ASSIST-IoT H2020 Project

Newsletter Issue 3

May-July 2021

www.assist-iot.eu

European Commission | Horizon 2020 European Union funding for Research & Innovation

ISSUE HIGHLIGHTS

The third issue of ASSIST-IoT newsletter presents the project activities during May-July 2021 period. This specific issue focuses on the communication and the dissemination activities of the project, the project deliverables (recent and upcoming) and the interaction with the NGIoT association

ASSIST-IoT trimester activities in numbers:

➢ 4 Technical Reports

➢ 1 Journal Paper

➢ 2 Calls for Papers

➢ 10 Presentations

➢ 3 NGIoT Activities

➢ 2 Collaborations

➢ 3 Submitted Deliverables

➢ 3 Upcoming Deliverables

➢ Administrative Plenary Meeting

Communication and Dissemination Activities

Technical Reports

ASSIST-IoT Technical Report #2, entitled "Sunday-FL – Developing Open Source Platform for Federated Learning" , by: ASIST-IoT partners Piotr Niedziela, Anastasiya Danilenka, Dominik Kolasa, Maria Ganzha, Marcin Paprzycki, Kumar Nalinaksh has been published and is available at: https://assist-iot.eu/wp-content/uploads/2021/05/ASSIST-IoT-Technical-Report-2-Sunday-FL%E2%80%93Developing-Open-Source-Platform-for-Federated-Learning.pdf

ASSIST-IoT Technical Report #3, entitled "Tactile Internet in Internet of Things Ecosystems", by ASIST-IoT partners: Ignacio Lacalle, Cesar Lopez, Rafa Vaño, Carlos E. Palau, Manuel Esteve, Maria Ganzha, Marcin Paprzycki, Pawel Szmeja has been published and is available at: https://assist-iot.eu/wp-content/uploads/2021/05/ASSIST-IoT-Technical-Report-3-Tactile-Internet-in-Internet-of-Things-Ecosystems.pdf

ASSIST-IoT Technical Report #4 entitled: "Implementing autonomic Internet of Things ecosystems – practical considerations" by ASSIST-IoT partners: Kumar Nalinaksh, Piotr Lewandowski, Maria Ganzha, Marcin Paprzycki, Wiesław Pawłowski, and Katarzyna Wasielewska-Michniewska has been published and is available: https://assist-iot.eu/wp-content/uploads/2021/06/ASSIST-IoT-Technical-Report-4-Implementing-autonomic-I%CE%BF%CE%A4-ecosystems-%E2%80%93-practical-considerations.pdf

ASSIST-IoT Technical Report #5 entitled: "DevSecOps Methodology for NG-IoT Ecosystem Development Lifecycle – ASSIST-IoT perspective" by ASSIST-IoT partners: Óscar López, Jordi Blasi, Mikel Uriarte, Ignacio Lacalle, Gonzalo Galiana, Carlos E. Palau, Eduardo Garro, Maria Ganzha, Marcin Paprzycki, Piotr Lewandowski, Katarzyna Wasielewska, Konstantinos Votis, Georgios Stavropoulos, Iordanis Papoutsoglou, has been published and is available: https://assist-iot.eu/wp-content/uploads/2021/07/ASSIST-IoT-Technical-Report-5-DevSecOps-Methodology-for-NG-IoT-Ecosystem-Development-Lifecycle-%E2%80%93-ASSIST-IoT-perspective.pdf

Technical Report Series
Issue #2

Technical Report Series
Issue #3

Technical Report Series
Issue #4

Technical Report Series
Issue #5

Journal Paper

ASSIST-IoT partners, Patryk Zradziński, Jolanta Karpowicz, Krzysztof Gryz, Grzegorz Owczarek and Victoria Ramos (CIOP-PIB) have published a journal paper on MDPI Sensors entitled: "Modelling and Evaluation of the Absorption of the 866 MHz Electromagnetic Field in Humans Exposed near to Fixed I-RFID Readers Used in Medical RTLS or to Monitor PPE". You may access the paper here: https://www.mdpi.com/1424-8220/21/12/4251

