



## 2018 IEEE 1<sup>st</sup> 5G World Forum (5GWF'18)

Theme: 5G Vision

July 9-11, 2018, Santa Clara, CA, USA

Organized by IEEE 5G Initiative and IEEE Santa Clara Chapter

### Call for Papers and Proposals

The 2018 IEEE 1<sup>st</sup> 5G World Forum (5GWF'18) in Santa Clara, California, seeks contributions on how to nurture and cultivate 5G technologies and applications for the benefit of society.

5G systems should unveil a novel mobile network architecture that not only improves physical data rate, but also creates a new ecosystem allowing the deployment of novel services and applications. A key target is to build a novel network architecture that should support not only classical mobile broadband applications and services but also vertical industry (e.g. Intelligent Transport, Industrial IoTs, eHealth, etc.) and other IoT-based services.

This conference aims to bring researchers from industry, academia and research to exchange their vision as well as their achieved advances towards 5G, and encourage innovative cross-domain studies, research, early deployment and large-scale pilot showcases that address the challenges of 5G.

Original, innovative and high quality papers are solicited in the following technical topics of interest, but are not limited to:

#### Technical Paper Submissions

Track 1: 5G Technologies: [EDAS link](#)

Track 2: 5G Application and Services: [EDAS link](#)

Track 3: 5G & IoT: [EDAS link](#)

Track 4: 5G Security and Privacy: [EDAS link](#)

Track 5: 5G Trials, Experimental Results and Deployment Scenarios: [EDAS link](#)

Track 6: 5G Hardware and Test / Measurements: [EDAS link](#)

Track 7: 5G Special Verticals: [EDAS link](#)

Track 8: 5G Special Topical: [EDAS link](#)

Proposals for sessions and events of general interest and relevance to 5G will be considered. These should address the Technical Community and/or provide educational or expository material or recognition of significant contributions to the advancement of 5G technologies.

Workshop and Special Session Proposal Submissions: [EDAS link](#)

Tutorial Proposal Submissions: [EDAS link](#)

Industry Forum Panel proposal submissions: [EDAS link](#)

Doctoral Symposium Paper Submissions: [EDAS link](#)

Start-ups: [EDAS link](#)

Exhibitions: [EDAS link](#)

Suggestions for speakers, panels, demonstrations, and sessions aimed at: industry technologists, practitioners, managers, and operators; policy makers, public sector administrators, operators of public infrastructure and services; and others involved in the use of 5G; addressing the conference focus Verticals and Topical Areas identified below and in the full-length CFP.

5G Special Vertical Conference Propositions: [EDAS link](#)

5G Special Topical Area Conference Propositions: [EDAS link](#)

Details of each submission are enumerated as follows:

## Technical Paper Submissions

### Track 1: 5G Technologies

<ul style="list-style-type: none"> <li>o 5G New Radio (NR) specification</li> <li>o Flexible and programmable RAN</li> <li>o Cloud-RAN, functional split</li> <li>o 5G Ultra large Cell technologies</li> <li>o 5G Small Cell Technologies</li> <li>o Network Slicing</li> <li>o Multi-service architectures</li> <li>o 5G wireless technologies</li> <li>o Cloud-based 5G mobile architectures</li> <li>o 5G Network Function Virtualization (NFV)</li> <li>o Software Defined Networking (SDN) for 5G</li> <li>o Spectrum utilization and sharing</li> <li>o Massive MIMO Communications</li> <li>o Dynamic Beamforming techniques</li> <li>o Free Space Optical</li> </ul>	<ul style="list-style-type: none"> <li>o Multicast / Broadcast in 5G</li> <li>o Convergence of RAN and Core Network</li> <li>o Novel mobility management</li> <li>o Mobile Edge Computing (MEC)</li> <li>o Multi-Connectivity/RAT</li> <li>o Resource (network, relay, cloud-computing, etc.) management techniques in 5G Wireless</li> <li>o Device-to-Device Communications and networking</li> <li>o Cognitive spectrum access</li> <li>o X-haul transport network</li> <li>o Self-backhaul / integrated access networks</li> <li>o Energy efficient network design and protocols for 5G</li> </ul>	<ul style="list-style-type: none"> <li>o QoE/QoS management over 5G</li> <li>o Dynamic QoS framework as an enabler for disruptive use cases and services</li> <li>o Network and protocol interoperability in 5G Wireless Networks</li> <li>o Heterogenous cells and communications</li> <li>o Millimeter wave communications</li> <li>o Coordinated and small-scale cell communications</li> <li>o Machine learning and adaptive techniques for 5G</li> <li>o Ultra-reliability and low-latency in 5G</li> </ul>
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### Track 2: 5G Applications and Services

