

# IEEE Executive Director's Report

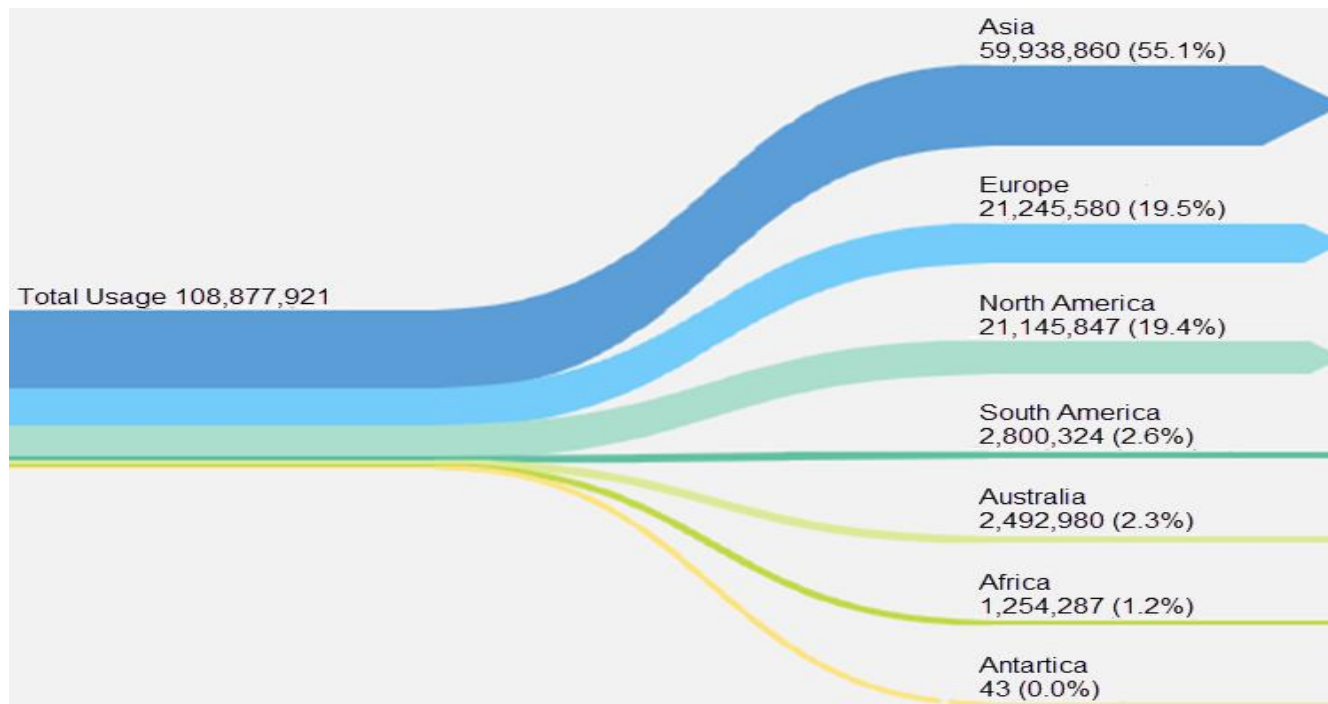
*Jim Prendergast, IEEE Executive Director  
IEEE Region 8 Meeting  
Stockholm, Sweden  
25 March 2017*