Calls For Papers

ASSIST-IoT and InGenious projects co-organise the 1st edition of Human Centric and Tactile IoT workshop, jointly held with IEEE GLOBECOM 2021, Madrid, Spain, December 7-11, 2021. Call for papers was open until 31 July 2021.
More information available at: https://assist-iot.eu/2021/04/23/ieee-globecom-workshop-call-for-papers/
You may also access the workshop website here: https://globecom2021.ieee-globecom.org/workshop/ws-12-workshop-human-centric-and-tactile-iot

A special issue is organised by ASSIST-IoT project in MDPI Journal of Sensor and Actuator Networks (JSAN) entitled "Recent Advances and Tactile Internet of Things" (ISSN 2224-2708). Call for papers deadline: 28 February 2022.
You may learn more information about this issue and CfP at: https://www.mdpi.com/journal/jsan/special_issues/TIoT?fbclid=IwAR0SOX3yP0wzKjQTy_Ba5dowRY6Ykn3cHJZteug4NvAbdCKGm06zdedo1F8

Presentations

ASSIST-IoT partner, Marcin Paprzycki (SRIPAS), participated and also presented "Introduction to Federated Learning" in the following events:

- ➢ EASTON100 - Fifth International Conference on Computing Sciences on 30 April 2021 - 1st May 2021
- ➢ 6th International Conference Information, Communication & Computing Technology (ICICCT-2021). Link: https://www.jimsindia.org/icicct2021/
- ➢ International Conference on Paradigms of Communication, Computing and Data Sciences (PCCDS 2021). Link: https://www.pccds21.scrs.in
- ➢ 2021 IEEE International Conference - Emerging Trends in Industry 4.0 - IEEE (ETI 4.O) conference
- ➢ BDACS 2021 International Conference on Big Data Analysis and Computer Science, 25-27 June 2021 China. Link: http://www.bdacs.org/speaker

On Thursday 27 May, 2021, ASSIST-IoT innovation manager Ángel Martínez Cavero presented ASSIST-IoT Project in the session "Architectures and building blocks for ports and maritime logistics data platforms" of the "Unleashing the potential of ports and maritime logistics via data-driven solutions: Opportunities and Challenges" workshop (organized by DataPorts) at the Data Week 2021. You may watch the presentation here: https://www.big-data-value.eu/dw21-registration/https://www.youtube.com/watch?v=mx4GchU9OsM
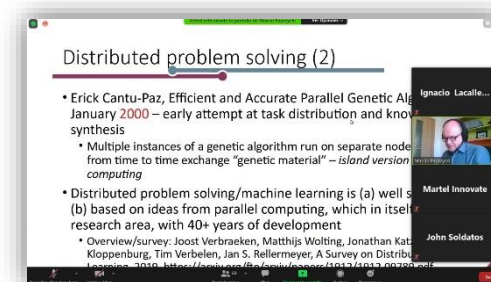
ASSIST-IoT partner, Oscar López (S21sec) took part and presented "Applying machine learning towards active cybersecurity" in the NextSecure, the annual cybersecurity event of S21sec, which celebrated its XXIII edition focused on Offensive Security on 9 June 2021. NextSecure, the annual cybersecurity event of S21sec, celebrated its XXIII edition focused on Offensive Security. You may learn more and watch the event here: https://www.s21sec.com/nextsecure/
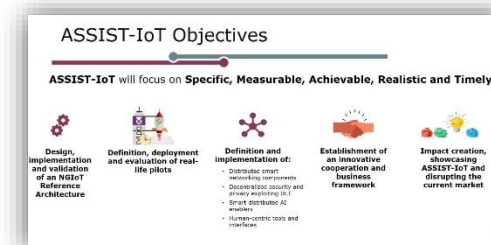
Carlos Guardiola from Universitat Politècnica de València (UPV) took part and stated "The connected vehicle paradigm allows a complete reshaping of the vehicle control and diagnostics, with impact at fleet, vehicle and component level" in the Next Generation Internet of Things - NGIoT Thematic Workshop: Automotive Industries and Mobility that took place virtually on 15 June 2021. You may learn more about the event here: https://www.ngiot.eu/event/ngiot-thematic-workshop-automotive-industries-and-mobility/?fbclid=IwAR3hoCw8yhgTgPs-63KjZ5A19yCn7qpZlp8mRrYgLDo-PGGgSChs3LN4VLg

