Supplementary information provided by EWSN community is appended to the original data submitted as a comparator.

Submission Data for 2017 CORE conference Re-ranking process
European Conference on Wireless Sensor Networks (Submitted as a comparator for IEEE International Conference on Wireless and Mobile Computing, Networking and Communications)

Submitted by: Abderrahim Benslimane abenslima@gmail.com
Supported by: Abderrahim Benslimane

Conference Details

Conference

Title: European Conference on Wireless Sensor Networks
Acronym : EWSN
Rank: A

Recent Years

Most Recent Year

Year: 2017
URL: http://www.ewsn2017.org/
Papers submitted: None
Papers published: None
Acceptance rate: None
Source for acceptance rate:

Program Chairs

Name: Luca Mottola
Affiliation: Politecnico di Milano and SICS
H index: 29
Google Scholar URL: https://scholar.google.com/citations?user=VkFc88EAAAAJ&hl=en
DBLP URL: http://dblp.uni-trier.de/pers/hd/m/Mottola:Luca

General Chairs

Name: Thiemo Voigt
Affiliation: Uppsala University and SICS
H index: 41
Google Scholar URL: https://scholar.google.se/citations?user=xSXvpjEAAAAJ&hl=sv
DBLP URL: http://dblp.uni-trier.de/pers/hd/v/Voigt:Thiemo

Second Most Recent Year

Year: 2016
URL: http://www.iti.tugraz.at/EWSN2016/cms/index.php?id=36
Papers submitted: None
Papers published: None
Acceptance rate: None
Source for acceptance rate:

Program Chairs

Name: Koen Langendoen
Affiliation: TU Delft
H index: 38
Google Scholar URL: https://scholar.google.com/citations?user=goNfvF8AAAAJ
DBLP URL: http://dblp.uni-trier.de/pers/hd/l/Langendoen:Koen

General Chairs

Name: Kay Roemer
Affiliation: TU Graz
H index: 39
Google Scholar URL: https://scholar.google.de/citations?user=Nup8qqUAAAAJ&hl=de
DBLP URL: http://dblp.uni-trier.de/pers/hd/r/R=ouml=mer:Kay

Third Most Recent Year

Year: 2015
URL: https://www.cister.isep.ipp.pt/ewsn2015/
Papers submitted: None
Papers published: None
Acceptance rate: None
Source for acceptance rate:

Program Chairs

Name: Tarek Abdelzaher
Affiliation: UIUC, USA
H index: 79
Google Scholar URL: https://scholar.google.com/citations?user=cA28Zs0AAAAJ
DBLP URL: http://dblp.uni-trier.de/pers/hd/a/Abdelzaher:Tarek_F=

General Chairs

Name: Eduardo Tovar
Affiliation: CISTER/ISEP, Portugal
H index: 31
Google Scholar URL: https://scholar.google.fr/citations?user=d6y9LBMAAAAJ&hl=fr
DBLP URL: http://dblp.uni-trier.de/pers/hd/t/Tovar:Eduardo

External Ranks

Google Scholar Rank

Sub-category URL:
https://scholar.google.com.au/citations?view_op=top_venues&hl=en&vq=eng_computernetworkswirelesscommunication
Position in sub-category: 16
h5-index of 20th item in subcategory: 52
h5-index of this conference: None
Next conference above portal link: None
h5-index of above conference: None
Next conference below portal link: None
h5-index of below conference: None

LiveSHINE rank

Class: A+
H-index: 48
RankH-index: 185
Avg citations: 31
RankAvgCitations: 87
ClassAvgCitations: A++
Publications: 233
Citations: 7376

Microsoft Academic rank

Class: A-
FiledRating: 42
RankFieldRating: 339
ClassFieldRating: B
Avg citations: 25
RankAvgCitations: 103
ClassAvgCitations: A++
Publications: 310
Citations: 7908

Where others publish

General Report

File: http://portal.core.edu.au/core/media/conf_rank_report/CORE_report1_BzstAyM.txt
List of people with h-indices:

No.	Name	h index	url
1	Hari Balakrishnan	104	https://scholar.google.fr/citations?user=Qf4bw4UAAAAJ&hl=fr&oi=sra
2	Robert Morris	68	https://scholar.google.fr/citations?user=in6eBIwAAAAJ&hl=fr&oi=sra
3	Ivan Stojmenovic	76	https://scholar.google.fr/citations?user=JpoFnJQAAAAJ&hl=fr&oi=sra
4	J. J. Garcia-Luna-Aceves	86	https://scholar.google.fr/citations?user=wLtmXGQAAAAJ&hl=fr&oi=sra
5	Hari Balakrishnan	104	https://scholar.google.fr/citations?user=Qf4bw4UAAAAJ&hl=fr&oi=sra
6	Nitin Vaidya	72	https://scholar.google.fr/citations?user=C4kPEC0AAAAJ&hl=fr&oi=sra
7	Ian F. Akyildiz	107	https://scholar.google.fr/citations?user=rAGwv14AAAAJ&hl=fr&oi=sra
8	Adrian Perrig	89	https://scholar.google.fr/citations?user=n-Oret4AAAAJ&hl=fr&oi=sra
9	Sajal K. Das	76	https://scholar.google.fr/citations?user=mbaG-mQAAAAJ&hl=fr&oi=sra
10	Lixia Zhang	91	https://scholar.google.fr/citations?user=CZyWk8kAAAAJ&hl=fr&oi=sra
11	Andrea Goldsmith	85	https://scholar.google.fr/citations?user=cPmMoXoAAAAJ&hl=fr&oi=sra
12	YANGHEE CHOI	53	https://scholar.google.fr/citations?user=Xm_UZdkAAAAJ&hl=fr&oi=sra
13	Jun-Hong Cui	53	https://scholar.google.fr/citations?user=QJbvuZEAAAAJ&hl=fr&oi=sra
14	Bhaskar Krishnamachari	69	https://scholar.google.fr/citations?user=JHJozAYAAAAJ&hl=fr&oi=sra
15	Yuguang Fang	74	https://scholar.google.fr/citations?user=dJgRKmwAAAAJ&hl=fr&oi=sra
16	Geoffrey Li	67	https://scholar.google.fr/citations?user=d0FzG8YAAAAJ&hl=fr&oi=sra
17	Jie Wu	82	https://scholar.google.fr/citations?user=BVlfmXMAAAAJ&hl=fr&oi=sra
18	Ahmed Helmy	45	https://scholar.google.fr/citations?user=QcO9p8AAAAAJ&hl=fr&oi=sra
19	Suman Banerjee	50	https://scholar.google.fr/citations?user=cLb-v7gAAAAJ&hl=fr&oi=sra
20	Jean-Pierre Hubaux	78	https://scholar.google.fr/citations?user=W7YBLlEAAAAJ&hl=fr&oi=sra