<ul style="list-style-type: none"> <li>o Smart Cities, Smart Public Places</li> <li>o Smart Home, and 5G-based Building Automation</li> <li>o Smart Agriculture and Water Management</li> <li>o Cyber-physical systems, Context Awareness, Situation Awareness, Ambient Intelligence</li> <li>o Collaborative Applications and Systems</li> <li>o Service Experiences and Analysis</li> </ul>	<ul style="list-style-type: none"> <li>o Consumer Electronics, Assisted Living, Rural Services and Production</li> <li>o 5G Wireless Networks for body sensors</li> <li>o Crowd-sensing, human centric sensing</li> <li>o Big data and 5G Data Analytics</li> <li>o Internet Applications Naming and Identifiers</li> <li>o Social-aware 5G networks</li> <li>o Industry of the future, e.g., Industry 4.0</li> </ul>	<ul style="list-style-type: none"> <li>o Semantic Technologies, Collective Intelligence</li> <li>o Cognitive and Reasoning about Things and Smart Objects</li> <li>o Mobile Cloud Computing (MCC) and 5G</li> <li>o Horizontal application development for 5G</li> <li>o Design principles and best practices for 5G application development</li> </ul>
<p><b>Vertical Oriented Applications</b></p> <ul style="list-style-type: none"> <li>o Smart Cities, Smart Home</li> <li>o Smart Public Places</li> <li>o Healthcare, e-Health, Assisted Living</li> <li>o Building Management and Operation Automation</li> <li>o Environmental Monitoring</li> <li>o Connected Car, Automotive Intelligent Transport</li> </ul>	<ul style="list-style-type: none"> <li>o Aerospace and Defense</li> <li>o Smart Grid, Energy Management</li> <li>o Utilities Management and Operation</li> <li>o Consumer Electronics, Assisted Living, Rural Services</li> <li>o Mining, Oil &amp; Gas, Digital Oilfield, Electronic Oilfield</li> <li>o Agriculture, Industrial IoT, Manufacturing, Hospitality, Retailing</li> </ul>	<ul style="list-style-type: none"> <li>o Logistics, Entertainment</li> <li>o Large Event Management</li> <li>o Industrial Service Creation and Management</li> <li>o Financial Services</li> <li>o Health of Machinery</li> <li>o Highway, Rail Systems</li> <li>o Industry of the Future, e.g., Industry 4.0</li> <li>o Media &amp; Entertainment</li> </ul>