# IEEE Membership Stats

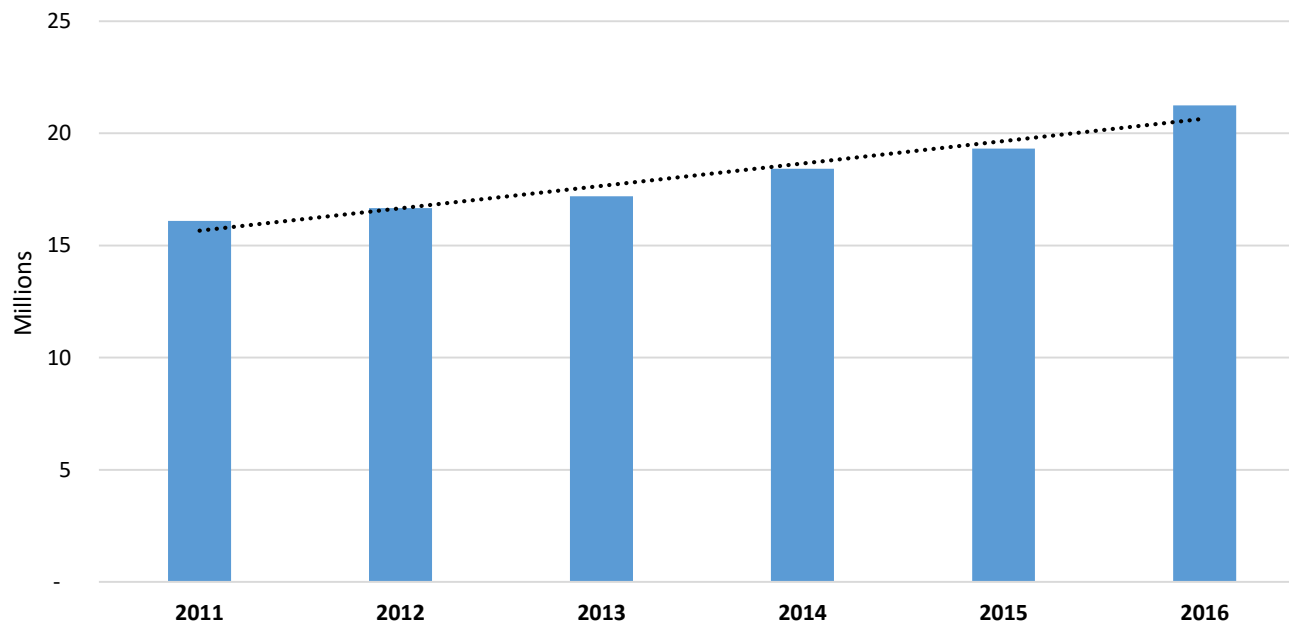
*All figures are end of year 2016*

- ▶ IEEE Total Membership: 423,566
  - Higher Grade Membership (without GSM): 306,259
  - Student Members (with GSM): 117,307
- ▶ IEEE Region 8 Membership: 76,951
  - Higher Grade Membership (without GSM): 54,454
  - Student Members (with GSM): 22,497

## Region 8 Drives over 20% of *Xplore* Usage



# IEEE Xplore Usage\* Trend for Europe



# IEEE Xplore Digital Library

## *Orders in Region 8*

- ▶ Egyptian Knowledge Bank
  - National License
  - Citizenry of Egypt
  - IEEE Journals
  - IEEE Conferences
  - 1 Jan to 31 Dec 2017
- ▶ Russian National Public Library for Science & Tech
  - 50 universities
  - IEEE/IET Electronic Library
  - 1 Jan to 31 Dec 2017



# University Partnership Program (UPP) in Region 8

*Building closer relationships with student branches and librarians*

- ▶ Visited UK universities with and without IEEE student branches in 2016
  - IEEE student group formed at the University of Sheffield
  - University of Liverpool interested
  - Sponsored EEE/EME/CES graduation event at the University of Strathclyde
- ▶ Organized event on innovation with local WiE affinity group at Northumbria University
  - IEEE student branch quickly formed; now active and growing



# Client Services in Region 8

*IEEE Xplore, Innovation Q+, and author workshops throughout the region*

- ▶ Visited Austria, Czech Rep., Germany, Hungary, Israel, Italy, Latvia, Poland, Romania, Russia, Slovakia, Spain, and Switzerland in 2016
- ▶ Sponsored R8 Student/YP Congress in Regensburg, Germany
- ▶ Led two Student/YP events in Haifa & Tel Aviv, Israel
- ▶ Two author workshops in Barcelona & Seville, Spain brought in 130 participants