Keyword: Communications Technology
Reference Item:

Wireless Communications and Mobile Networks

Specialised Report

File: http://portal.core.edu.au/core/media/conf_rank_report/CORE_report2_4l0qENe.txt
List of people with h-indices:

No.	Name	h index	url
1	Eitan Altman	67	https://scholar.google.fr/citations?user=pEfJPSOAAAAJ&hl=fr
2	Mohsen Guizani	44	https://scholar.google.fr/citations?user=RigrYkcAAAAJ&hl=fr
3	Abdol Hamid Aghvami	54	https://scholar.google.fr/citations?user=YNhXReIAAAAJ&hl=fr
4	Mischa Dohler	52	https://scholar.google.fr/citations?user=5K1mZq0AAAAJ&hl=fr
5	Victor Leung	64	https://scholar.google.fr/citations?user=ajvCoo4AAAAJ&hl=fr
6	Nei Kato	46	https://scholar.google.fr/citations?user=LfLfZXEAAAAJ&hl=fr
7	Nirwan Ansari	58	https://scholar.google.fr/citations?user=dm5-hqIAAAAJ&hl=fr
8	Mohamed Younis	49	https://scholar.google.fr/citations?user=yiowNmAAAAAJ&hl=fr
9	Hossam S. Hassanein	44	https://scholar.google.ca/citations?user=lHX_OIoAAAAJ
10	Xuemin Shen	85	https://scholar.google.fr/citations?user=Bjl3GwoAAAAJ&hl=fr
11	Hussein T. Mouftah	51	https://scholar.google.fr/citations?user=33FmwbwAAAAJ&hl=fr
12	Lajos Hanzo	68	https://scholar.google.co.uk/citations?user=p0jnEW0AAAAJ
13	Kwang-cheng Chen	43	https://scholar.google.fr/citations?user=p0DAPSYAAAAJ&hl=fr
14	Athanasios V. Vasilakos	81	https://scholar.google.fr/citations?user=_yWPQWoAAAAJ&hl=fr
15	Rahim Tafazolli	45	https://scholar.google.fr/citations?user=E8uwGXMAAAAJ&hl=fr
16	Falko Dressler	40	https://scholar.google.fr/citations?user=sK8213AAAAAJ&hl=fr
17	George K. Karagiannidis	54	https://scholar.google.fr/citations?user=7FZ1r94AAAAJ&hl=fr
18	Mohamed-Slim Alouini	71	https://scholar.google.fr/citations?user=HqIyyXcAAAAJ&hl=fr
19	Abbas Jamalipour	40	https://scholar.google.fr/citations?user=8RYYICoAAAAJ&hl=fr
20	Pascal Frossard	40	https://scholar.google.fr/citations?user=-Ve9sJ0AAAAJ&hl=fr

Keyword: Wireless communications and Mobile Networks
Reference Item:

Wireless Communications and Mobile Networks

Request to retain the “A” ranking for EWSN

EWSN is generally considered to be one of the top-3 conferences in the area of “networked embedded sensing” (after SenSys and IPSN), it is the leading conference in Europe and is regularly attended by the European leaders in the field as well as leading international scholars. EWSN was established in 2004 as a workshop on “wireless sensor networks” and as the research field has evolved and broadened substantially since, EWSN has been adapted in 2016 to reflect this in several ways as summarized below:

- The field has been broadened from “Wireless Sensor Networks” to “Embedded Wireless Systems and Networks”, and the title (but not the acronym) has been changed to reflect this broadened scope.
- EWSN name has been changed from “European” to “International” reflecting the worldwide interest and participation. While the venue will be mostly located in Europe, it will be occasionally held outside Europe. For example the 2019 event will be held in Beijing, China on the campus of Tsinghua University (the leading technical university in China, rank 14 in THES).
- Since 2016, EWSN hosts a very successful competition and two workshops on emerging new topics in the scope of EWSN. The EWSN competition is unique of its kind and has attracted great interest of academia and industry alike - which is very difficult to achieve even at SenSys and IPSN.
- Since 2016, EWSN is held in cooperation with ACM SIGBED and papers are published in the ACM Digital Library using an open access model - so all the papers can be downloaded free of charge by everybody. All conference papers, poster/demo abstracts, workshop papers, competition entries are published.
- Since 2016, the rigor of the review process has been further strengthened, including the addition of a rebuttal phase where authors can give feedback about the reviews to the TPC members; and including the addition of a one-day TPC meeting where paper selection is carefully discussed among the TPC members.
- Since 2016, full papers are 12 pages long in the ACM layout (10 pt font, two columns), this allows including detailed technical descriptions of the research, helping reproducibility of results.

Using this new model, each of the past two EWSN editions (2016 and 2017) was highly successful with about 150 attendees from more than 25 countries, and a total of about 140 submissions in all categories. Full-paper acceptance rate was 23% in 2016, and 24% in 2017.

We strongly believe that the revised EWSN meets many of the criteria of an A* conference, and certainly all criteria of an A conference. In the following we discuss how EWSN meets the criteria - in addition please find enclosed also the reports from EWSN 2016 and 2017 which have been submitted to ACM SIGBED.

> *Characteristics of A* Conferences include that:*
>
> ● *They are highly visible and well known both within their own community and amongst computer scientists outside that community, and almost all leading researchers will agree the conference is A* or A.*

EWSN is generally considered to be among the top-3 conferences in networked embedded sensing, it is the leading conference in Europe. Anybody working in the field knows the conference. Many of the authors publishing papers at EWSN also publish papers at SenSys or IPSN too, including researchers that obtained Best Paper Awards at either of the latter conferences.

