



A-WEAR PROJECT

A network for dynamic WEearable Applications with pRivacy constraints

Project no. 813278

H2020-MSCA-ITN-2018 – Marie Skłodowska-Curie Innovative Training Networks

D6.1 Plan for outreach, dissemination and exploitation

Due date of deliverable: 31 December 2019

Actual submission date: 22 November 2019

Last modification date: 21 November 2019

Start date of project: 01 January 2019

Duration: 48 months

Organization name of lead beneficiary of this deliverable:

Tampere University

Status (Draft/Proposal/Accepted/Submitted):

Draft

Working package:

WP6:Outreach

Dissemination Level		
PU	Public	x
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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Versioning and contribution history

Version	Date	Author	Notes
1.0	01.07.2019	Aleksandr Ometov	Initial version
1.1	14.11.2019	Elena Simona Lohan	Content additions
1.2	18.11.2019	Elena Simona Lohan	Revisions based on feedback
1.3	21.11.2019	Elena Simona Lohan	Additional revisions
1.4	21.11.2019	Aleksandr Ometov	Final formatting checks

Disclaimer

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.





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1. Executive Summary

This document comprises the deliverable D6.1 Plan for outreach, dissemination and exploitation in WP6-Outreach working package within A-WEAR project. This report contains A-WEAR plan for outreach, dissemination and exploitation of A-WEAR results.

2. Main training and research objectives of A-WEAR

The **training objectives (TO)** of A-WEAR are listed below:

TO1. Educate, supervise, and train 15 young ambitious and creative researchers to face the future challenges in smart wearables and wireless computing and enhance their career prospects by training them in a multi-sector cross-country environment and teaching them to think globally.

TO2. Create and manage efficiently joint and double European PhD programmes and build a solid foundation for long-term structured joint PhD education in Europe in the Internet of Wearable Things (IoWT) field with joint selection, supervision, and PhD Dissertation procedures for effective graduation process for PhD's degrees.

TO3. Create open-source training material for educational purpose and to publish and exploit research results and best practices in cooperation with the scientific community, industry, and general public

TO4. Have an interactive participation in social media such as webpage (including the videos of the researchers) and blogs, ResearchGate, Twitter, LinkedIn, YouTube, etc., in the form of literate, illustrative, and video presentations on the training and scientific outcome in order to disseminate efficiently our results; promote career prospects of the young researchers and expand the collaboration and the knowledge transfer also beyond our network

TO5. Foster multi-national collaboration through regular network training events and cross-country secondments as well as establish and maintain long-term academic and industrial partnerships, beyond the project's timeframe, in order to ensure the continuity of high-quality training and research of inter-sectorial nature.

The **Research objectives (RO)** of A-WEAR are listed below:

RO1. Create **novel** multi-layer knowledge for dynamic **wearable/IoT** networks

RO2. Identify **vulnerabilities** and offer innovative **solutions** in wearable **computing**

RO3. Design and develop **privacy-enhanced** and **location-aware** wearable technologies

RO4. Devise new Medium Access Control (**MAC**) algorithms for wearable/IoT architectures

RO5. Develop new open-source **software platforms** for wearables/IoT

The dissemination and outreach efforts will pertain both to the training and research aspects, as explained in the next sections.

3. External communications and dissemination strategy

The main target groups of the dissemination are the scientific community, the industrial stakeholders in wearables and IoT, the authorities and bodies responsible for development national and EU knowledge societies and digital economy, potential end users (including all population in contact with a wearable device, primary end users, public service personnel, etc.), high-school pupils (as the future users of wearables and current users of Internet), and persons developing multinational PhD and cross-sector trainings. Several activities will be considered in A-WEAR to ensure that there is a clear way of communication between the Early Stage Researchers (ESRs) and both the scientific and general public the target groups. The main goal of these activities will be to share results and more in general to create awareness of the importance of A-WEAR research themes to society and to raise awareness of the MSCA Actions, which are of paramount importance in these fast-changing times. The name of the network, A-





WEAR, has been selected on the basis of its multiple meanings. ‘WEAR’ carries the significance of ‘attire, clothing, use’ and it points out to the fact that our R&D focuses on wearables, while ‘A-WEAR’ also reads as ‘aware’ pointing out to the awareness we want to raise at societal level about the benefits, vulnerabilities, solutions, and architectures of future wearable networks. The main dissemination activities considered in A-WEAR are: the 10 dissemination and outreach activities listed in Table 1, conference and journal publications, and workshop participation.