# IEEE-SA to Europe-related activities

*Engagement in OECD (Organization for Economic Co-operation and Development)*

- ▶ Became member of the OECD Internet Technical Advisory Group (ITAC)
  - Brings together the counsel and expertise of technically focused organizations in a decentralized and networked approach to policy formulation for the Internet economy
- ▶ Participated in the 2016 OECD Ministerial, Cancun Mexico
  - Led “Open Standards for an Open IoT Session”
  - Participated in “New Markets and New Jobs” high-level panel
    - Chaired by Andrus Ansip, VP of the EC
  - Sponsored the Excellence Award for “Best App that Addresses Value Ethical Design” during the BIAC Connected Communities, Connected Lives Hackathon
- ▶ G20 Contribution issued under responsibility of Secretary-General of OECD
  - Wrote “Developing Standards for the Digital World” chapter of the “Key Issues for Digital Transformation in G20” report prepared for this year’s G20 Presidency (Germany)





# IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems

*Very strong European presence*

- ▶ Approximately 1/3 of IEEE Global Initiative members are from Europe
  - Chair of the Executive Committee is Raja Chatila (France; former RAS President)
  - Co-Chair is Kay Firth-Butterfield (UK)
- ▶ Two key deliverables:
  - Report on Ethically Aligned Design is out for comment by 15 May
    - [http://standards.ieee.org/develop/indconn/ec/autonomous\\_systems.html](http://standards.ieee.org/develop/indconn/ec/autonomous_systems.html)
  - New standards series established for standardization ideas coming from this group
    - Seven projects have been approved so far and more are in the pipeline
    - Six of the seven standards projects have chairs or vice-chairs from Europe



# P7000 Series of Standardization Projects

## *Working group European leaders*

- ▶ P7000 – Model Process for Addressing Ethical Concerns During System Design
  - Working Group Vice-Chair from Austria (Sarah Spiekermann)
- ▶ P7001 – Transparency of Autonomous Systems
  - Working Group Chair from UK (Alan Winfield)
- ▶ P7002 – Data Privacy Process
  - Working Group Vice-Chair from Spain (Aurelie Pols)
- ▶ P7003 – Algorithmic Bias Considerations
  - Working Group Chair from UK (Ansgar Koene); Vice-Chair from UK (Paula Boddington)
- ▶ P7004\* – Standard for Child and Student Data Governance
- ▶ P7005\* – Standard for Transparent Employer Data Governance
  - Working Group Chair from Sweden (Ulf Bengtsson)
- ▶ P7006\* – Standard for Personal Data Artificial Intelligence (AI) Agent
  - Working Group Vice-Chair from Denmark (Gry Hasselbalch)



# Global Initiative Key Events

- ▶ First face-to-face meeting held at the Hague, August 2016
- ▶ “Civil Law Rules on Robotics: Prioritizing Human Well-being in the Age of Artificial Intelligence - K4I Forum Dinner Debate in cooperation with IEEE”
  - Will be hosted in Brussels in April
  - <http://www.knowledge4innovation.eu/civil-law-rules-robotics-prioritizing-human-well-being-age-artificial-intelligence>



# IEEE Collabratec™ – Expanding Access Across Region 8

*Contributing to the 80K+ sign-ups globally*

| Select Countries | Searchable Profiles* |
|------------------|----------------------|
| U.K              | 970                  |
| Italy            | 770                  |
| Tunisia          | 640                  |
| Germany          | 640                  |
| Egypt            | 568                  |
| France           | 392                  |
| Saudi Arabia     | 276                  |
| Russia           | 187                  |

\*13 March 2017

## Ensuring representation in Africa...



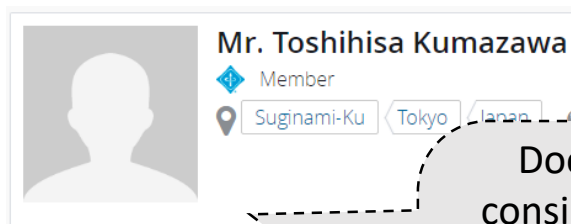
### Communities

- Egypt
- Kenya
- Tanzania
- Tunisia
- Uganda



# IEEE Collabratec™ – Bringing Together Members Globally

*Member engagement in action*



Does anyone consider to enter aerospace business in Japan. I am looking for small satellite module and co-work with aerospace products company in Europe.



