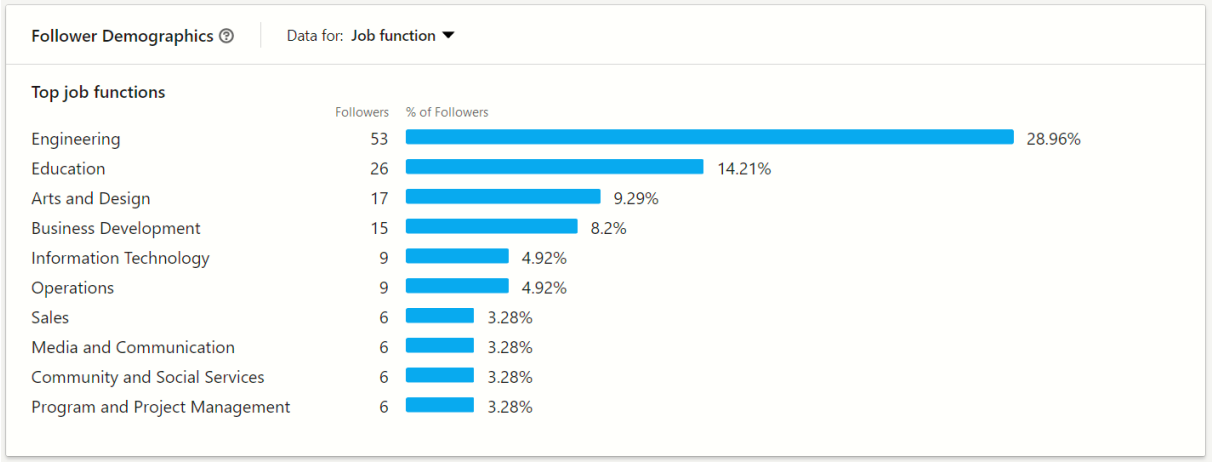


Figure 9 Screenshot of the project's official LinkedIn page for display sorting of users on job functions

Figure 10 shows followers of LinkedIn page for aggregate desktop and mobile traffic as of 30th August 2020.

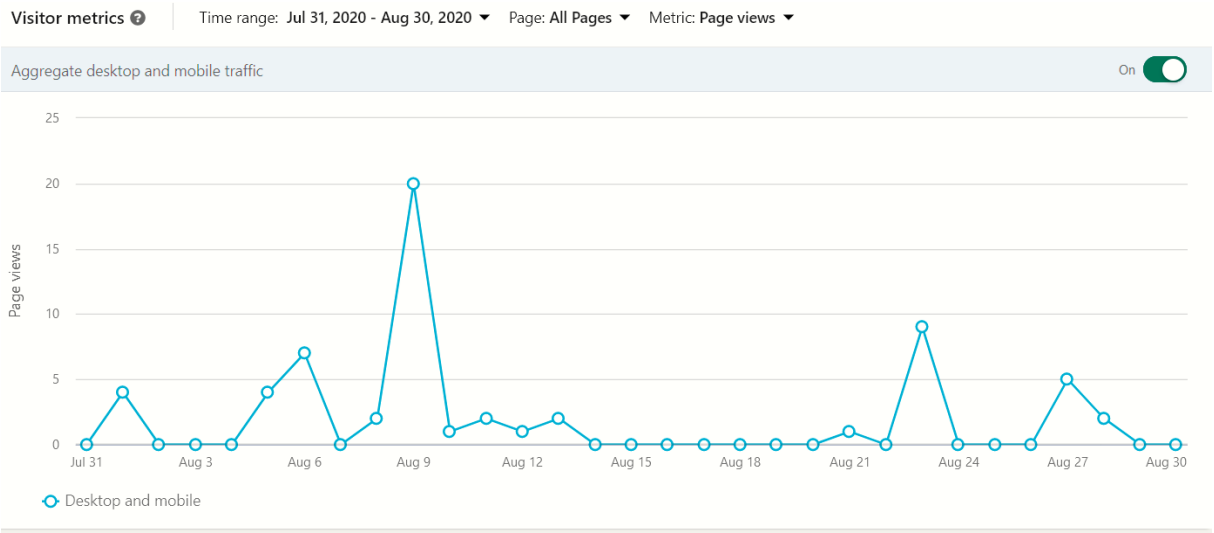


Figure 10 Screenshot of the project's official LinkedIn page for aggregate desktop and mobile traffic

It is evident that the project's social media pages are attracting a growing interest from specialized people and they are following project's progress.