> ● *They play a major role in the annual calendar cycle for the area, with an ecosystem of related and co-located events such as doctoral consortia and workshops.*

EWSN has an important role in the annual calendar, its timing is scheduled to fill the time gap between SenSys and IPSN, it has always hosted tutorials, since 2016 it is hosting a competition and two workshops on emerging topics.

> ● *They are routinely attended by the research leaders of the area, whether or not they have work to present that year; and even if attending that conference is the sole purpose for their travel (to the other side of the world).*

All leading European researchers and many international researchers attend the conference every year, with many having attended almost all conference editions since 2004.

> ● *Researchers preparing career highlights (for example, top 10 career papers for grant applications, etc) regard A* Conference papers as key inclusions, because the whole community has a high regard for those venues.*

Each of us has seen such citations while reviewing cases for promotion - including cases for promotion at the world leading Universities.

> ● *Being an invited keynote speaker at an A* Conference is a significant career highlight.*

2016 and 2017 keynote speakers are leaders in the fields, both academia and industry:

Prof. Friedemann Mattern, ETH Zurich – pioneer in Ubiquitous Computing and Internet of Things, h-Index 44 (Google Scholar)

Prof. Chenyang Lu, WUSTL – leader in real-time sensing systems, h-Index 57

Prof. Kia Höök, KTH – leader in mobile interaction, h-Index 41

Sara Mazur, Vice President and Head of Research at Ericsson – industry leader in mobile networking

> ● *Reviews of papers are undertaken by international leaders who have published in the area of the submitted work, and provide detailed and extended feedback.*

All TPC members have actively published in the field and are often themselves leaders in their fields. All papers are personally reviewed by the TPC members, no delegation.

> ● *The time between submission deadline and review notification is measured in multiple months, and is similar to what is achieved by excellent journals*

Time between submission and notification is 2.5 months. The leading international journals are now struggling to achieve a 3 months period. Most papers receive 4 to 6 detailed reviews, written by the TPC members themselves. Authors have the possibility for a rebuttal. Online discussion of the papers among TPC members leads to a pre-selection of papers, final selections are performed during a one-day TPC meeting. We believe that he standard of the reviewing process meets to full extent the best practice of the community.

- *Being invited to be a PC Chair of an A* Conference is a significant professional recognition, and PC Chairs will be likely to have h-indexes of 25+, and to have already published multiple times in that conference.*

The general and program chairs of the 2016 and 2017 editions are leaders in the field.

Prof. Kay Römer, TU Graz – h-Index 40 (Google Scholar)

Prof. Koen Langendoen, TU Delft – h-Index 39

Prof. Thiemo Voigt, Uppsala University – h-Index 41

Prof. Chenyang Lu, WUSTL – h-Index 57

Prof. Luca Mottola, Politecnico di Milano – h-Index 31

- *They have acceptance rates that are typically 20% or less, with many more "acceptable" papers submitted than can be accommodated in the conference program.*

Full paper acceptance rate was 23% in 2016, and 24% in 2017. Many "good" - not only "acceptable" - papers are rejected!

For these reasons, the undersigning persons – as a small sample of the EWSN community – request to retain the “A” ranking for EWSN.

Prof. Domenico Giustiniano, IMDEA Networks Institute, Spain

Prof. Koen Langendoen, TU Delft, The Netherlands

Prof. Chenyang Lu, Washington University St. Louis, US

Prof. Luca Mottola, Politecnico di Milano, Italy

Prof. Kay Römer, TU Graz, Austria

Prof. Niki Trigoni, University of Oxford, UK

Prof. Thiemo Voigt, Uppsala University, Sweden

Prof. Adam Wolisz, TU Berlin, Germany & UC Berkeley, US

International Conference on Embedded Wireless Systems and Networks

February 15. – 17. 2016

Graz, Austria

REPORT ON INTERNATIONAL CONFERENCE ON EMBEDDED WIRELESS SYSTEMS AND NETWORKS (EWSN2016)

Originally established as the European Conference on Wireless Sensor Networks in 2004, EWSN has been the major European outlet for sensor networks research and a yearly gathering point for the research community. Starting from sensor networks, research has expanded over the years into other related fields such as Internet of Things, where the focus is on providing Internet connectivity to embedded systems, or Cyber-Physical Systems where the focus is on inclusion of networked control aspects. Yet, all these areas share the focus on wirelessly networked embedded systems.

To reflect this broadened field, the acronym EWSN now expanded to International Conference on Embedded Wireless Systems and Networks. Also new in 2016, the conference had a featured topic to put a focus on a hot topic, but without excluding other topics in scope of the conference. The 2016 featured topic was dependability, reflecting the trend that wirelessly networked embedded systems are increasingly used in safety-critical applications such as smart production systems that require dependable performance. To this end, EWSN 2016 featured for the first time a dependability competition where international teams competed in providing the most reliable networking solution in environments with strong interference. To open EWSN also to new emerging topics, two workshops have been added to the program that explored novel wireless communication paradigms such as visible light communication and to shed light on how the next generation of wireless embedded computing platforms will look like.

Besides these changes at the naming and content levels, EWSN 2016 was also held for the first time in cooperation with ACM SIGBED. The proceedings were published electronically in the ACM Digital Library, following an open access model where the papers are made available online and free of charge to everybody in order to maximize the impact of the research results published at EWSN.

Short Program Descriptions and Quality Assessments

Full and Short Papers

The featured topic of the 2016 edition of EWSN was “Dependability” and we specifically welcomed contributions that aimed at making networked embedded systems more reliable, predictable, safe, and secure in order to enable critical applications that require guaranteed performance. Topics not related to dependability were equally welcome as long as they fell into the scope of the conference (i.e., wireless networked embedded systems).

