

# Africa Area Report

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# Goals of IEEE Africa Area

- ▶ To provide a centralized coordinating unit for IEEE activities in Africa
- ▶ To support and provide guidance to the members on how to use IEEE's tools, products and network to enhance the engineer in Africa
- ▶ To grow IEEE's presence in Africa to benefit all volunteers
- ▶ To address the specific opportunities and challenges in Africa

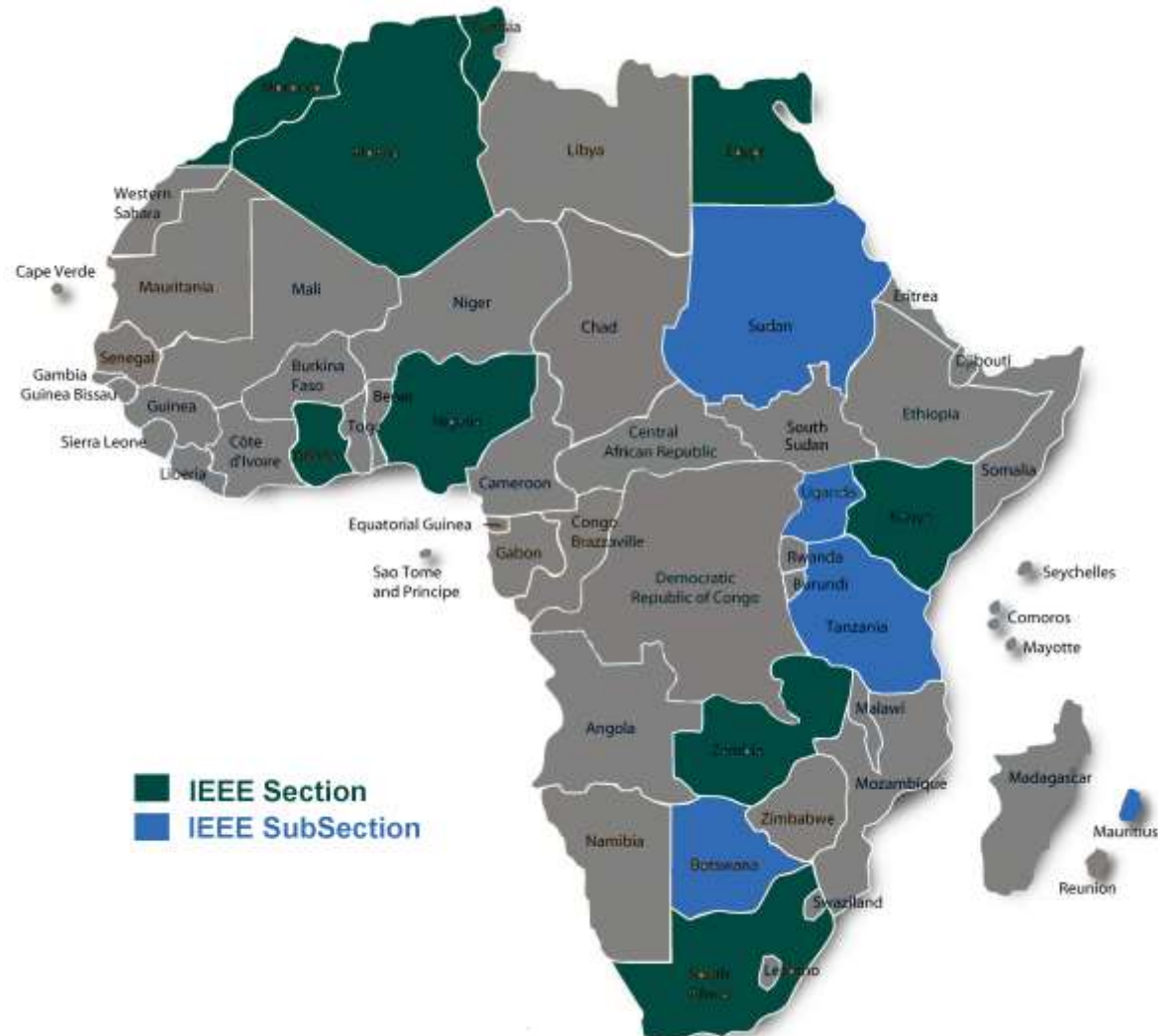
# Committee

IEEE Africa Area Chair was appointed by the IEEE Region 8 Director and supported by a small committee