Table 1 A-WEAR 10-step involvement in social media, besides the project webpage

Additional dissemination activities besides webpage, scientific publications, conference & workshop participation, and patents. All ESRs will be involved in all these activities. One or two ESRs/task will lead the efforts	Lead ESRs
Webropol survey active all through the EJD where users and stakeholders will be free to share their concerns and challenges regarding the technology (on one hand) and applications (on the other hand) of wearables	1,9
Facebook open group for A-WEAR public awareness	10
LinkedIn open group regarding discussions in the areas of A-WEAR with blog posts on LinkedIn, including fellow’s blog inputs on their experiences within the EJD (technical, social, experiences associated to mobility in other country, lesson learnt and best practices) with at least two posts/quarter	4,5
Adding A-WEAR open-source measurement data on open repositories , such as EU Zenodo , GitHub or Bitbucket – Fellows 3 and 13 will be in charge with finding out the distribution terms for the open repositories, informing the other fellows of those and regularly reminding each of them to distribute their open measurement data through those repositories	3,13
ESRs will maintain a youtube channel with video clips and fellows testimonies related to the main topic of the project, providing lessons and general-purpose talks, to spread the relevance of the activities carried out in the network	6,14
Twitter 140-character postings with links to the results and elevator pitches	8
ESRs will attempt contact with local mass-media to spread the activities of the consortium, the Marie Curie Actions, and of individual activities	2,12
Each ESR will post his/her publications (at least the abstract) on ResearchGate and participate in the ResearchGate discussions related to A-WEAR topics	7
ESRs from each beneficiary will organize a A-WEAR Open Day (one per beneficiary) where general audience will be invited to visit the host facilities and create attraction to the conducted research activities & doctoral studies	11
Each ESR will commit to act as Marie Curie Ambassadors and visit local schools and universities , as well as local councils , exposing the activities and results of the network. They will give at least 2 public presentations per ESR within the 36 months of contract. The specific election of places to give the talk will be left for decision of the ESRs with the support of the nominated supervisors.	15

3.1. Publications and conferences

Regarding the publications, the aim is to have at least 60 publications in total from the fellows during their work. The first 5 publications with ESRs as first authors have been published in URSI workshop of radio science (<https://events.tuni.fi/ursi2019/>) and are also available in open-access on Zenodo A-WEAR community (https://zenodo.org/communities/a_wear). One publication was accepted in open access journal Sensors (<https://www.mdpi.com/journal/sensors>).

Regarding the conferences, each ESR will be encouraged to participate in at least one large international conference per year, for which preparation of a paper to be included in the conference proceedings and a presentation will be required.

The following publication forums will be aimed at: various IEEE transactions and letters, Springer and Elsevier journals, Journal of Location Based Service, Journal of Urban Technology, Journal of Control Engineering and Applied Informatics, Sensors, and other relevant ISI-indexed journals. All publications will be reviewed internally before submission as ensure high quality. Research papers will be published as open-access by taking up self-archiving rights for journals and conferences that have them, or, if necessary, paying the open-access fees where self-archiving and or free open access is not possible. Also, online pre-publication in ArXiv will be recommended to fellows when applicable.

Conferences such as ICL-GNSS, IPIN, AGILE, UPIN, and conferences related to our R&D activities will be also aimed at. TAU hosted the first International Conference on Localization and GNSS (ICL-GNSS) and the TAU





team involved in A-WEAR is also in the steering committee of ICL-GNSS and will also host the 10th implementation of ICL-GNSS chain in Tampere in June 2020. ICL-GNSS conferences have been annually endorsed by IEEE and peer-reviewed papers at ICL-GNSS have appeared also in ieeexplore database.