Quality assessment: Overall the new EWSN conference was much better attended than previous editions (ca. 150 participants in 2016 vs. ca. 70 in 2015). We attribute this to widening the scope of the conference and introducing the concept of a featured topic, being dependability for 2016. In addition, also the workshops and the competition attracted attendees. We received 70 submissions (two of which were later withdrawn), of which 16 (23.5%) got accepted as full papers after a thorough review process. In addition, 5 paper were accepted as short papers and presented in a dedicated short paper session. All submitted papers received at least three reviews, many papers received even four reviews. A new element was the rebuttal phase, which helped in several cases in deciding if a paper could be accepted or not as, for example, the authors could identify the availability of extra experimental data clearing the doubt and confusion of the 1st round reviewers. A physical TPC meeting was held in Amsterdam to decide about paper acceptance. The shepherding process also enhanced the general quality of the selected papers. With the help of the TPC a best paper was selected. This paper had only positive reviews (which was also true for around 10 other accepted papers). First-hand feedback from the conference participants confirmed the relevance and quality of the technical program.

Poster and Demos

Along with full research papers, EWSN solicited submissions of poster and demo abstracts whose contribution were publicly presented during the conference. The poster session at EWSN provided a forum for researchers to present their work in progress and to receive feedback from experts attending the conference. In parallel to the poster session, the demo session offered a unique opportunity to showcase real prototypes, tools, and systems to the conference attendees.

Quality assessment: We had an exciting poster and demo session at EWSN 2016 with a total of 34 contributions, including 18 posters and 16 demos. Each poster and demo submission was peer-reviewed by at least 2 reviewers to ensure quality and scope. The poster and demo session had 37 submissions out of which 34 were accepted. Accepted submissions had a minimum average score of 2.4 in a scale 1 to 4. We selected junior researchers, mainly PostDocs and young Assistant Professors, for the TPC of the poster and demo session to introduce them to the research community and the review process. During the conference, poster and demo authors joined a "one-minute madness" session to showcase their work to the entire audience. For the first time at EWSN, a "Best poster/demo teaser award" was

granted based on public vote. We collected more than 50 votes that were used for the decision.

Dependability Competition

Low-power wireless sensor networks are becoming an integral part of our daily lives and are envisioned to be soon employed in application domains imposing strict dependability requirements on network performance, such as Smart Production, Smart Cities, or Connected Cars. One of the biggest challenges in order to achieve dependable communications in these settings is the increasing congestion of the freely available ISM bands. The presence of RF interference from surrounding devices operating at high power may indeed cause a substantial packet loss and a drastic increase in latency and energy consumption. Over the last decade, a large number of communication protocols and RF mitigation techniques have been proposed by both academia and industry, but their performance in congested environments has rarely been benchmarked under the same settings. This competition aimed to compare the performance of different WSN/IoT communication protocols in environments rich with radio interference.

Quality assessment: The first edition of the EWSN dependability competition was a great success and had three main highlights. The first highlight was the high participation from both academia and industry: 49 authors from 13 different countries answered to the call for competitors with 13 high-quality submissions. The submissions were evaluated to identify submissions which would not fit the technical requirements of the evaluation setup. In the end, 11 international teams (2 of which industrial) have competed for two days striving to provide the most reliable and efficient networking solution in the presence of radio interference.

The second highlight was the technical quality and variety of the presented solutions, ranging from adaptive and time-slotted frequency-hopping to multi-modal routing and flooding techniques: all contestants were carefully evaluated based on three distinct metrics and two additional prizes were awarded given the high quality of the solutions.

The third highlight was the positive feedback received from the competitors and the research community, giving high credit for our first attempt to benchmark RF mitigation techniques under the same settings and strongly encouraging us to repeat the event in 2017.

MadCom Workshop

For the last two decades radio frequency (RF) has been at the core of the revolution enabling wireless communication for the Internet of Things (IoT). But RF communication has been a victim of its own success, the ever increasing number of devices joining the IoT are saturating the RF bandwidth. We need alternative ways to exploit RF technology and to use other means to transmit data wirelessly. The aim of this workshop was to bring together researchers and practitioners from different communities to discuss and explore novel wireless communication technologies for the IoT.

Quality assessment: The first edition of MadCom had overall a positive balance. Three points are worth highlighting. First, the quality of publications. We received ten submissions and all received between 3 and 4 reviews. The six accepted papers had average scores ranging from

1 to 1.8 (the maximum possible score was 2 and the lowest -2). No borderline paper was accepted. Second, the wide range of topics. The technical program included visionary talks, such as the one from Dr. Craig Partridge --a renowned networking researcher--, and deep technical presentations on various novel areas of wireless communication: visible light communication, backscatter and LoRa. Third, the encouraging feedback from the community. No presentation had too few questions, in fact a few presentations had the opposite problem. The invited speaker, Dr. Stefan Mangold, was positively surprised with the high attendance (70+ people due to co-location with EWSN) and the active participation from the audience. On the flip side, we did not attract as many submissions as we hoped, which is always a challenge for a new event. With the exposure to a wide audience this year, we expect to receive more submissions for the next edition.

NextMote Workshop

The hardware for networked embedded systems and Internet of Things (IoT) has evolved significantly over the last decades. During this time so called "motes" and smartphones have emerged as the predominant computing platforms. However, as the number of devices and applications continue growing in numbers and reducing in size, novel, superior platforms should emerge. Let us call these new platforms "NextMote". This workshop aimed to ask the question: what comes after motes and smartphones for the communication and computation needs in the world of IoT and remote distributed sensing. What will be the NextMote platform?

Quality assessment: The average evaluation for all nine paper submissions were to accept, however, due to the size of the workshop only six papers with the highest scores were accepted. The topics of the papers ranged from the security to the hardware challenges in next generation of miniature IoT devices. It was great to see the papers reflecting novel research results as well as software and simulation tools being used for the future devices as the workshop participants included both the developers of the tools and the researchers using them. Notably, the keynote presentation shared the vision and challenges on the road to millimeter sized wireless sensor devices and set a great tone for the workshop, and sparked engaging discussions during and after the presentation.

