

40th Meeting of the WWRF Closing Session

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Wireless World Research Forum Meeting 40
31 May - 1 June, 2018 in Durban, South Africa

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- Approved development of new WGs on:
 - 5G for water industry
 - 5G for rail networks
- White paper on Wireless AI to be sent for approval to SB
- Workshop at NGMN meeting in Vancouver in November
- Set up organizing committee for WWRF41

Current WWRF working groups and VIPs

- WG A/B – User Needs and Requirements
- WG C – New Directions in Communications Architectures and Technologies
- WG D – Radio Systems
- WG HF – High Frequency Radio Systems
- VIP CV – Connected Vehicle
- VIP EMW – E/Mhealth and wearables



WWRF40 WGA/ B Report

Knud Erik Skouby



3 papers were accepted for presentation

- *Phillip Nyoni & M.Velempini*, Third Party Content and User Security on Facebook (no presentation; authors not present)
- *Zaid Du Toit, F. Mekuria*, Enabling Relevant Use Cases in 5G for Emerging Economies
- *Joseph Kwame Adjei, Peter Ebo Tobbin, Knud Erik Skouby*
- Exploring the Factors That Affect Personal Information Disclosure on Social Media

Update of Outlook presented : *Millennial users in a 5G context*

Ideas for WP on *Security in 5G Verticals* and for VIP on *5G Business Models* presented

CfP for vol II of Developing Countries book presented

Interested in contributing to the three publications mentioned, pls contact: skouby@cmi.aau.dk

- WP: ‘Security ion 5G Verticals’
 - Planned draft at WWRF40
 - Contributions welcome
- VIP on ‘5G Business Models’ launch session at WWRF40
 - Ideas welcome
- Mobile in Developing Countries - a handbook, vol 2
 - Contributions welcome
 - Deadline for final chapters 1, November 2018
- HICSS, January 8-11 2019, Hawaii
 - WWRF workshop ‘ User controlled privacy in Next generation mobile (5G)’
 - Minitrack: *Privacy and Economics*



WWRF39 WGC Report

Sudhir Dixit,
WGC Chair



Working Group C (Chair – Sudhir Dixit)

- Seven Contributions – One withdrawn and one no show
- Papers on new trends in SDN, OpenFlow, Fog computing, QoS
- Good representation of women authors and presenters
- ToC on *Network Slicing for 5G and Beyond Systems* discussed
 - Lots of interest in contributing from Africa, especially on bridging the digital divide through 5G
 - Timeline to complete the white paper in 2019
- Proposals welcomed on new ideas to start work on new white papers



WGD, WG-HF and WG-EVAL

WWRF40 mtg report

Angeliki Alexiou

WGD/HF/EVAL Chair

1 June 2018



WG D presentations on “5G Systems and beyond”

- **Spectrum Sharing for 5G & Broadband for All**, Gcina Dludla, Luzango Mfupe, Fisseha Mekuria, CSIR, South Africa"
- **Dismantling Barriers to Hyperdense Network Deployments for 5G: Study Perspectives from the Global5G.org Project**, Edward Mutafungwa, Aalto University, Finland
- **Machine-Learning-Based Base Station Association for Resource Allocation in 5G Heterogeneous Networks**, M.M. Sande, University of Pretoria , South Africa
- **Recent work on Massive MIMO**, Seshadri Mohan, University of Arkansas at Little Rock, US

WG HF presentations on “mmWAVE”

- **ITRI's recent research work on Radio Communication Technologies for 5G and beyond**, Ching-Tarng Hsieh, ITRI, Taiwan
- **New PHY/MAC techniques in the upcoming IEEE 802.11ay mmWave Wi-Fi standard** , Alexander Maltsev, Intel, US



WG ITU EVAL

- **WWRF IMT-2020 Eval Group and Overview of ITU IMT-2020 Evaluation**, Angeliki Alexiou, University of Piraeus, Greece
- **ITRI's ITU Eval Group vision/plans**, Ching-Tarng Hsieh, ITRI, Taiwan
- Discussion on next steps
- Action Item agreed: email/Call for Contributors to be send to interested parties asking them to state their **availability/expertise/simulation and analytical tools/resources**



EMW VIP wrap-up

Christos Politis
VIP EMW Chair



CV VIP wrap up

Sesh Mohan
VIP CV Chair



Summary VIP CV Activities

- During Dec. 5-6, Sesh Mohan attended ITU/TIA meeting on CITS in Arlington, Virginia, represented WWRF and presented VIP CC charter, a summary of papers on CC at WWRF'39 in Barcelona, and discussed opportunities for collaboration
- During the 5G Huddle in Durban, Eckart Kruger presented the paper titled "5G and Mobility," which is relevant to connected cars. He concluded connected cars will "significantly improve traffic flows, reduce accidents and enhance safety, relieve the pressure on drivers and the environment, generate added value and create new jobs."
- During VIP CC Session, the paper titled "Advanced Spectrum Management for Next Generation Vehicular Networks: An Artificial Intelligence Approach" was presented. It concluded that "AI/Game-Theoretic-based mechanisms are expected to improve reliability of wireless communication among autonomous vehicles."



Summary VIP CV Activities

- Draft of a white paper on VIP CC was presented.
- The white paper is under development and the Chair solicited contributors to the paper.
- A proposal is under development for organizing a feature topic in one the IEEE Magazines such as IEEE Vehicular Technology Magazine, IEEE Communications Magazine, or IEEE Wireless Magazine.



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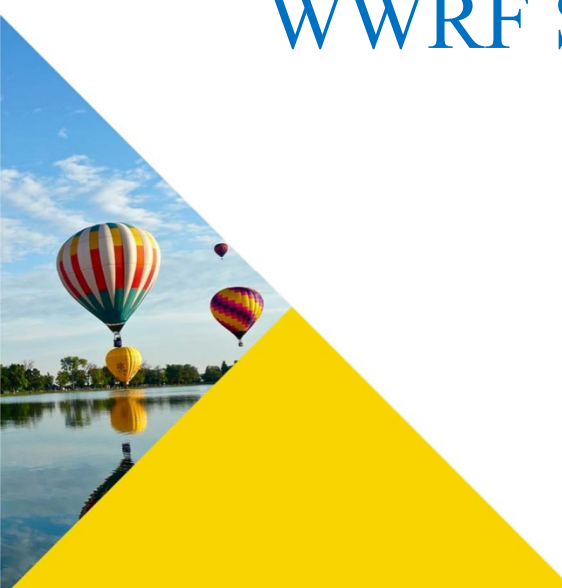
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- Deadline end of this week!
- Submit full papers to WG chair (or me)
- WG chairs will nominate suitable papers for review



WWRF meetings

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- WWRF41, Herning, Denmark, October 2018
- WWRF42 and 6th Huddle, tbc, early 2019
- WWRF43, Thessaloniki, Greece, late 2019



Meeting presentations

- <http://www.wwrf40.ch/presentations-wwrf40.html>
- Username: wwrf-40
- Password: 37durBan18/



Thank You and Goodbye!