UJI team organized the 17th AGILE International Conference on Geographic Information Science in 2014. One of its members is part of the IPIN Technical Programme Committee and is Chairing its International Standardization Committee. Since 2015, the UJI team is co-organizing the IPIN indoor localization competition. UJI team is co-organizing the IPIN conference in Barcelona.

BUT team is for more than 40 years main organizer of the international conference on Telecommunications and Signal Processing (TSP – IEEE Conference Record #43564) and will organize special workshops on the wearables related topics. For example, BUT team has organized during Fall 2019 the ICUMT congress and collocated workshop WeaRIoT (<https://icumt.info/2019/weariot-2019>).

UPB is organizing every odd year the IEEE International Conference on Control Systems and Computer Science (next one to be organized in 2021). Also UPB is organizing every even year the IEEE International Conference on Communications COMM, with the next edition in June 2020 and a dedicated section to IoT.

URC team in 2017 organized and hosted the international school on 5G and in 2018 it hosted the international IEEE Broadcast Technology Society Young Professional (IEEE BTS YP) workshop and the second edition of a workshop on 5G IoT at the European Wireless'18 Symposium. Similar initiatives are planned to be re-proposed also in the next years.

A-WEAR will continue thus to be promoted to the technical community, through the communication channels of all these conferences (e.g., website, mailing lists, and flyers during the conferences).

3.2. Press releases and website posts

The project has a dedicated webpage (see Section 5.1) to promote the training network, disseminate the results achieved and announce the events organized within this project. This website will be supported by a set of static content pages (institutional content) and will integrate a more dynamic area, eventually adding a blog and making easy to any participant in the network to collaboratively update and create new content. A-WEAR beneficiaries commit to make their results available in open-access as much as possible, through at least the followings:

1. Majority of deliverables in public access;
2. Publications via open-access option in IEEE and other publication forums;
3. Dissemination of results on open-forums such as Zenodo, ResearchGate and open library pages (e.g., TAU has own open-access portfolios: Trepo and TUTCRIS, UJI publish the papers also on their webpages, etc.);
4. Less sensitive and privacy-preserving measurement data to be provided in open access, also on Zenodo and on GitHub. Partners will be encouraged by the coordinator to store research data in national open access depositories, such as the Finnish IDA research data storage, and also in international open repositories. Owners of data can decide on the openness and usage policies for their own data. Openness will adhere to ethical principles and respect the judicial context.
5. Part of the developed software to be also published as open-access on Zenodo and GitHub.

4. Network-wide events

Table 2 shows the planned main network-wide training events: an orientation camp/Winter school at the beginning of the programme (M12), to be combined with the mid-term check, three more seasonal schools between M18 and M29, two workshops of 2.5 days each for team works and complementary skills in the last 2 years of A-WEAR, and 4 conference special sessions of half-days. The seasonal schools will have half day dedicated to Advisory & Management Board meetings and fellows' team work; they also will focus on offering technical and non-technical training, based on invited lecturers from industry, local senior researchers, etc.





In addition, we plan to include inspirational success stories by female researchers and entrepreneurs in a number of the seasonal schools, based on the experience of A-WEAR female supervisors and invited industrial female in order to provide role models for female ESRs. Complementary skill courses will include courses such as IPR, negotiation, selling, doctoral studies practices and orientation, scientific paper writing, presentation skills, technology management, ethical training, business practices, marketing, procedures for patenting as well as creating university spin-offs and start-up companies, etc. (some already scheduled in the network events of Table 2, some other to be offered locally by one or several units). All events are scheduled during the period when all fellows are in the network, meaning between M9 (scheduled month of last hiring) and M42 (month of possible contract ending of first fellow to be hired). With 11 scheduled networking events within this interval we aim at ensuring a maximum level of cooperation and networking within A-WEAR units. In the conference special sessions to be organized within A-WEAR we will particularly invite the teams of other networks which expressed interest in our research topics and with whom we have detected potential complementarities. This will benefit our training program also in terms of lessons learnt from other MSCA fellows and in order to exchange technical and complementary skills knowledge. The network-wide events in addition will facilitate social activities, site-visits at the premises of A-WEAR partners, face-to-face meetings of ESRs with their supervisory team and knowledge exchange amongst the ESRs.