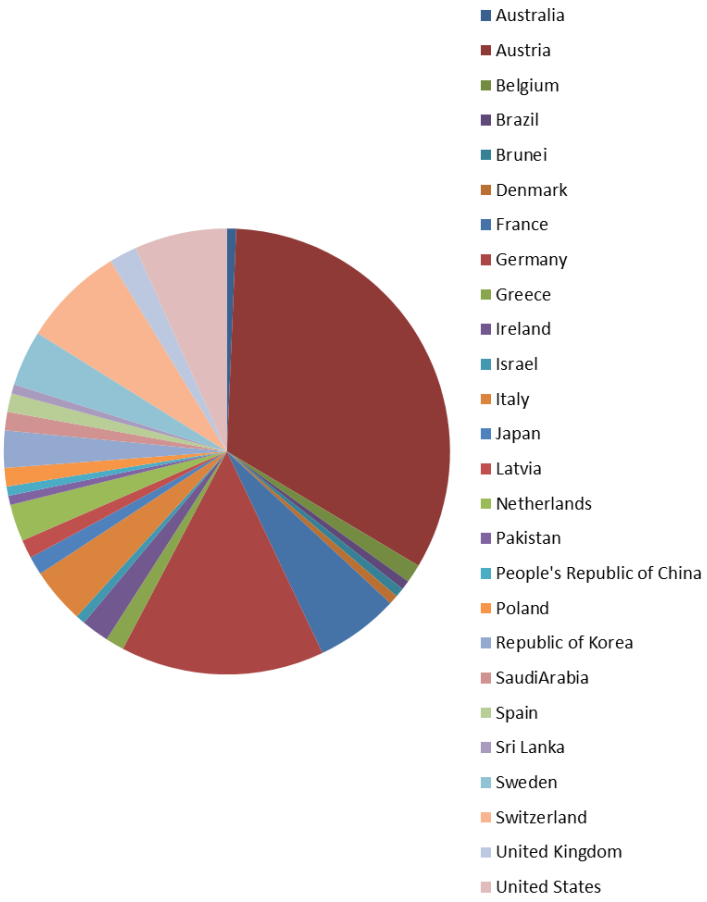
Number of Paper Submissions and Acceptance

	Number of Submissions	Number of Acceptance
Workshops	19	12
Full and short papers	68 (98 abstracts)	21 (5 short+16 full)
Posters	20	18
Demonstrations	17	16
Dependability Competition	13 submissions 11 international teams (2 industrial) competed 49 authors from 13 countries	

Participants by Countries

The conference did have a single category of participants.

Australia	1
Austria	49
Belgium	2
Brazil	1
Brunei	1
Denmark	1
France	9
Germany	22
Greece	2
Ireland	3
Israel	1
Italy	6
Japan	2
Latvia	2
Netherlands	4
Pakistan	1
People's Republic of China	1
Poland	2
Republic of Korea	4
Saudi Arabia	2
Spain	2
Sri Lanka	1
Sweden	6
Switzerland	11
United Kingdom	3
United States	10
In total	**149**



Sponsors

Financial Contribution	Funding Social Events
Technical University of Graz (TU Graz)	City of Graz
University of Lübeck (through the makeSense project)	Federal State of Styria
NXP Semiconductors Austria GmbH	

High Level Financial Numbers

INCOME

Registration fees	36712,98 €
Technical University of Graz	5000 €
University of Lübeck (through the makeSense project)	10000 €
NXP	1000 €
In total	**52712,98 €**

SPENDING

Technical Program Committee Meeting (venue and catering)	682,5 €
Keynote speakers	4123,26 €
Online Registration System	2594 €
Awards	1750 €
Catering	14292,54 €
Social Events	1060 €
Audio/Video-Services	1776 €
Proceedings	4618,06 €
Printing	271 €
Giveaways	1249,71 €
Minor items	45,5 €
In total	**32462,24€**

TOTAL INCOME	**52712,98 €**
TOTAL SPENDING	**32462,24 €**
BALANCE	**20250,74 €**

Short report on EWSN 2017 in Uppsala, Sweden, in-cooperation with ACM SigBED

Originally established as the European Conference on Wireless Sensor Networks in 2004, EWSN has been the major European outlet for sensor networks research and a yearly gathering point for the research community. In 2016, we expanded the EWSN acronym to International Conference on Embedded Wireless Systems and Networks. The name change reflected the expansion of EWSN's scope in the recent years into other related fields such as Internet of Things, where the focus is on providing Internet connectivity to embedded systems, or Cyber-Physical Systems where the focus is on inclusion of networked control aspects.
As in 2016, the conference had the featured topic dependability conference, reflecting the trend that wirelessly networked embedded systems are increasingly used in safety-critical applications such as smart production systems that require dependable performance. To this end, EWSN again hosted the dependability competition where international teams from academia and industry competed in providing the most reliable networking solution in environments with strong interference.
Building on the success of the workshop at EWSN 2016, EWSN 2017 also hosted two workshops that focused on New Wireless Communication Paradigms for the Internet of Things (MadCom) and the platforms for embedded communication and computation that come after the current generation of motes and smartphones (NextMote).

Short Program Descriptions and Quality Assessments

Main conference

The main conference received 76 submissions and accepted 18 which makes an acceptance rate of 24%. All submitted papers received at least three reviews, many papers received even four reviews. As in 2016, a rebuttal phase was included, which helped in several cases in deciding if a paper could be accepted or not as, for example, the authors could identify the availability of extra experimental data clearing the doubt and confusion of the 1st round reviewers. A physical TPC meeting was held in Milan to decide about paper acceptance. The shepherding process also enhanced the general quality of the selected papers.
Out of the 18 papers, 16 were accepted as full papers and received a 30 minute slot while two were accepted as short papers and received a 20 minute slot. The program was divided into six sessions and included a best paper candidate session. Among these papers, both the audience as well as the program committee and TPC co-chairs voted for the best paper. The best paper award went to a paper on animal-borne sensor nodes.

Poster and Demo Session

We received 44 submissions for posters and demos and accepted 36: 15 demos and 21 posters. The poster and demo session was started by one minute presentations of all demos and posters followed by a more than two hours exhibition of the posters and demos. One hour

into the exhibition, the reception opened to make people stay which turned out to work very well and resulted into a very lively session. Several demos were large setups that required several square meters to showcase the authors' latest research results. The best poster award went to a poster on a switchable directional antenna system for Internet of Things applications based on ultra-wideband. The best demo award went to a system that used a novel secondary channel to provide low-power wakeup and time synchronization of nodes.