2.3.3 List of all published online posts at the project dissemination channels (Website, Facebook and LinkedIn)

In this part we list all posts that we did since the start of the project to cover activities done by consortium partners as shown in Table 1.

Table 1: List of online posts covering activities at project dissemination channels (Project Website, Facebook page, and LinkedIn)

Date of activity	**Post title**	**Post links**
6/2/2019 Post date	kick-off meeting of the	

17/3/2019	Erasmus+ MS@CPS	https://blogs.uni-siegen.de/ms-cps/kick-off-meeting-siegen-on-6th-7th-of-feb-2019/ https://www.facebook.com/MSCPS.EU/posts/325753341410021 https://www.linkedin.com/feed/update/urn:li:activity:6551566434890317824
23/4/2019 Post date 28/4/2019	Industry Workshop at Al-Quds University	https://blogs.uni-siegen.de/ms-cps/2019/04/28/industry-workshop-at-al-quds-university/ https://www.facebook.com/MSCPS.EU/posts/343605332958155 https://www.linkedin.com/feed/update/urn:li:activity:6551567697333882880
16/5/2019 Post date 20/5/2019	Industry Workshop at University of Sfax	https://blogs.uni-siegen.de/ms-cps/2019/05/20/industry-workshop-at/ https://www.facebook.com/MSCPS.EU/posts/354438191874869 https://www.linkedin.com/feed/update/urn:li:activity:6551569965634453504
16/5/2019 Post date 19/5/2019	Industry Workshop at PTC	https://blogs.uni-siegen.de/ms-cps/2019/05/19/industry-workshop-at-ptc/ https://www.facebook.com/MSCPS.EU/posts/354044055247616 https://www.linkedin.com/feed/update/urn:li:activity:6551568601328029696
29/5/2019	Industry Workshop at Carthage University	https://blogs.uni-siegen.de/ms-cps/2019/07/13/333/ https://www.facebook.com/MSCPS.EU/posts/384018785583476 https://www.linkedin.com/feed/update/urn:li:activity:6555919199343128576

25/6/2019	F2F meeting at GJU	https://blogs.uni-siegen.de/ms-cps/2019/06/26/250/ https://www.facebook.com/MSCPS.EU/posts/374397213212300 https://www.linkedin.com/feed/update/urn:li:activity:6551572823150854144
17/9/2019	The monitoring visit to Al-Quds University (AQU)	https://blogs.uni-siegen.de/ms-cps/2019/09/17/the-monitoring-visit-to-al-quds-university-aqu/ https://www.facebook.com/MSCPS.EU/posts/417799842205370 https://www.linkedin.com/feed/update/urn:li:activity:6579800980110618624
30/9/2019	online workshop of curriculum development at WP2	https://blogs.uni-siegen.de/ms-cps/2019/10/01/continue-online-workshop-of-curriculum-development-at-wp2/ https://www.facebook.com/MSCPS.EU/posts/425439531441401 https://www.linkedin.com/feed/update/urn:li:activity:6584549561338077184
16/10/2019	Presenting MS@CPS at Erasmus+ Info Day 2019 – Ramallah, Palestine	https://blogs.uni-siegen.de/ms-cps/2019/10/19/presenting-mscps-at-erasmus-info-day-2019-ramallah-palestine/ https://www.facebook.com/MSCPS.EU/posts/437201843598503 https://www.linkedin.com/feed/update/urn:li:activity:6591357824989831168
26/10/2019	MS@CPS paper at ICPET 2019	https://blogs.uni-siegen.de/ms-cps/2019/10/26/439/ https://www.facebook.com/MSCPS.EU/posts/442186833100004