Marcin Paprzycki from SRIPAS (ASSIST-IoT partner) presented "Introduction to Federated Learning" to the EU-IoT Training Workshops Series: AIoT and Edge Machine Learning on 21 May 2021. You may access more details here: https://www.ngiot.eu/event/eu-iot-training-workshops-series-aiot-and-edge-machine-learning/?instance_id=144

ASSIST-IoT partner, Piotr Dymarski (Mostostal) took place on the "Enabling the Tactile Internet with IoT" Next Generation Internet of Things - NGIoT workshop on 8 July 2021. He also presented the "Use of Tactile Internet and Augmented Reality in the Construction Industry". You may learn more about the event here: https://www.ngiot.eu/event/enabling-the-tactile-internet-with-iot/?instance_id=168

ASSIST-IoT and NGIoT Activities

NGIoT Newsletter Issue #7 is already available sharing the latest news about European funded projects around IoT. You may find it here: https://mailchi.mp/ea5b89342843/ngiot-newsletter-7

The first issue of the NGIoT newsflash (July 2021) is now available. You may access it and learn all about events and activities related to IoT around Europe. You may find it here: https://mailchi.mp/54a4cee5ee5d/ngiot-newsflash1

ASSIST-IoT Technical reports #2, #3 are now available in NGIoT news section. You may access them and learn about Open Source Platform for Federated Learning and Tactile Internet. You may find them here: https://www.ngiot.eu/open-source-platform-for-federated-learning-and-tactile-internet-new-reports-from-assist-iot/?fbclid=IwAR2OPl3b-lZXRkwsb8gtiG0iQ95AV_tAqH85fe51jmuV9vt8vjKtPqVFSzI

ASSIST-IoT Collaborations

ASSIST-IoT project is now member of ALICE ETP alliance. The European Technology Platform ALICE is set-up to develop a comprehensive strategy for research, innovation and market deployment of logistics and supply chain management innovation in Europe. You may learn more about the alliance all involved projects here: http://www.etp-logistics.eu/projects/

ASSIST-IoT project proudly announces the collaboration with DataPorts project. DataPorts will provide a Data Platform in which transportation and logistics companies around a seaport will be able to manage data like any other company asset, in order to create the basis to offer cognitive services. You may learn all about related projects here: https://dataports-project.eu/new-collaborations-with-other-projects/?fbclid=IwAR3hoCw8yhgTgPs-63KjZ5A19yCn7qpZlp8mRrYgLDo-PGGgSChs3LN4VLg

ASSIST-IoT

Submitted Deliverables

D2.5 Risk Management v1 [M9] – This initial version includes the risk policy, forecasted and detected risks and the mitigation measures, including ethical and legal risks.

D4.1 Initial Core Enablers Specification [M9] – Initial specification of components of horizontal planes.

D5.1 Software Structure And Preliminary Design [M9] – Initial software components, relationships and building blocks in relation to the architecture.

Upcoming Deliverables

D3.4 Legal and Regulatory Constraints Analysis and Specification [M12] – Details of legal and regulatory constraints in different countries that have to be considered when designing ASSIST-IoT solutions.