Workshops

The two workshops (MadCom and NextMote) received 21 papers and accepted 14 of them. Both workshops were run on a separate day before the main conference: NextMote in the morning and MadCom after lunch. The four papers in the NextMote workshop touched topics such as novel hardware (both for robots and IoT nodes), software-defined radios for cognitive radios and novel hardware for breakage detection in electric fences. The MadCom papers included long-range sensor networks (such as LoRa), visible light communication as well as localisation-based and inter-technology communication. As last year, the conference fee included the workshops which helped to attract a large audience of over 100 people.

Dependability Competition

The EWSN dependability competition received 12 submissions and accepted 11. Notable is that five of the teams had participants from industry (including ABB, Cisco, Airbus, Toshiba and Infineon). The competition itself was held in a University building on the weekend before the main conference started. The testbed setup for this was an improved version of the testbed used in Graz in 2016. The university building is a challenging environment with very thick concrete walls. As in the previous year, the winner was a Glossy-based solution. The winning team was from ETH Zurich with their contribution called "Robust Flooding using Back-to-Back Synchronous Transmissions with Channel-Hopping". Authors were Roman Lim, Reto Da Forno, Felix Sutton, and Lothar Thiele. Despite the challenging radio environment, the winning solution had improved over the winner from the previous year in several metrics.

Keynotes

The conference host three keynotes. On the first day Prof. Kristina Höök from KTH Stockholm talked about "Designing for actuation - not sensing". In her talk, she also discussed the relation between networked embedded system and interaction design. Prof. Xia Zhou from Dartmouth College, USA, gave a very interactive keynote on her work on visible light communication and sensing. The third keynote was given by Dr. Sara Mazur, the head of Ericsson Research. She gave a very nice perspective on Ericsson's view, in particular highlighting the relation between the upcoming 5G standard and the Internet of Things.

Attendance

The conference attracted 140 persons, both from industry and academia. As in 2016, the audience came from 25 countries. EWSN was thus able to keep the high number of registrations from the previous year that almost double the number of registrations compared to 2015.
We tried to keep the registration fee as low as possible for everyone and thus had only two categories: early and later registration. Around 20 people registered late and paid the slightly higher fee.

Name	h-Index	Link to Google Scholar
John A. Stankovic	114	https://scholar.google.at/citations?user=4VJre9IAAAAJ&hl=de&oi=ao
Mark Horowitz	113	https://scholar.google.at/citations?user=e7V7-gEAAAAJ&hl=de&oi=ao
Leonidas J. Guibas	110	https://scholar.google.at/citations?user=5JlEyTAAAAAJ&hl=de&oi=ao
Martin Vetterli	104	https://scholar.google.at/citations?user=YQcU3NYAAAAJ&hl=de&oi=ao
Dan Boneh	101	https://scholar.google.at/citations?user=MwLqCs4AAAAJ&hl=de&oi=ao
Elisa Bertino	93	https://scholar.google.at/citations?user=EfuT9RoAAAAJ&hl=de&oi=ao
Luca Benini	92	https://scholar.google.at/citations?user=8riq3sYAAAAJ&hl=de&oi=ao
Jon Crowcroft	86	https://scholar.google.at/citations?user=qnMs-XYAAAAJ&hl=de&oi=ao
Jie Wu 0001	84	https://scholar.google.at/citations?user=BVlfmXMAAAAJ&hl=de&oi=ao
Tarek F. Abdelzaher	82	https://scholar.google.at/citations?user=cA28Zs0AAAAJ&hl=de&oi=ao
Sajal K. Das	79	https://scholar.google.at/citations?user=mbaG-mQAAAAJ&hl=de&oi=ao
Lionel M. Ni	78	https://scholar.google.at/citations?user=OzMYwDIAAAAJ&hl=de&oi=ao
Roger Wattenhofer	76	https://scholar.google.at/citations?user=EG3VPm4AAAAJ&hl=de&oi=ao
Dian Zhang	75	https://scholar.google.at/citations?user=QIFXp1IAAAAJ&hl=de&oi=ao
Lothar Thiele	75	https://scholar.google.at/citations?user=OaAKHewAAAAJ&hl=de&oi=ao
H. T. Kung	74	https://scholar.google.at/citations?user=iLQqwosAAAAJ&hl=de&oi=ao
Krithi Ramamritham	73	https://scholar.google.at/citations?user=LFLG5pcAAAAJ&hl=de&oi=ao
Andrew T. Campbell	73	https://scholar.google.at/citations?user=rthco5oAAAAJ&hl=de&oi=ao
Michele Zorzi	71	https://scholar.google.at/citations?user=Z7d93ZYAAAAJ&hl=de&oi=ao
Bhaskar Krishnamachari	70	https://scholar.google.at/citations?user=JHJozAYAAAAJ&hl=de&oi=ao
Karl Henrik Johansson	63	https://scholar.google.at/citations?user=wWCUYdsAAAAJ&hl=de&oi=ao
Peter I. Corke	63	https://scholar.google.at/citations?user=wnePPc4AAAAJ&hl=de&oi=ao
Danny Dolev	61	https://scholar.google.at/citations?user=RAt7zSUAAAAJ&hl=de&oi=ao
Marco Conti	61	https://scholar.google.at/citations?user=KniFTD0AAAAJ&hl=de&oi=ao
Rajesh K. Gupta	61	https://scholar.google.at/citations?user=I1w51gUAAAAJ&hl=de&oi=ao
Piet Demeester	61	https://scholar.google.at/citations?user=4zukFJAAAAAJ&hl=de&oi=ao
Chenyang Lu	59	https://scholar.google.at/citations?user=tCq7Wx0AAAAJ&hl=de&oi=ao
Cecilia Mascolo	58	https://scholar.google.at/citations?user=Ej4BNaQAAAAJ&hl=de&oi=ao
Jie Liu	55	https://scholar.google.at/citations?user=AJKK2ikAAAAJ&hl=de&oi=ao
Adam Wolisz	55	https://scholar.google.at/citations?user=Gq8gWX4AAAAJ&hl=de&oi=ao
Philip Levis	55	https://scholar.google.at/citations?user=I_YsXU4AAAAJ&hl=de&oi=ao
Ralf Steinmetz	53	https://scholar.google.at/citations?user=S8m0ZkkAAAAJ&hl=de&oi=ao
Carlo Ghezzi	52	https://scholar.google.at/citations?user=Y8BLBGcAAAAJ&hl=de&oi=ao
Kurt Rothermel	51	https://scholar.google.at/citations?user=LWI2KAMAAAAJ&hl=de&oi=ao
Gerhard Tröster	53	https://scholar.google.at/scholar?start=50&q=gerhard+tr%C3%B6ster&hl=de&as_sdt=0,5
John S. Baras	50	https://scholar.google.at/citations?user=xuguQ60AAAAJ&hl=de&oi=ao
Wendi Rabiner Heinzelman	49	https://scholar.google.at/citations?user=myYVVuYAAAAJ&hl=de&oi=ao
Manfred Hauswirth	48	https://scholar.google.at/citations?user=WwjTJ3YAAAAJ&hl=de&oi=ao
Jon Timmis	48	https://scholar.google.at/citations?user=x8_L6ugAAAAJ&hl=de&oi=ao
Gian Pietro Picco	47	https://scholar.google.at/citations?user=DqcmXQ8AAAAJ&hl=de&oi=ao
Craig Partridge	47	https://scholar.google.at/citations?user=g354yLwAAAAJ&hl=de&oi=ao
Neil M. White	46	https://scholar.google.at/citations?user=-KqNHGQAAAAJ&hl=de&oi=ao
Twan Basten	44	https://scholar.google.at/citations?user=n44D8DUAAAAJ&hl=de&oi=ao
Andreas Terzis	43	https://scholar.google.at/citations?user=NcIqQ88AAAAJ&hl=de&oi=ao
Thiemo Voigt	42	https://scholar.google.at/citations?user=xSXvpjEAAAAJ&hl=de&oi=ao
Suman Nath	42	https://scholar.google.at/citations?user=-gousdQAAAAJ&hl=de&oi=ao
Prabal Dutta	42	https://scholar.google.at/citations?user=H790-zwAAAAJ&hl=de&oi=ao
Anish Arora	41	https://scholar.google.at/citations?user=Bn0zSwQAAAAJ&hl=de&oi=ao
Sándor P. Fekete	41	https://scholar.google.at/citations?user=VBIx-BsAAAAJ&hl=de&oi=ao
Kay Römer	41	https://scholar.google.at/citations?user=Nup8qqUAAAAJ&hl=de&oi=ao
Walter Lang	41	https://scholar.google.at/citations?user=hveaqzoAAAAJ&hl=de&oi=ao
Adam Dunkels	41	https://scholar.google.at/citations?user=GM0X9ZIAAAAJ&hl=de&oi=ao
Ingrid Moerman	41	https://scholar.google.at/citations?user=yQF0A_0AAAAJ&hl=de&oi=ao
Ákos Lédeczi	40	https://scholar.google.at/citations?user=taqkLgoAAAAJ&hl=de&oi=ao
Shuigeng Zhou	40	https://scholar.google.at/citations?user=yAE-Av4AAAAJ&hl=de&oi=ao
Refik Molva	40	https://scholar.google.at/citations?user=KufrHlgAAAAJ&hl=de&oi=ao
Guoliang Xing	40	https://scholar.google.at/citations?user=kI5JKs8AAAAJ&hl=de&oi=ao
Alcherio Martinoli	40	https://scholar.google.at/citations?user=uVTR_eoAAAAJ&hl=de&oi=ao
Christian Bettstetter	40	https://scholar.google.at/citations?user=ymlpYBYAAAAJ&hl=de&oi=ao