		https://www.linkedin.com/feed/update/urn:li:activity:6593820531001307136
5/11/2019	F2F meeting at Sfax university	https://blogs.uni-siegen.de/ms-cps/2019/11/05/f2f-meeting-at-sfax-university/ https://www.facebook.com/MSCPS.EU/posts/448896372429050 https://www.linkedin.com/feed/update/urn:li:activity:6597421077989851136
4/12/2019 Post date 9/12/2019	Open Day 2019 (JPO'2019) event – Concerning MS@CPS	https://blogs.uni-siegen.de/ms-cps/2019/12/09/open-day-2019-jpo2019-event-concerning-mscps/ https://www.facebook.com/MSCPS.EU/posts/472655790053108 https://www.linkedin.com/feed/update/urn:li:activity:6609617498981703680
18/12/2019	Press article in "La Gazette du Sud" magazine	https://blogs.uni-siegen.de/ms-cps/2019/12/18/press-article-in-la-gazette-du-sud-magazine-about-mscps-project-meeting-at-isims/ https://www.facebook.com/MSCPS.EU/posts/479691862682834 https://www.linkedin.com/feed/update/urn:li:activity:6613072212557729792
23/12/2019	Presenting MS@CPS at Erasmus+ Info Day 2019 – Gaza City, Palestine	https://blogs.uni-siegen.de/ms-cps/2019/12/23/presenting-mscps-at-erasmus-info-day-2019-gaza-city-palestine/ https://www.facebook.com/MSCPS.EU/posts/483586078960079 https://www.linkedin.com/feed/update/urn:li:activity:6614907892577505280/
02.01.2020	Presenting MS@CPS at	

	AT-SGIRES project – Tafila City, Jordan	https://blogs.uni-siegen.de/ms-cps/2020/01/02/presenting-mscps-at-at-sgires-project-tafila-city-jordan/ https://www.facebook.com/MSCPS.EU/posts/491370991514921 https://www.linkedin.com/feed/update/urn:li:activity:6618456422986448897
06.01.2020	internal workshop at MS@CPS at University of Sfax	https://blogs.uni-siegen.de/ms-cps/2020/01/06/internal-workshop-at-mscps-at-university-of-sfax/ https://www.facebook.com/MSCPS.EU/posts/494034031248617 https://www.linkedin.com/feed/update/urn:li:activity:6619729892923846656
16.01.2020	MS@CPS project Newsletter	https://blogs.uni-siegen.de/ms-cps/2020/01/16/mscps-project-newsletter/ https://www.facebook.com/MSCPS.EU/posts/501890293796324 https://www.linkedin.com/feed/update/urn:li:activity:6623495761118273536
17.01.2020	Monitoring visit of Erasmus+ office on Tunisia (USF)	https://blogs.uni-siegen.de/ms-cps/2020/01/17/monitoring-visit-of-erasmus-office-of-tunisia-usf/ https://www.facebook.com/MSCPS.EU/posts/502934367025250 https://www.linkedin.com/feed/update/urn:li:activity:6624016961418469376
22.01.2020	University of Sfax participated in a live radio interview program at "radio Sfax"	https://blogs.uni-siegen.de/ms-cps/2020/01/22/mscps-project-at-radio-sfax/ https://www.facebook.com/MSCPS.EU/posts/505566580095362

		https://www.linkedin.com/feed/update/urn:li:activity:6625741153914499072
27.02.2020	Presenting MS@CPS Briefing Day at PTC	https://blogs.uni-siegen.de/ms-cps/2020/02/27/567/ https://www.facebook.com/MSCPS.EU/posts/526005548051465 https://www.linkedin.com/feed/update/urn:li:activity:6638808793713123328
17/03/2020	Online meeting MS@CPS consortium	https://blogs.uni-siegen.de/ms-cps/2020/03/18/onlin-meeting/ https://www.facebook.com/MSCPS.EU/posts/536948053623881 https://www.linkedin.com/feed/update/urn:li:activity:6645786241025617920
26/08/2020	MS@CPS open info day	https://blogs.uni-siegen.de/ms-cps/2020/08/27/mscps-open-info-day-2/ https://www.facebook.com/MSCPS.EU/posts/634013250584027 https://www.linkedin.com/feed/update/urn:li:activity:6704641807520714752