- ▶ Gloria Chukwudebe – Nigeria- Chair
- ▶ Shaun Kaplan –South Africa
- ▶ Habib M. Kammoun - Tunisa
- ▶ Kabwe Bellington- Zambia

# Africa Area

- ▶ 9 Sections: Algeria, Egypt, Ghana, Nigeria, Tunisia, Kenya, Morocco, South Africa, Zambia
- ▶ 5 Sub-Sections: Alexandria, Botswana, Sudan, Tanzania, Uganda
- ▶ About 6,000 active members across the continent's 54 countries



# Last main activities

- ▶ IEEE Virtual Events Program in Africa: Big Data 2017 held in May, was a great success, with almost 500 attendees across in 6 countries. (Nigeria, Ghana, Rwanda, Uganda and Zambia)
- ▶ IEEE President, Karen Bartleson visited Kenya in May 2017
- ▶ Tunisia section received the 2017 IEEE MGA Outstanding large section award
- ▶ IEEE President, Karen Bartleson, and Magdalena Salazar Palma, IEEE Region 8 Director-Elect participated in IEEE Middle East Student and Young Professional CME-SYP Congress in Tunisia in August
- ▶ 2017 IEEE PES Power Africa Conference held in Ghana, 27 – 30 June, 2017
- ▶ IEEE Nigeria Section organized a Maker Event 2017, June 2017

# Upcoming Conferences/Congresses

- ▶ IEEE African Student Young Professionals Congress (ASPYC) 8th - 10th Sept. 2017
- ▶ IEEE AFRICON 2017, Cape Town, South Africa, 18 - 20 Sept 2017
- ▶ IEEE East Africa Students and Young Professionals Congress (EASYP), Kenya, 5-8 October 2017
- ▶ IEEE Virtual Events Program in Africa - Smart Grid 2017 planned for October, 2017
- ▶ IEEE NIGERCON 2017 Conference, Nigeria, November 7-19, 2017

# Grants/Financial Support

- ▶ IEEE Ad Hoc Committee on Activities in Africa (AHCAA) has established Travel scholarship grant for the following African countries for student and members :
  - Ghana
  - Kenya
  - Rwanda
  - Uganda
  - Zambia

# Challenges

- ▶ No finances to support **Africa Area Committee** activities
- ▶ There are few active volunteers who are willing to work at Section level. Some others who are willing to work have not been able to renew due to issues with foreign currency
- ▶ Access to Internet and Power are still issues for sub-Saharan Africa



# Future Plans

- ▶ Introduce Competitions to improve Section vitality
- ▶ Paper Contest for African students is on-going, winners will be announced at SYP Congress in Abuja
- ▶ Introduce innovative activities to retain members and recruit new ones.
- ▶ Improve on TISP Participation
- ▶ Organize more Training Workshops on soft-skills and professional development
- ▶ Collaboration with national associations, institutions and industry, and to establish partnerships in the focus areas of the Committee.
- ▶ Help subsections to organize IEEE activities in their countries
- ▶ Have more discussions on Africa Council

# The True Size of Africa

A small contribution in the fight against rampant innumeracy, by Kai Krause

Graphic layout for visualization only (some countries are cut and rotated)  
But the conclusions are very accurate: refer to table below for exact data

COUNTRY	AREA x 1000 km²
China	9.597
USA	9.629
India	3.287
Mexico	1.964
Peru	1.285
France	633
Spain	506
Papua New Guinea	462
Sweden	441
Japan	378
Germany	357
Norway	324
Italy	301
New Zealand	270
United Kingdom	243
Nepal	147
Bangladesh	144
Greece	132
<b>TOTAL</b>	<b>30.102</b>
<b>AFRICA</b>	<b>30.221</b>

In addition to the well known social issues of *illiteracy* and *innumeracy*, there also should be such a concept as "*inmappancy*", meaning *insufficient geographical knowledge*.

A survey with random American schoolkids let them guess the population and land area of their country. Not entirely unexpected, but still rather unsettling, the majority chose "1-2 billion" and "largest in the world", respectively.