### Track 3: 5G and IoT

<ul style="list-style-type: none"> <li>o Architecture of IoT in 5G networks</li> <li>o Software defined solutions for IoT</li> <li>o Energy efficiency and energy harvesting in IoT</li> <li>o Cooperative and smart sensing techniques</li> <li>o Channel characteristics and modeling with dense and sparsely populated sensors</li> <li>o Terminal intelligence and light weight sensors</li> </ul>	<ul style="list-style-type: none"> <li>o Data collection, processing, aggregation, and communication</li> <li>o Efficient resource allocation schemes, QoS, and QoE in IoT</li> <li>o Co-existence and device interoperability of sensors with 5G networks</li> <li>o Integrated D2D communication techniques for 5G networks</li> <li>o Self-organization and self-healing of IoT networks</li> </ul>	<ul style="list-style-type: none"> <li>o Relay, multi-hop, and cooperative communication in IoT</li> <li>o Ubiquitous communication, routing protocols, and network selection in IoT</li> <li>o Machine-type communications in 5G systems</li> <li>o Emerging IoT applications in 5G networks</li> <li>o Security issues and solutions for IoT in 5G networks</li> </ul>
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	<ul style="list-style-type: none"> <li>o Data processing and anomaly detection for IoT networks</li> <li>o Cross-layer design and optimization in IoT</li> </ul>	<ul style="list-style-type: none"> <li>o Sensor deployment, placement, control and management issues</li> <li>o Experimental results, prototypes and testbeds using sensors for 5G technologies</li> </ul>
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#### Track 4: 5G Security and Privacy

<ul style="list-style-type: none"> <li>o 5G Privacy and Security Concerns</li> <li>o Identification and Authentication Issues</li> <li>o Intrusion Detection in 5G</li> <li>o Cryptography, Key Management, Authentication and Authorization for 5G</li> </ul>	<ul style="list-style-type: none"> <li>o Cross-layer Attacks in 5G</li> <li>o Security with QoS Optimization in 5G</li> <li>o Privacy based Channel Access in 5G</li> </ul>	<ul style="list-style-type: none"> <li>o 5G Forensic Science</li> <li>o Big Data and Information Integrity in 5G</li> <li>o Communication Security in 5G</li> <li>o Security Standards in 5G</li> </ul>
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#### Track 5: 5G Experimental Results and Deployment Scenarios

<p><b>IoT Experimental Scenarios</b></p> <ul style="list-style-type: none"> <li>o Closing the Gap between Research and Implementation</li> <li>o Experimental prototypes, Test-Bed and Field Trial Experiences</li> <li>o Multi-Objective 5G System Modeling and Analysis—Performance, Energy, Reliability, Robustness</li> </ul>	<ul style="list-style-type: none"> <li>o 5G Interconnections Analysis—QoS, Scalability, Performance, Interference</li> <li>o Real case deployment scenarios and results</li> <li>o 5G deployment at Government and ISPs</li> </ul>	<ul style="list-style-type: none"> <li>o 5G deployment on agriculture, retails, smart cities, etc.</li> <li>o Gap Analysis for real deployments</li> <li>o 5G and Future Internet architectures</li> <li>o Standardization and Regulation</li> </ul>
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#### Track 6: 5G Hardware and Test / Measurements

<ul style="list-style-type: none"> <li>o Massive MIMO, MU-MIMO, Multi-RAT system architectures</li> <li>o Reconfigurable and switching wireless network topologies</li> <li>o RF beamforming, digital beamforming and hybrid beamforming architectures</li> <li>o Beam steering and phased arrays</li> <li>o Antenna system architectures</li> <li>o 5G Radio designs</li> <li>o RFIC and CMOS technologies and architectures for 5G</li> <li>o RF, PA, PLL, Source, phase shifting, ADC/DAC/Modem blocks</li> </ul>	<ul style="list-style-type: none"> <li>o Full-Duplex and STAR architectures and evaluation methods</li> <li>o RF blockers and interference cancelers</li> <li>o Test and measurement over entire 5G ecosystem.</li> <li>o Multi-standard coverage and measurement approaches</li> <li>o Antennas and Massive MIMO OTA tests</li> <li>o Array timing and synchronization</li> </ul>	<ul style="list-style-type: none"> <li>o Channel measurements and modeling</li> <li>o Radio measurements at microwave and mm-waves</li> <li>o Signal characterization</li> <li>o 5G device/component level testing; mmWave Material, transistor and nonlinear device measurements</li> </ul>
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#### Track 7: 5G Special Verticals