2.3.4 Press Releases

The coordinator produces the project press releases in English and partners translate and adjust them to the local contexts for sharing it with appropriate media outlets (trade press, web portals). News of the project are disseminated regularly over the website of each partner. They are issued to ensure that industry, academic staff in the CPS field, policy-making authorities, and the wider community are aware of the project, its objectives and, later in the project, its outcomes. The strategy is intended to ensure that there is publicity and media coverage at local, regional and European levels. PTC and the MS@CPS partners have several existing channels and networks for disseminating news, which will ensure a broad awareness of the project across the spectrum of relevant stakeholders. In the following, the links to the project news and activities from the partners are listed.

General pages

https://www.researchgate.net/project/International-Master-of-Science-on-Cyber-Physical-Systems-MSCPS

http://researchprofiles.herts.ac.uk/portal/en/projects/international-master-of-science-on-cyberphysical-systems-mscps(5e432f3b-d490-4847-97f5-d600aef7bfc5).html

https://dspace.alquds.edu/handle/20.500.12213/4654

2.3.5 Scientific (Peer Reviewed) Publications

The project partners prepared a paper that describes the primary results of the project and it was submitted to an IEEE international conference. The paper was accepted and published in the proceedings of the 2019 international conference on promising electronic technologies ICPET 2019. The proceedings of the conference are published in IEEE Xplore digital library.

https://ieeexplore.ieee.org/document/8925328

Published in: 2019 International Conference on Promising Electronic Technologies (ICPET)

Date of Conference: 23-24 Oct. 2019

Date Added to IEEE Xplore: 09 December 2019

ISBN Information:

Electronic ISBN: 978-1-7281-2337-0

Print on Demand (PoD) ISBN: 978-1-7281-2338-7

DOI: 10.1109/ICPET.2019.00009

Publisher: IEEE

Conference Location: Gaza City, Palestine

2.4 Open info day as online event

2.4.1 Open info day

In this event, project partners are committed to offer open house days regarding the new curriculum in MS@CPS and its outcomes. Staff from other universities and industrial stakeholders were also invited. The goals are to disseminate and discuss the curriculum, contents, and teaching methodologies. Due to the current pandemic crisis COVID-19, which banned group gatherings in many countries and forced social distancing, the consortium decided to hold this event as an online event and it was held over Zoom online webinar program.

2.4.2 Open info day schedule

General program and details of each session

MS@CPS Open Info Day Agenda

Date: August 26th, 2020 **Time:** 09:00 AM (CET) **Location:** Zoom Meeting

Session 1: CPS in Academia **[9:00-10:00]**

- Program and session Opening [9:00-9:05]
- Welcome note and introduction [9:05-9:10]
- Guest talk of the Director of national Erasmus office in Palestine Dr. Nedal Jayousi
- Keynote Speaker I, Prof. Roman Obermaisser, University of Siegen – Germany (Talk Title: Dependable Embedded Real-Time Systems based on Time-Triggered Control)

[9:10-9:35]

- Keynote Speaker II, Prof. Raimund Kirner, University of Hertfordshire – UK (Talk Title Using SIL Arithmetic to Design Safe and Secure Cyber-physical Systems) [9:35-10:00]

Session 2: CPS in Industry [10:10-10:55]