Table 2 Main Network-Wide Training Events, Conferences, and Contribution of Beneficiaries

Event	Main Training Events & Conferences	ECTS	Training outcomes	Lead Unit	Month
E1	2-5 December 2019: orientation camp/winter school on “Localization and communication enablers for wearables”, including half-day fellow presentations and team building activities collocated with midterm check. It will include introductions, logistics and team building for the A-WEAR team, technical training on seamless localization and low-energy communications in IoWT, and complementary skills on ethics in research, strategy&business planning and MyData. Planned lecturers from A-WEAR Beneficiaries and industry: Lohan (TAU) Nurmi (TAU), Kucheryavy (TAU), Andreev (TAU), Ometov (TAU), Ahtensuu (TAU), Hosek (BUT), Niculescu (UPB), Cramariuc (CITST), Torsner (ERI), Frost (DLI). This event is to be collocated with the mid-term check and will be held in Tampere, Finland.	3 - 4	Overview of the training and research; IoWT communication and positioning challenges; harmonization of training methodologies; orientation to PhD studies and ethical behaviour	TAU	M12
E2	Half-day A-WEAR workshop at AGILE 2020 conference on wearables in smart cities	1	Presentation, networking and communication skills	UJI	M17
E3	4-day summer school on “Machine Learning, Spatial analysis, and cybersecurity in wearables”, including half-day fellow presentations and team building. Topics: machine learning, AI, cryptography and cybersecurity, web and context-aware systems, public safety; complementary skills on multi-cultural business communication and leadership. Planned lecturers from UJI and industry: Huerta (UJI), Gould (UJI), Torres (UJI), Juan (S2G), Carque (CPD), etc.	4	Machine learning and AI techniques; cybersecurity and cryptography methods; public safety; business and leadership	UJI	M18





E4	4 days, Winter school on “Consumer and healthcare applications of wearables”, including half-day fellow presentations and team building activities. Topics: Ambient Assisted Living (AAL) challenges, eHealth platforms, mesh sensor networks, localization via miniaturized devices; complementary success stories of female leaders and from research idea to start-ups. Planned lecturers from UPB and industry: Marghescu (UPB), Niculescu (UPB), Popescu (UPB), Cramariuc (CIT), Suci (BEIA), Pavel (NXP), etc.	3	Wearables usage in AAL and eHealth; platforms requirements for consumer and eHealth applications; how to build a successful start-up	UPB	M22 ¹
E5	Half-day A-WEAR workshop at ICUMT 2020 conference on green communication and networking with wearables	1	Presentation, networking and communication skills		M22
E6	Joint virtual research seminar via Moodle2 and Echo tools covering edge and fog computing, physical layer parameter optimization and MAC protocols in wearables, and wearable applications and services. Lectures: all academic scientists-in-charge of A-WEAR.	3	7-layer OSI model of wearables: from physical layer to application layer – challenges and solutions	TAU	M24
E7	4-day summer school on “Critical Industrial Applications in 5G-Internet of Things (IoT) Ecosystem”, including half-day fellow presentations and team building activities. Technical topics: privacy, precise indoor positioning for industrial applications, low-latency communication architectures. Complementary skills: legal aspects of security and privacy protection and from idea to commercial product. Planned lecturers from academy and industry: Hosek (BUT), Misurec (BUT), Simek (SWO), Sedlacek (Greycortex), Polcak (Masaryk university), Uhlir (South-Moravian Innovation Centre), Pus (NET), etc.	3	5G and mmWave architectures; privacy laws and digital privacy solutions; IPR protection.	BUT	M29
E8	Half-day A-WEAR workshop at ICL-GNSS 2021 conference on Location Based Services through wearables	1	Presentation, networking and communication skills	TAU	M30
E9	Half-day A-WEAR workshop 2 at IPIN 2021 conference on indoor location privacy of wearables	1	Presentation, networking and communication skills	UJI	M33
E10	2.5-day workshop, including one-day fellow presentations and team building activities and complementary skills training on languages, communications, business, fundraising, entrepreneurship skills & success stories. Planned lecturers: Iera (URC), Molinaro (URC), Lener (T6E), Himanen (DLI), etc.	1	Fundraising and entrepreneurship skills for a successful career	URC	M35
E11	2.5-day workshop, including one-day fellow presentations and team building activities and complementary skills training on multi-cultural environments, R&D project management & legal aspects and IPR. Planned lecturers: Langwaldt (TAU), Kiviniemi (TAU), Bhuiyan (FGI), Burian (uBlox), etc.	1	Project management cycle	TAU	M41
Total # of ECTS from A-WEAR network-wide events		21 - 22			