<ul style="list-style-type: none"> <li>o Tactile Internet</li> <li>o Smart factories and Industry 4.0</li> <li>o Automotive, Intelligent Transport</li> </ul>	<ul style="list-style-type: none"> <li>o Industrial 5G Service Creation and Management Aspects</li> <li>o Smart Grid, Energy Management</li> <li>o 5G-based Supply Chains &amp; Logistics</li> </ul>	<ul style="list-style-type: none"> <li>o 5G Wireless Networks for the Industrial Internet of Things</li> <li>o E-Health and mobile health over 5G networks</li> </ul>
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#### Track 8: 5G Special Topicals

<p><b>Policy &amp; Regulation</b></p> <ul style="list-style-type: none"> <li>o Policy and Regulations</li> <li>o 5G Spectrum</li> <li>o Best Practices, Standards, and Open Source</li> <li>o Technical enforcement of legal 5G regulations, service level agreements, mutual legal assistance requests, etc..</li> </ul>	<ul style="list-style-type: none"> <li>o Privacy and security in 5G Internet of Things: data sharing, threats, liability, audit and compliance concerns for cloud-supported 5G, fog and edge computing</li> </ul>	<p><b>5G Standardization</b></p> <ul style="list-style-type: none"> <li>o ITU-T IMT2020 Spectrum standardisation</li> <li>o IEEE 5G standardization</li> <li>o 3GPP 5G standardization</li> <li>o ITU-T 5G standardization</li> </ul>
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#### A. Technical Paper Submissions

The 1<sup>st</sup> IEEE 5G World Forum (WF-5G 2018) solicits technical paper submissions.

- **Full papers** describing original research. Suggested size is four pages; papers up to six pages will be accepted. Extended versions of selected papers may be considered for publication in alternative IEEE publications.

Papers will be fully peer reviewed. If the paper is accepted and presented, it will be included in the conference proceedings and be submitted to the Xplore Digital Library. IEEE takes the protection of intellectual property very seriously. All submissions will be screened for plagiarism using Cross Check. By submitting your work you agree to allow IEEE to screen your work for plagiarism: <http://www.crossref.org/crosscheck/index.html>

### How to submit

All papers must be submitted in PDF and US letter format. Submitted papers must conform to the IEEE formatting guidelines as specified in these templates ([Word Template](#), [LaTeX package](#)). All papers must be submitted electronically: <http://www.ieee-wf-5g.org/>

### Important Dates for Paper Submissions

Technical paper abstract submission: **August 31, 2017**

Technical paper submission: **October 15, 2017**

Acceptance Notification: **January 15, 2018**

Camera-ready submission: **February 28, 2018**

Papers must be submitted electronically - see above for EDAS links for each track

### Contacts for Technical Papers

Adlen Ksentini [adlen.ksentini@eurecom.fr](mailto:adlen.ksentini@eurecom.fr) , Eurecom, France

Athul Prasad [athul.prasad@nokia-bell-labs.com](mailto:athul.prasad@nokia-bell-labs.com) , NOKIA Bell Labs, Finland

## B. Workshop and Special Session Proposal Submissions

IEEE WF-5G 2018 will be hosting a series of workshops and special sessions. Workshops and special sessions feature topics relevant to the 5G community on the latest research, engineering, standards and business issues. These events typically include a mix of regular and invited presentations including regular papers, invited papers, as well as invited presentations and panels to facilitate highly interactive workshops and special sessions.

### How to submit

Each proposal must include the following and should be maximum five pages:

- Workshop title
- Length of the workshop (half/full day)
- Names, main contact, and a short bio (200 words) of the workshop organizers
- Brief description of the workshop including abstract, scope and timeliness.
- Planned format of the workshop including projected number of referred papers, hot topic sessions, keynotes, and panel discussions.
- Potential participants including program committee members and invited speakers.
- Brief description of publicity plan
- Prior history the workshop (if any)
- Draft call for papers
- Any other relevant information