- Welcome note and introduction [10:10-10:15]
- Speaker I, Dr. Iyad AbuHadrous, CEO of Aura company – (Talk Title: Turning an IoT idea into a proof of concept) [10:15-10:35]
- Speaker II, Dr. Marwan Radi, Global Operations Manager, Automation & Assembly at TE Connectivity – Germany (Talk Title: Industrial applications of robotics and automation) [10:35-10:55]

Session 3: About CPS Master and Discussions [11:20-12:50]

- Welcome note and introduction
- Timeline of admission, admission criteria, features for study and teaching staff info.
- Study plan and available scholarship and student support chances.
- Q&A

Guest Speaker

Director of national Erasmus office in Palestine Dr. Nedal Jayousi as a guest speaker in the open info day of the MS@CPS project.

Keynote Speaker I, Prof. Roman Obermaisser

Talk Title: Dependable Embedded Real-Time Systems based on Time-Triggered Control

Abstract:

Many safety-critical application subsystems demand hard real-time requirements, where the achievement of stability and safety depends on the completion of activities (e.g., reading of sensor values, performing computations, message transmission) in the defined time. In such hard-real-time systems, missed deadlines represent system failures with the potential of consequences as serious as in the case of providing incorrect results. The static resource allocation in time-triggered systems offers significant benefits for the safety arguments of dependable systems. However, adaptation is a key factor for energy efficiency and fault recovery in Cyber-Physical System (CPS). This presentation describes research in the area of adaptive time-triggered systems for CPS in order to support adaptation using multi-schedule graphs while preserving the key properties of time-triggered systems including implicit synchronization, temporal predictability and avoidance of resource conflicts. In addition, we highlight upcoming challenges such as the integration with knowledge-based systems and artificial intelligence. The presentation also discusses implications for required competences and teaching in the area of CPS.

Short Bio:

Prof. Dr. Roman Obermaisser is a full professor and chair of USI-ES. He has studied computer sciences at Vienna University of Technology, and received the Master's degree in 2001. In February 2004, Roman Obermaisser has finished his doctoral studies in Computer Science with Prof. Hermann Kopetz at Vienna University of Technology as research advisor. In July 2009, Roman Obermaisser has received the habilitation ("Venia docendi") certificate for Technical Computer Science. His research work focuses on system architectures for distributed embedded real-time systems. He wrote a book on an integrated time-triggered architecture published by Springer-Verlag, USA. He is the author of several

journal papers and conference publications. He has also participated in numerous EU research projects (e.g. DECOS, NextTTA) and was the coordinator of the European research projects GENESYS and ACROSS.

Keynote Speaker II: Prof. Raimund Kirner
Talk Title: Using SIL Arithmetic to Design Safe and Secure Cyber-physical Systems

Abstract:

In a safety-critical cyber-physical system each service has a specific level of safety criticality. Safety standards use classifications like Safety Integrity Levels (SIL), to describe the design requirements for the individual services of a system. Techniques like redundancy can be used to achieve a higher overall dependability than the used individual components provide. Using the notion of SIL, this can be called SIL arithmetic. Using the concept of SIL arithmetic we point out how different safety standards provide hints for their support of using SIL arithmetic. We highlight the principal benefits of SIL arithmetic and provide simple examples. But the use of SIL arithmetic in a concrete system design can also have its pitfalls. We specifically discuss these issues in the context of scheduling techniques for mixed-criticality systems, where resource shortages are to be handled by the task scheduler.

Short Bio:

Dr. Raimund Kirner is a Reader in Cyberphysical Systems at the University of Hertfordshire. He has published more than 100 refereed journal and conference papers and received two patents. He received his PhD in 2003 from the TU Vienna and his Habilitation in 2010. His research focus is on embedded computing, parallel computing, andsystem reliability. He currently works on adequate hardware and software architectures to bridge the gap between the many-core computing and embedded computing. He also published excessively on worst-case execution time analysis and served as PC chair of WDES'06, WCET'08, and SEUS'13. He was the local principal investigator of the Artemis-JU project CRAFTERS and was local coinvestigator of the FP7 project ADVANCE. Further, he has been the principal investigator of three research projects funded by the Austrian Science Foundation (COSTA, FORTAS, SECCO). He is a senior member of IEEE, a member of the ACM and the IFIP Working Group 10.4 (Embedded Systems).