**Dr. Martin A N Parks**

Senior Member

Hants Southampton United Kingdom



**Mr. Vincenzo Tancorre**

Affiliate

Agrate Brianza Monza and Brianza Italy



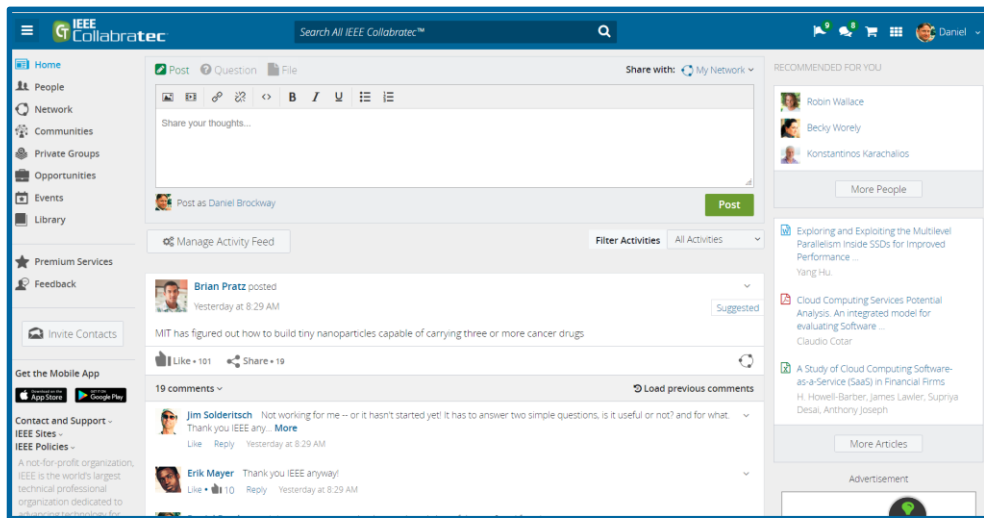
**Mr. Petar L Ljushev**

Senior Member

Soenderborg Denmark Denmark Section

# IEEE Collabratec™ – April Release

*Upgraded navigation, expanded features*



- ▶ Comprehensive site upgrade
- ▶ Bulletin-board style replying
- ▶ Rich media and text posting
- ▶ Box – new attached service
- ▶ Improved alert descriptions (more descriptive)

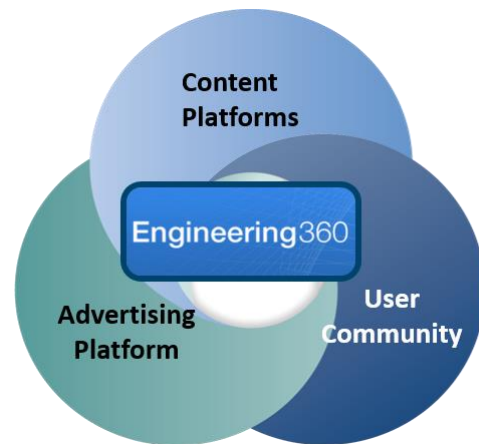
- ▶ Persistent log-in now available (no need to re sign-in)
- ▶ Mobile app available for Apple and Google Play



# IEEE GlobalSpec Engineering360 Platform

*Largest online destination for engineers and technical professionals*

- ▶ Business-oriented, content-rich marketing platforms that drives traffic and audience engagement
- ▶ Provides advertisers with a multi-media platform to access and engage directly with the engineering community



# EPICS<sup>IN</sup>IEEE

## *2016 highlights*

- ▶ Collaborating with R8 Young Professionals' Mind the Gap competition in Portugal, Spain, and Greece
- ▶ Awarded \$39K USD to R8 projects
  - \$28K USD to projects in Europe
- ▶ Sponsored event during the 2016 R8 YP Conference in Regensburg, Germany
- ▶ 2017 plans include strengthening relationship with YP and Student Branches throughout Europe