5. Implemented main dissemination actions so far

5.1. Project webpage

The project webpage can be found at www.a-wear.eu.

¹ Changed from M21 from GA according to the best current estimate.





5.2. Social media channels

The following A-WEAR social media channels have been created

- **Facebook** <https://www.facebook.com/groups/1012445038942311/>
- **LinkedIn** <https://www.linkedin.com/groups/8723478/>
- **ResearchGate** <https://www.researchgate.net/project/A-WEAR>
- **Twitter** https://twitter.com/A_WEAR_Project
- **Instagram** <https://www.instagram.com/awear.eu.project/>
- **Reddit** <https://www.reddit.com/user/A-WEAR-Project>
- **Telegram** <https://t.me/joinchat/AYccZksYt5HQyZsH0azekw>

The most active one is the Twitter channel @A_WEAR_Project. Most of our ESRs have also created their own Twitter channels. A-WEAR Twitter channel has currently 284 followers.

Example of Twitter impressions from @A_WEAR_Project channel as of 14.11.2019 are shown in Figure 1.

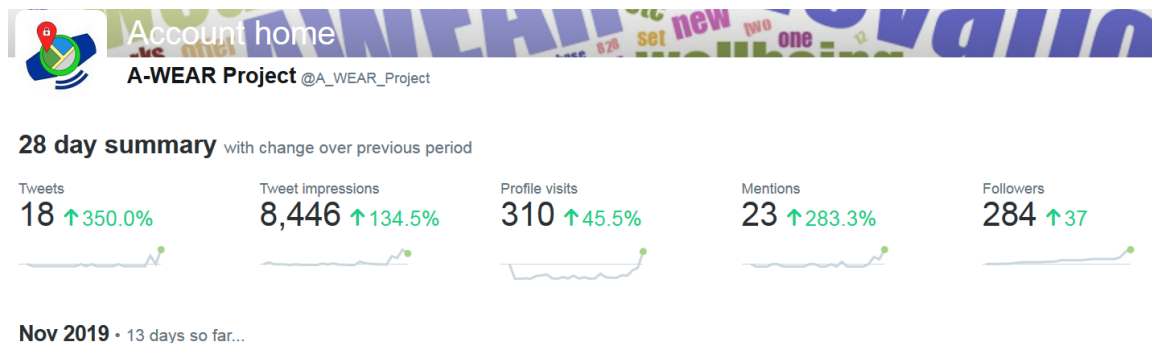


Figure 1 A-WEAR Twitter impressions for the last 28 days on 14.11.2019

A few more snapshots of impressions and stats from past months are shown in Table 3.