Conferences that published the following experts: Neil M. White, Carlo Ghezzi, John A. Stankovic, Andreas Terzis, Adam Wolisz, Philip Levis, Manfred Hauswirth, Dian Zhang, Dan Boneh, Sándor P. Fekete, Alcherio Martinoli, H. T. Kung, Lionel M. Ni, Walter Lang, Thiemo Voigt, Twan Basten, Mark Horowitz, Kay Römer, Guoliang Xing, Martin Vetterli, Chenyang Lu, Kurt Rothermel, Sajal K. Das, Refik Molva, Prabal Dutta, Wendi Rabiner Heinzelman, John S. Baras, Suman Nath, Cecilia Mascolo, Rajesh K. Gupta, Leonidas J. Guibas, Marco Conti, Danny Dolev, Elisa Bertino, Bhaskar Krishnamachari, Krithi Ramamritham, Gerhard Tröster, Andrew T. Campbell, Jon Timmis, Lothar Thiele, Roger Wattenhofer, Jie Wu 0001, Jon Crowcroft, Adam Dunkels, Karl Henrik Johansson, Gian Pietro Picco, Anish Arora, Ralf Steinmetz, Christian Bettstetter, Shuigeng Zhou, Piet Demeester, Tarek F. Abdelzaher, Craig Partridge, Ingrid Moerman, Jie Liu, Michele Zorzi, Peter I. Corke, Ákos Lédeczi, Luca Benini

Ranking order is first by number of the above people publishing in the venue, then by number of their publications, then by number of years with at least one publication from these people.

1. European Conference/Workshop on Wireless Sensor Networks

This conference was published at 103 times by 59 of 59 experts in the last 10 years.