Accepted events must follow IEEE academic best practices regarding peer reviews and paper publication. Accepted and presented papers will be added to IEEE Xplore and the conference proceedings. Workshop and special session proposal must be clearly marked as such and submitted electronically: [EDAS link](#)

### Important dates for Workshops and Special Session proposal submissions

Workshop and special session proposal submissions: **August 31, 2017**

Proposal acceptance notification: **September 31, 2017**

Workshop website published: **October 30, 2017**

Workshop or special session paper submission: **November 31, 2017**

Paper acceptance notification: **December 31, 2017**

Camera-ready submission: **January 31, 2018**

### Contact for Special Sessions and Workshops

**Workshops:** Bala Krishna Maddali [m.bala.krishna@ieee.org](mailto:m.bala.krishna@ieee.org) and Imran Shafique Ansari [ansarimran@ieee.org](mailto:ansarimran@ieee.org)

**Special Sessions:** Alireza Ghasempour [alireza\\_ghasempour@yahoo.com](mailto:alireza_ghasempour@yahoo.com)

## C. Tutorial Proposal Submissions

Tutorial proposals should contain an abstract, scope, intended audience, objectives, prior history, outline, biographical sketch of presenter(s), and any other information that may assist in making informed decisions.

## How to submit

Tutorials should complement the regular program with new and emerging topics of interest. Proposals must be in the form of a single PDF file not to exceed four pages.

## Important dates for Tutorial proposal submissions

Tutorial proposal submissions: **August 31, 2017**

Proposal acceptance notification: **September 15, 2017**

**Contact for Tutorials:** Bala Krishna Maddali [m.bala.krishna@ieee.org](mailto:m.bala.krishna@ieee.org)

## D. 5G Focus - Vertical Areas Propositions

Proposals in the Vertical and Topical Areas should address: suggestions for speakers, panel discussions, roundtables, presentation sessions on focus topics, demonstrations of novel or important technologies, and events with other formats that may be effective for furthering the involvement and participation of the attendees.

- Tactile Internet - Meryem Simsek, University of Berkeley [Meryem.Simsek@tu-dresden.de](mailto:Meryem.Simsek@tu-dresden.de)
- Automotive, Intelligent Transport - Javier Gozalvez [j.gozalvez@umh.es](mailto:j.gozalvez@umh.es)
- 5G Wireless Networks for the Industrial Internet of Things - Periklis Chatzimisios [peris@it.teithe.gr](mailto:peris@it.teithe.gr)
- E-Health and mobile health over 5G networks - Christoph Thuemmler, [C.Thuemmler@napier.ac.uk](mailto:C.Thuemmler@napier.ac.uk)
- Media & Entertainment - Athul Prasad, [athul.prasad@nokia-bell-labs.com](mailto:athul.prasad@nokia-bell-labs.com), Belkacem Mouhouche, [B.Mouhouche@samsung.com](mailto:B.Mouhouche@samsung.com), David Gomez Barquero, [dagobar@iteam.upv.es](mailto:dagobar@iteam.upv.es)
- 5G Security and Privacy – Rajendra Hegadi, [rajendrahegadi@iiitdwd.ac.in](mailto:rajendrahegadi@iiitdwd.ac.in)
- Smart factories and Industry 4.0
- Industrial 5G Service Creation and Management Aspects
- Smart Grid, Energy Management
- 5G-based Supply Chains & Logistics

## E. 5G Focus - Topical Areas Propositions

- Policy and Regulations
- 5G Standardisation
- 5G Spectrum
- Best Practices, Standards, and Open Source

5G Focus proposal submissions: **September 15, 2017**

Proposal acceptance notification: **October 15, 2017**

Proposals must be submitted electronically: [EDAS link](#)

## Contacts for IoT Conference Vertical & Topical Areas

5G Focus: Vertical Areas Propositions – see email address per topic above

5G Focus: Topical Areas Propositions – see email address per topic above

## F. Industry Forum & Panel Sessions proposal submissions

WF-5G 2018 will be hosting Industry Forum & Panel Sessions. Panel presentation materials will not be published in the conference proceedings but will be available on the conference web site. Industrial Forum Panel proposal should contain an abstract, scope, intended audience, objectives, prior history, an outline, the biographical sketch of presenters, and any other information that may assist in making decisions.