# IEEE SIGHT

*Collaborating with the R8 Humanitarian Activities Committee*

- ▶ **Croatia:** Missing Children Emergency Response System
  - Creating a system to provide information about missing and endangered children
  - Connected to a database with information maintained by Centre for Missing and Exploited Children in Croatia in cooperation with the EU organization Missing Children Europe (MCE)
- ▶ **Tunisia:** TAWASOL
  - Create an Internet-empowered next generation
  - Pilot a program in two schools that can eventually be scaled to other regions in Tunisia delivering ICT skills to pupils in all primary schools
  - Working with People Centered Internet and other partners
- ▶ SIGHT Groups have expanded to Croatia Section, Greece Section, Nigeria Section, Tunisia Section, and Western Saudi Arabia Section
- ▶ Outreach sessions held in 2016 at R8 meeting in Monaco, Young Professionals meeting in Iceland, and SYP Congress in Germany



# IEEE-Eta Kappa Nu Chapter Installations

*Two new chapter installations in Region 8*

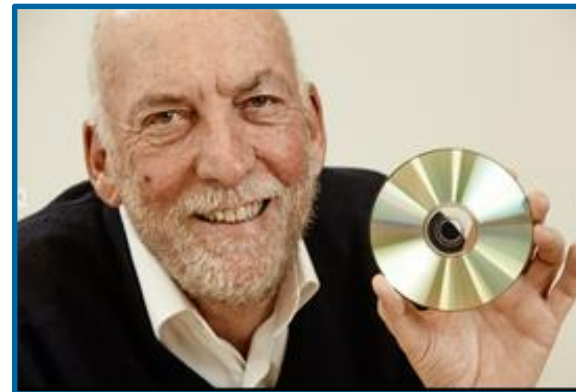
- ▶ IEEE-HKN Mu Eta Chapter, University of Kwazulu-Natal, Durban, South Africa
  - Installed by Dr. Saurabh Sinha on 23 August 2016
  - 11 undergraduate students, 3 graduate students, and 3 professionals
  - Prof. Thomas Afullo, Faculty Advisor
- ▶ IEEE-HKN Mu Nu Chapter, Politecnico de Torino, Turin, Italy
  - Installed by Dr. Vincenzo Piuri on 20 March 2017
  - 16 undergraduate and 31 graduate students
  - Prof. Paolo Montuschi, Faculty Advisor



# 2017 IEEE Medal & Recognition Recipients

*To be presented at IEEE Honors Ceremony in May*

- ▶ IEEE Medal of Honor: Kees Schouhamer Immink, President, Turing Machines, Inc., Rotterdam, The Netherlands
- ▶ 7 of the 19 IEEE Medals and Recognitions recipients from Region 8
- ▶ Alberto Broggi, Professor, University of Parma and General Manager, VisLab, Parma, Italy, recipient of the IEEE Medal for Environmental and Safety Technologies and featured speaker at the IEEE Vision, Innovation, and Challenges Summit



# 2017 IEEE Technical Field Award Recipients

*6 of the 31 recipients from Region 8*

- ▶ IEEE Cledo Brunetti Award: Guido Groeseneken, Professor, KU Leuven, and Fellow, IMEC, Leuven, Belgium
- ▶ IEEE Andrew S. Grove Award: Sorin Cristoloveanu, Director of Research CNRS, IMEP-LAHC, Grenoble, France
- ▶ IEEE Gustav Robert Kirchhoff Award: Marcel J.M. Pelgrom, Consultant (Retired), Pelgrom Consult, Helmond, The Netherlands
- ▶ IEEE Innovation in Societal Infrastructure Award: Antonello Monti, Professor, Institute Director, E. ON ERC RWTH Aachen University, Aachen, Germany
- ▶ IEEE Charles Proteus Steinmetz Award: David John Law, Distinguished Technologist, Hewlett Packard Enterprise, Oban, Argyll, Scotland
- ▶ IEEE Nikola Tesla Award: Adel Razek, Senior Research Director (Emeritus) and Professor (Honorary), The National Center for Scientific Research and Centralesupelec, Gif Sur Yvette, France



# IEEE Vienna Office Update

*Co-located with Austrian Standards Institute (ASI)*

- ▶ Formal office opening ceremony to follow
- ▶ In negotiations with top professional staff candidates
- ▶ Meeting space can be viewed and rented through ASI website: <https://www.austrian-standards.at/en/products-services/booking-the-meeting-center/>



# Questions?