D5.2 Traversal Enablers Development Preliminary Version [M12] – Preliminary software version

D7.1 Deployment Plan and Operational Framework [M12] – Will document plan of activities for deploying ASSIST-IoT in pilot sites, including technical, organizational and operational aspects. Results od small-scale demonstrations will also be reported, as well as integration of third parties.
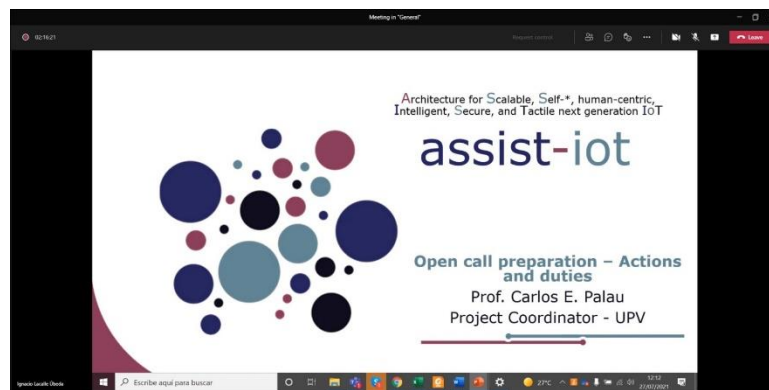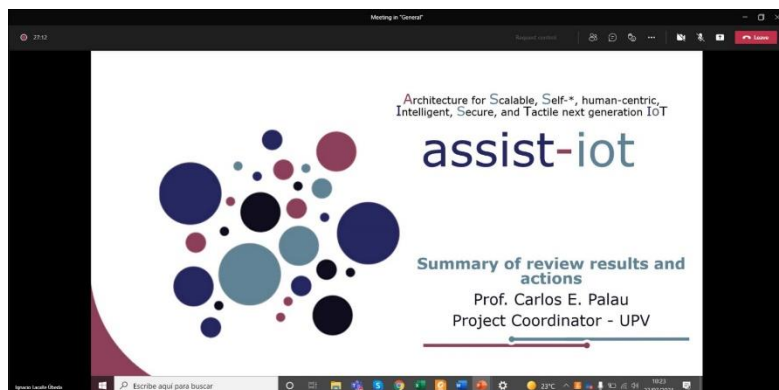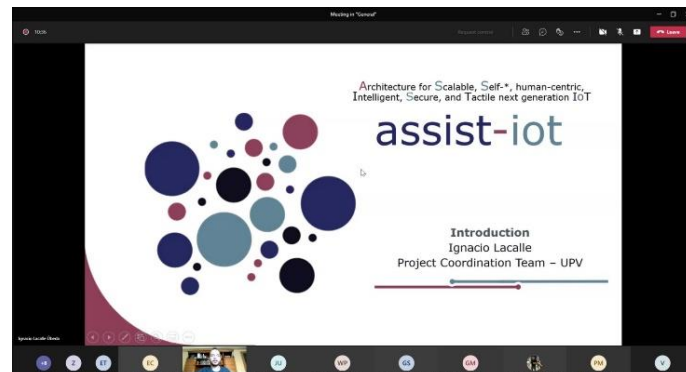
ASSIST-IoT deliverables will be soon available for downloading

at ASSIST-IoT website: https://assist-iot.eu/deliverables/

ASSIST-IoT Administrative Plenary meeting

ASSIST-IoT organised an online Administrative Plenary meeting on Tuesday 27 of July 2021 as a pre-summer co-ordination and planning set of actions among all partners. The main discussions were focused on the technical review results, overall project's administrative information, first Open Call details and planning, latest Advisory Board meeting recommendations, risk management details and next months overall project actions and plans.

Communication Channels

www.assist-iot.eu

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Call: H2020-ICT-2020-1
Topic: ICT-56-2020
Type of Action: RIA
Duration: 36 Months
Start Date: 1 November 2020