Even with Asian and European college students, geographical estimates were often off by factors of 2-3. This is partly due to the highly distorted nature of the predominantly used mapping projections (such as *Mercator*).

A particularly extreme example is the worldwide misjudgement of the true size of *Africa*. This single image tries to embody the massive scale, which is larger than the *USA*, *China*, *India*, *Japan* and *all of Europe*..... combined!

## Top 100 Countries

Area in square kilometers, Percentage of World Total  
Sources: Britannica, Wikipedia, Anvarat 2010

	AREA	%
Russia	17.098.242	17,39
Canada	9.984.670	9,79
China	9.596.961	9,40
United States	9.629.291	9,40
Brazil	8.514.877	8,30
Australia	7.682.324	7,50
India	3.287.243	3,20
Argentina	2.766.430	2,70
Kazakhstan	2.724.900	2,60
Sudan	2.505.813	2,40
Algeria	2.381.741	2,30
Congo	2.344.858	2,30
Greenland	2.166.086	2,10
Saudi Arabia	2.149.000	2,10
Mexico	1.964.375	1,90
Indonesia	1.860.360	1,80
Libya	1.759.540	1,70
Iran	1.628.240	1,50
Mongolia	1.564.110	1,50
Peru	1.285.210	1,20
Chad	1.284.000	1,20
Niger	1.267.000	1,20
Angola	1.246.700	1,20
Mali	1.240.192	1,20
South Africa	1.221.037	1,20
Colombia	1.141.748	1,10
Ethiopia	1.104.300	1,10
Burkina Faso	1.096.911	1,00
Mauritania	1.025.320	1,00
Egypt	1.002.000	0,90
Tanzania	945.087	0,90
Nigeria	923.768	0,90
Venezuela	912.500	0,90
Honduras	83.418	0,08
Madagascar	591.840	0,58
Pakistan	796.095	0,78
Turkey	783.562	0,77
Chile	756.102	0,74
Zambia	752.462	0,74
Myanmar	676.678	0,66
Afghanistan	652.000	0,64
Somalia	637.667	0,62
France	630.204	0,61
C. African Rep.	622.994	0,61
Ukraine	603.500	0,59
Malagasy	587.041	0,58
Botswana	582.000	0,57
Kenya	580.367	0,57
Yemen	527.968	0,51
Thailand	513.120	0,50
Sri Lanka	65.610	0,06
Tunisia	163.267	0,16
Cameroon	475.942	0,46
Papua New Guinea	462.000	0,45
Uzbekistan	447.400	0,44
Morocco	446.300	0,44
Sweden	441.270	0,43
Iraq	438.217	0,43
Paraguay	406.752	0,40
Zimbabwe	390.757	0,38
Japan	377.930	0,37
Germany	357.114	0,35
Rep. of Congo	342.000	0,33
Poland	312.685	0,31
Vietnam	331.212	0,32
Malaysia	330.800	0,32
Norway	323.860	0,31
Cote d'Ivoire	322.460	0,31
Poland	312.685	0,31
Denmark	300.500	0,29
Italy	301.338	0,29
Philippines	300.000	0,29
Burkina Faso	274.200	0,27
New Zealand	270.467	0,26
Slovenia	20.271	0,02
Western Sahara	266.000	0,26
Sierra Leone	274.300	0,26
Guinea	245.627	0,24
United Kingdom	243.000	0,24
Uganda	241.000	0,23
Ukraine	238.000	0,23
Romania	238.000	0,23
Laos	236.000	0,23
Guyana	214.000	0,21
Bahamas	207.000	0,20
Kyrgyzstan	196.561	0,19
Sri Lanka	196.000	0,19
Syria	195.180	0,19
Cameroon	181.200	0,18
Uruguay	176.215	0,17
Burkina Faso	163.000	0,16
Tanzania	162.000	0,16
Nepal	147.181	0,14
Bangladesh	140.800	0,14
Tajikistan	140.100	0,14
Greece	121.907	0,12
Nicaragua	120.270	0,12
North Korea	120.000	0,12
Malawi	118.684	0,11
Brunei	117.000	0,11
TOP 100 TOTAL		100.000.000