The experts that publish at this conference are: Gerhard Tröster(1), Neil M. White(1), Carlo Ghezzi(1), John A. Stankovic(2), Andreas Terzis(5), Adam Wolisz(3), Philip Levis(1), Adam Dunkels(4), Dian Zhang(1), Rajesh K. Gupta(1), Alcherio Martinoli(2), Craig Partridge(1), Roger Wattenhofer(1), Walter Lang(3), Thiemo Voigt(14), Twan Basten(1), Mark Horowitz(1), Guoliang Xing(2), Martin Vetterli(1), Chenyang Lu(1), Kurt Rothermel(1), Karl Henrik Johansson(1), Sajal K. Das(1), Refik Molva(1), Prabal Dutta(3), Wendi Rabiner Heinzelman(1), John S. Baras(1), Kay Römer(5), Suman Nath(1), Ákos Lédeczi(2), Cecilia Mascolo(2), Dan Boneh(1), Manfred Hauswirth(1), Leonidas J. Guibas(1), Marco Conti(1), Danny Dolev(1), Elisa Bertino(1), Bhaskar Krishnamachari(2), Krithi Ramamritham(1), Andrew T. Campbell(1), Jon Timmis(1), Lothar Thiele(8), Lionel M. Ni(1), Jie Wu 0001(1), Jon Crowcroft(1), Sándor P. Fekete(2), Gian Pietro Picco(7), Anish Arora(1), Ralf Steinmetz(2), Christian Bettstetter(1), Shuigeng Zhou(1), Piet Demeester(1), Tarek F. Abdelzaher(3), H. T. Kung(1), Ingrid Moerman(4), Jie Liu(1), Michele Zorzi(1), Peter I. Corke(1), Luca Benini(2)

In 2007, there were 11 publications by 11 experts: Anish Arora, Shuigeng Zhou, Dian Zhang, Kurt Rothermel, Sándor P. Fekete, Refik Molva, Lothar Thiele, Lionel M. Ni, Karl Henrik Johansson, Ákos Lédeczi, Gian Pietro Picco

In 2008, there were 11 publications by 11 experts: Gerhard Tröster, Andreas Terzis, Sajal K. Das, Danny Dolev, Krithi Ramamritham, Adam Wolisz, Andrew T. Campbell, Kay Römer, Michele Zorzi, Luca Benini, Gian Pietro Picco

In 2009, there were 12 publications by 12 experts: Wendi Rabiner Heinzelman, Andreas Terzis, Adam Wolisz, Martin Vetterli, Marco Conti, Guoliang Xing, Adam Dunkels, Walter Lang, Peter I. Corke, Twan Basten, Thiemo Voigt, Gian Pietro Picco

In 2010, there were 12 publications by 14 experts: Cecilia Mascolo, Ralf Steinmetz, Guoliang Xing, Adam Wolisz, Manfred Hauswirth, Suman

Nath, Andreas Terzis, Tarek F. Abdelzaher, Kay Römer, Adam Dunkels, Thiemo Voigt, Sándor P. Fekete, Ákos Lédeczi, Gian Pietro Picco

In 2011, there were 5 publications by 5 experts: Thiemo Voigt, Rajesh K. Gupta, Neil M. White, Leonidas J. Guibas, Adam Dunkels

In 2012, there were 4 publications by 6 experts: Cecilia Mascolo, Prabal Dutta, Andreas Terzis, Lothar Thiele, Thiemo Voigt, Jon Crowcroft

In 2013, there were 3 publications by 4 experts: John S. Baras, Piet Demeester, Ingrid Moerman, Thiemo Voigt

In 2014, there were 3 publications by 3 experts: Lothar Thiele, Thiemo Voigt, John A. Stankovic

In 2015, there were 7 publications by 7 experts: John A. Stankovic, Ralf Steinmetz, Jie Liu, Thiemo Voigt, Jie Wu 0001, Chenyang Lu, Gian Pietro Picco

In 2016, there were 18 publications by 16 experts: Dan Boneh, Carlo Ghezzi, Prabal Dutta, Christian Bettstetter, Philip Levis, Bhaskar Krishnamachari, Alcherio Martinoli, Tarek F. Abdelzaher, Craig Partridge, Ingrid Moerman, Jon Timmis, Thiemo Voigt, Walter Lang, Roger Wattenhofer, Mark Horowitz, Lothar Thiele

In 2017, there were 17 publications by 11 experts: Ingrid Moerman, Elisa Bertino, Bhaskar Krishnamachari, Walter Lang, Tarek F. Abdelzaher, H. T. Kung, Kay Römer, Alcherio Martinoli, Thiemo Voigt, Lothar Thiele, Gian Pietro Picco

59 out of the 59 experts published at this conference in 1 or more years
19 out of the 59 experts published at this conference in 2 or more years
10 out of the 59 experts published at this conference in 3 or more years
4 out of the 59 experts published at this conference in 4 or more years
3 out of the 59 experts published at this conference in 5 or more years
2 out of the 59 experts published at this conference in 6 or more years
1 out of the 59 experts published at this conference in 9 or more years

2. ACM SenSys

This conference was published at 198 times by 38 of 59 experts in the last 10 years.

The experts that publish at this conference are: Neil M. White(2), Carlo Ghezzi(2), John A. Stankovic(22), Andreas Terzis(10), Philip Levis(17), Adam Dunkels(11), Thiemo Voigt(11), Mark Horowitz(1), Guoliang Xing(3), Martin Vetterli(1), Chenyang Lu(4), Kurt Rothermel(1), Sándor P. Fekete(1), Prabal Dutta(37), Ingrid Moerman(1), Suman Nath(1), Ákos Lédeczi(5), Cecilia Mascolo(7), Rajesh K. Gupta(3), Leonidas J. Guibas(2), Elisa Bertino(3), Bhaskar Krishnamachari(2), Krithi Ramamritham(5), Andrew T. Campbell(5), Lothar Thiele(15), Roger Wattenhofer(6), Jon Crowcroft(1), Karl Henrik Johansson(4), Gian Pietro Picco(5), Anish Arora(3), Ralf Steinmetz(1), Piet Demeester(1), Tarek F. Abdelzaher(8), Kay Römer(4), Jie Liu(3), Michele Zorzi(1), Peter I. Corke(3), Luca Benini(3)

In 2007, there were 15 publications by 12 experts: John A. Stankovic, Philip Levis, Chenyang Lu, Kurt Rothermel, Tarek F. Abdelzaher, Andrew T. Campbell, Michele Zorzi, Adam Dunkels, Peter I. Corke, Prabal Dutta, Ákos Lédeczi, Gian Pietro Picco

In 2008, there were 23 publications by 12 experts: John A. Stankovic, Martin Vetterli, Philip Levis, Chenyang Lu, Andreas Terzis,