

IEEE 5G Summit Pretoria “5G for Future Africa”

Monday, May 6, 2019
Future Africa Campus, Pretoria, South Africa
<http://www.5gsummit.org/pretoria/>

Summary of South Africa Joint-Chapter

- **One the most Active Chapters in 2018:**
- 14 events attended by over 210 people
- Acknowledged for significant increase in Young Professionals (YP) members in the Communications Society (ComSoc).
- **Chapter has about 100 members presently.**
- **There are also UP, WITS and UCT IEEE Student Branch Chapters**
- **Chapter web page: <http://southafrica.chapters.comsoc.org/>**

Chair: Prof. Reza Malekian (University of Pretoria)

Vice-chair: Prof. Sunil Maharaj (University of Pretoria)

Treasurer: Prof. Jaco Versfeld (Stellenbosch University)

Secretary: Dr. Filip Paluncic (University of Pretoria)

Industry Outreach representative: Lakshmi Nair (Elenjical solutions)

South Africa Chapter

IEEE 5G Summit: Distinguished Speakers



Prof. Ashutosh Dutta

ComSoc Director Industry Outreach,
Co-Chair IEEE Future Networks, JHU/APL



Ms. Karina Maksimiuk

Project Manager, Agri-EPI Centre Ltd.,
UK



Dr. Stefano Galli

Huawei, USA & VP of Industry
and Standards, ComSoc



Dr. Piotr Osuch

Co-founder/CTO, Multifractal
Semiconductors

South Africa Chapter

IEEE 5G Summit: Distinguished Speakers



Mr. George Debbo

President of SAIEE and CEO,
GD Telecom



Mr. Giovanni Chiarelli

CTIO, MTN, South Africa



Dr. Fisseha Mekuria

Chief Research Scientist, CSIR



Dr. Ivan Seskar

Associate Director WINLAB,
Rutgers, USA

South Africa Chapter

IEEE 5G Summit: Distinguished Speakers



Mr. Kobus Muller

Senior End-to-End Network Architect,
Nokia, South Africa

South Africa Chapter

IEEE 5G Summit: Organizing Committee



Prof. Sunil Maharaj
General Co-Chair



Prof. Reza Malekian
General Co-Chair
Joict-Chapter Chair: Signal Processing
and Communications Societies



Prof. Periklis Chatzimisios
Program Co-Chair
ATEI Thessaloniki, Greece &
Bournemouth University, UK



Dr. Albert Lysko
Sponsorship Chair
Principal Researcher, CSIR

South Africa Chapter

IEEE 5G Summit: Organizing Committee



Adam Greenberg
Local Arrangements
ComSoc USA
Local Arrangements



Shinett Boggan
Local Arrangements
ComSoc USA

IEEE 5G Summit, Pretoria- Program

08:00 – 09:00 Registration

09:00 – 09:10 Introduction - Prof. Sunil Maharaj, Dean, EBIT Faculty, UP

09:10 – 09:30 Welcome remarks and Introduction of IEEE Future Networks Initiative - Prof. Ashutosh Dutta, ComSoc Director Industry Outreach, Co-Chair IEEE Future Networks, JHU/APL

09:30 – 10:00 5G – Enabler of Economic and Social Inclusivity in South Africa - George Debbo, President of SAIEE and CEO, GD Telecom

10:00 – 10:30 Opto-Electronic Base Stations for 5G and Beyond - Dr. Stefano Galli, Huawei, USA & VP of Industry and Standards, ComSoc

10:30 – 11:00 Break for refreshments

11:00 – 11:30 MTN's Road to 5G - Mr. Giovanni Chiarelli, CTIO, MTN, South Africa

11:30 – 12:00 An Open Programmable City Scale Testbed for Evaluation of Edge-Cloud Enhanced Advanced Wireless Systems - Ivan Seskar, Associate Director WINLAB, Rutgers, USA

12:00 – 12:30 Unlocking the mmWave spectrum and enabling the 4th industrial revolution 5G - from small cells to massive MIMO and the IoT - Dr. Piotr Osuch, Co-founder/CTO, Multifractal Semiconductors

12:30 – 13:30 Lunch

13:30 – 14:00 Success Factors for 5G and the 4th IR in Emerging Economies - Dr. Fisseha Mekuria, Chief Research Scientist, CSIR

14:00 – 14:30 5G architecture enable the human possibilities of smart cities by interconnecting systems, processes, activities and citizens - Mr. Kobus Muller, Senior End-to-End Network Architect, Nokia, South Africa

14:30 – 15:00 Break for refreshments

15:00 – 15:30 5G Testbed for 5G RuralFirst in UK - Ms. Karina Maksimiuk, Project Manager, Agri-EPI Centre Ltd., UK

15:30 – 16:00 Security for SDN/NFV and 5G Networks - Opportunities and Challenges - Prof. Ashutosh Dutta, ComSoc Director Industry Outreach, Co-Chair IEEE Future Networks, JHU/APL

16:00 – 16:30 Fireside Chat: Reflections for Future Networks Initiative