## Important dates for Industry Forum and Panel Sessions proposal submissions

Industry Forum Panel proposal submissions: **October 31 15, 2017**

Proposal acceptance notification: **November 31, 2017**

Proposals must be submitted electronically: [EDAS link](#)

## Contacts for Industry Forum & Panel Sessions:

Abir Chermiti, [abir.chermiti.tn@ieee.org](mailto:abir.chermiti.tn@ieee.org)

Ajay Rajkumar, [ajay.rajkumar@nokia.com](mailto:ajay.rajkumar@nokia.com)

Anand Prasad, [anand@bq.jp.nec.com](mailto:anand@bq.jp.nec.com)

## G. Doctoral Symposium Paper Submissions

The goal of the WF-5G 2018 Doctoral Symposium is to provide a supportive setting in which PhD students can present and receive feedback on their work. Students at different stages in their research will be able to articulate and discuss their problem statement, goals, methods, and results. The symposium also aims to provide students with useful guidance on various aspects of their research from established researchers and the other student attendees. Finally, the symposium seeks to motivate students in the development of their scientific curiosity and facilitate their networking within the research community. The PhD symposium also aims to facilitate networking among researcher in the WF-5G community and help students establish contacts for entering the job market. PhD Symposium attendance is open to all WF-5G registrants.

### How to Submit

Paper on PhD research project (max. 2-4 pages) formatted as noted above. A letter of recommendation from the supervisor attached to the proposal submission. Full contact information including affiliation, address, e-mail and phone. Papers must be submitted electronically: [EDAS link](#)

### Important dates for Doctoral Symposium paper submissions

Paper submission: **October 31, 2017**

Acceptance notification: **November 30, 2017**

Camera-ready submission: **January 31, 2018**

### Contact for Doctoral Symposium

Meryem Simsek, University of Berkeley, [Meryem.Simsek@tu-dresden.de](mailto:Meryem.Simsek@tu-dresden.de)

## H. Start-ups

This initiative is meant to actively promote the engagement of start-ups and new businesses in pioneering innovation in 5G. The 5G challenges are pretty much known by now such as latency and reliability, something of a holy grail. Shaving latency down to 1ms for a host of applications from virtual reality games to tele-medicine will be another one of the toughest challenges of 5G. Start-ups are invited to showcase their innovation in this track.

[EDAS link](#)

### Contact:

Sudhir Dixit [sudhir.dixit@gmail.com](mailto:sudhir.dixit@gmail.com)  
Douglas Coates [douglas.f.coates@ieee.org](mailto:douglas.f.coates@ieee.org)  
Jay Merja [jaymerja@ieee.org](mailto:jaymerja@ieee.org)

## I. Exhibitions

Showcase your company to the largest technical, professional association in the world. If your company manufactures or supplies products and services related to 5G components, subsystems, and systems (including hardware, software, and middleware), you should be an exhibitor at IEEE 5G World Forum.

[EDAS link](#)

**Contact:** Alireza Ghasempour, [alireza\\_ghasempour@yahoo.com](mailto:alireza_ghasempour@yahoo.com)

### Financial Co-Sponsors of WF-5G 2018

IEEE Communications Society  
IEEE Computer Society  
IEEE Consumer Electronics Society  
IEEE Reliability Society  
IEEE Sensors Council  
IEEE Signal Processing Society  
IEEE Society on Social Implications of Technology  
IEEE Council on Electric Design Automation  
IEEE Vehicular Technology Society

## CALL FOR PAPERS AND PROPOSALS

2018 IEEE 1<sup>st</sup> 5G World Forum (5GWF'18)

9-11 July 2018 — Santa Clara, CA

<http://www.ieee-wf-5g.org>