Table 3 A-WEAR Twitter analytics snapshots

Oct 2019	Sep 2019	May 2019
<small>OCT 2019 SUMMARY</small>	<small>SEP 2019 SUMMARY</small>	<small>MAY 2019 SUMMARY</small>
Tweets 7	Tweets 6	Tweets 9
Tweet impressions 4,736	Tweet impressions 7,300	Tweet impressions 8,684
Profile visits 303	Profile visits 94	Profile visits 117
Mentions 10	Mentions 4	Mentions 3
New followers 64	New followers* 5	New followers 4
	<small>*Data for this month may not be exact due to a service outage.</small>	

5.3. A-WEAR open-access data repositories

A Zenodo A-WEAR community was created at https://zenodo.org/communities/a_wear/ and it currently includes five research papers co-authored by A-WEAR ESRs.

5.4. A-WEAR dissemination efforts during various conferences & workshops

The following dissemination actions have been implemented during 2019 conferences and workshops



A-WEAR is funded by the European Union's Horizon2020 research and innovation programme under the Marie Skłodowska Curie grant agreement No. 813278. The content in this deliverable do not represent the opinion of the European Union, and the European Union is not responsible for any use that might be made of its content.



- **Disseminating information** about A-WEAR program during Aerodays conference, 27-30 May 2019, Bucharest, Romania, by Assoc. Prof. Simona Lohan, A-WEAR Scientist-in-Charge, TAU, and Cristiana Istrate, member of partner organization Beia consulting.
- **Disseminating information and flyers about A-WEAR and looking for candidates** at the EUCNC conference (<https://www.eucnc.eu>), with a dedicated exhibition booth (see Figure 3), 17.06.2019-21.06.2019, Valencia, Spain, by Dr. Joaquin Torres Sospedra, A-WEAR Scientist-in-Charge.
- **Disseminating information** about A-WEAR program during a lecture on Satellite Navigation at the BEIA 2019 Summer School for undergraduate students (Bucharest, Romania), 22.07.2019, by Dr. Alexandru Rusu, A-WEAR Scientist (see Figure 2)



Figure 2 A-WEAR program presentation during a lecture on Satellite Navigation at the BEIA 2019 Summer School for undergraduate students (Bucharest, Romania)

- **Disseminating information** about GEOTEC projects, including A-WEAR program, in IMEC, Ghent (Belgium), 27.08.2019, by Dr. Joaquin Torres Sospedra, A-WEAR Scientist-in-Charge
- **Disseminating information** about A-WEAR program in a presentation organized 28.5.2019 at Halmstad University, Halmstad, Sweden during the visit of Dr. Jari Nurmi, A-WEAR Scientist-in-Charge
- **Disseminating information** about A-WEAR program in the closing session of ICL-GNSS conference on 6.6.2019 in Nuremberg, Germany by Dr. Jari Nurmi, A-WEAR Scientist-in-Charge
- **Disseminating information** about A-WEAR program and fingerprinting in Badajoz (Spain). 13.09.2019, University of Extremadura, Faculty of Sciences, Sensory Systems Research Group (GISS), by Dr. Joaquin Torres Sospedra, A-WEAR Scientist-in-Charge
- **Disseminating information and flyers about A-WEAR** at the IPIN conference and competition, 26.09.2019-03.10.2019, Pisa, Italy, by Dr. Joaquin Torres Sospedra, A-WEAR Scientist-in-Charge (see Figure 4)
- **Disseminating information and flyers about A-WEAR program in UBICOMP 2019 conference** (<https://ubicomp.org/ubicomp2019/>, London , UK), 11.09.2019-13.09.2019, by Dr. Sven Casteleyn, A-WEAR Scientist-in-Charge





Figure 3 A-WEAR booth at EUCNC conference 2019

- **Disseminating information** about A-WEAR program during a research visit at University of Alcalá, 25.10.2019, by Dr. Joaquin Torres Sospedra, A-WEAR Scientist-in-Charge