Speaker I: Dr: Iyad Abuhadrous

Talk Title: Turning an IoT idea into a Proof of Concept

Abstract:

ELM IoT team is receiving abstract ideas obtained from clients, the role of the team is to maximize the chances of successful implementation of the client idea and reducing chances of design or development failure, to avoid losing precious time or resources, it is vital to test a product's functionality at an early stage. Therefore, the IoT team offers an effective way to get a quick Proof of Concept. We change the abstract idea into a specific design/prototype to be applicable for the client to approve, then start developing the product at its final design. This require a spiral approach of development (continuous) from various teams; Analysts, designers, developers and QA team.

Short Bio:

Associate professor at the Engineering Professions Department, Palestine Technical College CEO of Aura Company and IoT team Leader. More than 20 years of experience in University Academics, TVET, R&D Holding Ph.D in Robotics. Moreover, He is an author for the Robotics Unit at “Technology” book for 11th and 12th grade, Ministry of Education.

Speaker II : Dr. Marwan Radi

Talk Title: Industrial application of robotics and automation

Abstract: The presentation gives details about the use of robotics in the industry.

Short Bio:

Strong engineering professional with PhD degree in mechanical/mechatronics engineering focused on Industrial Engineering, Automation, LEAN Principles and Footprint Management. A highly motivated and experienced Staff Engineer with superior consulting and influencing skills in advocating for and advancing automation and manufacturing solutions. A business savvy with a demonstrated history of working in both the white goods and the automotive industries. A mind for wide-angle strategic thinking with demonstrated ability to accurately assess key business metrics and situations. Skilled in synthesizing lots of information into a holistic vision and roadmap. Excellent analytical skills and an eye for details with significantly strong business acumen. Drawn to forward-thinking ideas with proven ability to connect the dots. Good at spotting the latest trends in engineering and manufacturing realm with an outstanding IT knowledge & system architecture. Demonstrated strong project management skills as a leader of a motivated team. Proven relationship builder with unsurpassed interpersonal skills.

2.4.3 Open info day designs and promotional material

Designed materials for promoting the event are listed in Figure 11 and Figure 12. More poster designs for speakers details are shown Figure 13 and Figure 14.

Figure 11 Design of the open info day program

Figure 12 Design of open info day event poster

Figure 13 Design of open info day keynote speakers poster

Figure 14 Design of open info day guest speaker poster

2.4.4 Open info day event summary

The event was moderated by Palestine Technical College - Deir El-Balah with the presence of all partners. Dr. Ezzaldeen Edwan welcomed all keynote speakers and attendees. The NEO Director, Dr. Nedal Jayousi, the guest speaker, launched the event and explained that the NEO office supports the Palestinian partners of CBHE projects in Palestine and he praised the excellent share they won this year. Dr. Jayousi encouraged the project partners to sustain their work on the project during COVID-19 pandemic, as well as to work on getting accreditation as it lies within the priorities of the Palestinian Higher Education Strategic Plan. He encouraged the consortium to proceed with equipment purchase. The event included three consecutive sessions: the first session is “CPS in Academia” and it started with a talk given by Prof. Dr. Roman Obermaisser about Dependable Embedded Real-Time Systems based on Time-Triggered Control. The second keynote speaker Prof. Raimund Kirner talked about

Using SIL Arithmetic to Design Safe and Secure Cyber-physical Systems. The second session “CPS in Industry”, started by Dr. Iyad AbuHadrous about turning an IoT idea into a proof of concept. Dr. Marwan Radi talked about the Industrial application of robotics and automation. In the last session, all consortium partners presented details about the master's program at partner universities including a timeline of admission, admission criteria, features for study, teaching staff, study plan, and available scholarship and student support chances. During the event, the attendees raised a set of questions that were answered by the presenters.