

# 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