Figure 4 A-WEAR flyers at IPIN 2019 conference

- Organizing a **special session on Wearable computing**, chaired by E.S. Lohan, A-WEAR coordinator and including and invited speech on “Overview of A-WEAR European Joint Doctorate Network”, kept by Dr. Aleksandr Ometov, the A-WEAR Project and Trainer manager, at XXXV Finnish URSI Convention on Radio Science, 18th of October 2019, Tampere Finland (<https://events.tuni.fi/ursi2019/programme/>)
- **Disseminating information** about A-WEAR program at the 1st International Workshop on Reliable and Secure Internet-of-Things and Wearables (WearIoT'2019, <https://icumt.info/2019/weariot-2019>) as part of ICUMT conference, October 28 – 30, 2019, Dublin, Ireland, by Assist. Prof. Sergey Andreev and Assoc. Prof. Jiri Hosek, scientists in charge in A-WEAR.
- **Disseminating information** about A-WEAR program on the GIS day (<http://geotec.uji.es/2019/11/15/after-gisday19uji-there-is-more-gis-to-offer/>) as part of the GEOTEC group dissemination activities about GIS-related projects, November 13, 2019, Castellón,





Spain by Dr. Carlos Granell, A-WEAR Scientist-in-Charge, and the ESRs hosted at UJI (Darwin Quezada, Pavel Pascacio and Sylvia Holcer)

- **Special Issue on “Applications and Innovations on Sensor-Enabled Wearable Devices”** at MDPI Sensors, edited by 5 scientists in charge in A-WEAR (Assoc. Prof. Elena Simona Lohan, Prof. Antonella Molinaro, Dr. Alexandru Rusu, Prof. Zdenek Smekal, and Dr. Joaquín Torres-Sospedra) and one external collaborator from Minho university, Prof Adriano Moreira.

5.5. A-WEAR published articles so far

The following articles have been co-authored by A-WEAR team members (fellows and/or supervisors); A-WEAR team members are shown in bold-faced letters

1. Mircea Ivanescu, **Nirvana Popescu**, Decebal Popescu, **Asma Channa**, Marian Poboroniuc, “Exoskeleton Hand Control by Fractional Order Models”, Journal Sensors, 19 (21), 4608; doi:10.3390/s19214608, Special Issue "Advanced Intelligent Control through Versatile Intelligent Portable Platforms", ISSN 1424-8220, 2019
2. **Asad Ali**, “Mobility-Aware Analysis of Directional Deafness in mmWave Communications”, XXXV Finnish URSI Convention on Radio Science Oct 2019, Tampere, <http://doi.org/10.5281/zenodo.3534266>
3. **Justyna Skibińska** and **Radim Burget**, “The application of deep learning techniques in the electroencephalogram (EEG) analysis”, XXXV Finnish URSI Convention on Radio Science Oct 2019, Tampere, <http://doi.org/10.5281/zenodo.3532972>
4. **Raúl Casanova Marqués** and **Jan Hajný**, “Anonymous Communication Using Wearables and Constrained Devices”, XXXV Finnish URSI Convention on Radio Science Oct 2019, Tampere, <http://doi.org/10.5281/zenodo.3530506>
5. **Lucie Klus**, **Jari Nurmi**, **Elena Simona Lohan**, and **Carlos Granell**, “Crowdsourcing Solutions for Data Gathering from Wearable”, XXXV Finnish URSI Convention on Radio Science Oct 2019, Tampere, <http://doi.org/10.5281/zenodo.3528274>
6. **Viktoriia Shubina**, **Aleksandr Ometov**, **Dragos Niculescu**, and **Elena Simona Lohan**, “Challenges of Privacy-aware Localization on Wearable Devices”, XXXV Finnish URSI Convention on Radio Science Oct 2019, Tampere, <http://doi.org/10.5281/zenodo.3522085>

5.6. A-WEAR press releases

- A-WEAR press release at Tampere University (English), 19.2.2019, <https://www.tuni.fi/en/news/eu-funded-project-wear-creating-dynamic-wearable-computing-ecosystems>
- A-WEAR press release, Universitat Jaume I (Spanish), 02.11.2019, <https://castellonplaza.com/tres-estudiantes-premiados-por-el-proyecto-europeo-a-wear-se-incorporan-al-grupo-geotec-de-la-uji>

