2° Meeting with Industries at RTSI 2017

Italy Section Action for Industry: what’s new?

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IEEE Italy Section Chair

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IEEE

AIEE (1884) + IRE (1912) = IEEE Jan 1 1963

The evolution of IEEE has been coupled with the evolution of electrical, electronics and information science and engineering

Today IEEE is the world’s largest and leading non-profit organization in the fields of electrical engineering, computer science, electronics and ITC

Almost 423,000 members in more than 160 countries (almost 50% of whom are from outside USA)

Nearly 4 million documents in the IEEE Xplore® Digital Library, with more than 8 million downloads each month

IEEE publishes nearly a third of the world’s technical literature in electrical engineering, computer science, and electronics. This includes approximately 200 transactions, journals, and magazines published annually.

Sponsors more than 1,800 conferences in 95 Countries, annually

Nearly 1,300 active standards and more than 500 standards under development
Membership by Region

- R7: Canada
  ~ 4%

- R1 to R6: United States
  ~ 54%

- R9: Latin America
  ~ 4%

- R8: Europe, Middle East Africa
  ~ 18%

- R10: India, China, Pacific Rim
  ~ 20%

50% work for private industry, 20% in academia, 10% in government, 20% other (retired, self employed, unemployed ...
IEEE Italy Section History

1959

Mario Tchou founded the
Milano IRE Section
under Chairman Algeri Marino
name is changed to
Italy Section

1966

E. Gatti (Milano) chairs the
North Italy Section
after Central-South Italy Section
is formed by Barzilai (Rome)

North and Central-South
Italy Sections are
merged into the
Italy Section

Nov. 2005

Vatalaro
Petri
Cardelli
Tambosso

Donati
Petri
Tambosso

Palumbo

Ricco

Monaco

Zingales

Dadda

Mossotto

Peiser

Lucertini

Pampaloni

Galati

Palumbo

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IEEE Italy Section

UNIMORE

IEEE 2017

IEEE RTSI

IEEE Italy Section Today

- Almost **5,000 members** (the third largest in Region 8)

### 38 Chapters
- Aerospace & Electronic Systems - AES 10
- Antennas & Propagation/Electron Devices/ Microwave Theory & Tech - AP03/ED15/MMT17
- Antennas and Propagation / Microwave Theory & Tech - AP03 / MTT17
- Biometrics council - BIO
- Broadcast Technology - BT
- Circuits & Systems - CAS04#1
- Circuits & Systems - CAS04#2
- Computer – C016
- Consumer Electronics - CE
- Computational Intelligence – CIS11
- Control Systems – CS23
- Council on Superconductivity – CSC
- Dielectric and Electrical Insulation - DEI
- Education – E25
- Electromagnetic Compatibility – EMC27
- Electron Devices – ED15
- Engineering in Medicine & Biology – EMB18
- Geoscience & Remote Sensing – GRS29
- Geoscience & Remote Sensing – GRS29#2
- Industrial Electronics/Industry Applications/Power Electronics – IE13/IA34/PEL35
- Industry Applications/Power Electronics – IA34/PEL35
- Industry Applications - IA34
- Instrumentation and Measurement - IM09

### 3 Affinity Groups
- Information Theory - IT
- Magnetics - MAG33
- Nanotechnology Council - CH08677
- Nuclear and Plasma Sciences - NPS05
- Photonics – PH036
- Oceanic Engineering - OE
- Power & Energy – PE31
- Reliability – RL07
- Robotics and Automation – RA024
- Signal Processing – SP01
- Solid State Circuits – SSC37
- System Council
- System, Man & Cybernetics – SMC28
- Technology Management – TM14
- Vehicular Technology/Communications – VT06/COM19

### 25 SB and SBC
IEEE Italy Section Committees

Awards Committee
Conference Committee
Membership Development Committee
Action for Industry Committee
History Activity Committee
Educational Activity Committee
National Association Liaison Committee
Student Activity Committee
Information Management
Professional & Career Development
Young Professional Activity
The Region 8 Outstanding (large) Section Award 2016

The award ceremony took place on the 25th of March, 2017 in Stockholm during the 108th IEEE Region 8 Committee Meeting.
IEEE Italy Section Activities

Action for Industry Committee

Coordinator – Pietro Erratico (ex STM manager)
other three members of the committee from industry (two Industry Ambassadors) and the contribution of chapter chairs and other volunteers;

OBJECTIVE: strengthen the relationship with industries

○ increasing the Italian Industry participation in the R8 Mentor Program and R8 Internship Program;
○ organize informative specific meetings with selected big industries;
○ organization of panels and other joint events;
○ organization of student visits to industries;
○ organization of job fairs during Section conferences.
IEEE Italy SectionActivities

Technical Events

- Tenths of Distinguished Lecturers and Lectures, every year
- Conferences and workshops
  - RTSI 2015 - Torino
  - RTSI 2016 – Bologna
  - RTSI 2017 - Modena

The International Forum on Research and Technologies for Society and Industry, RTSI is organized by the IEEE Italy Section together with Italian Universities and with the technical sponsor of Italy Section Chapters, University Groups (ET, GII, GRIN, GUSEE, GMEE....) and IEEE Societies/Sections.
RTSI 2017 – Innovation to shape the future

Three main areas of interest are:

- **Smart Mobility**
- **Industry 4.0**
- **Smart Healthcare**

The main purposes of the event are:

- to promote and to strengthen partnerships and cooperation between academia and industry;
- to discuss inter-disciplinary ideas and to promote cross-fertilizing cooperation between researchers working in different research areas;
- to increase the public understanding and awareness of how engineering and technology can positively affect people quality of life;
- to promote discussion between the research community and related government bodies about effective and successful research policies;
- to disseminate recent advancements, research/technology solutions, and novel applications
RTSI 2017 – special events

- Tutorial
- Industry Panels
- Meeting with Industry
- Special meeting on Innovative enterprises in Italy
- IEEE Young Professional demo competition
- IEEE Student Branch meeting and Job Fair
- Start-up/spinoff and industry exhibition
- WIE (Women In Engineering) Affinity Group Meeting
IEEE Italy Section Activities

Awards

- Best PhD Thesis/Best Master Thesis/Best paper Awards
- Exemplary Student Branch Award
- YP Demo Award
- Best Chapter Award
- Honorary Award
- Distinguished Service Award
- Industrial Distinguished Lecturer Award
Awards

- **Honorary Award**
  this Award is assigned to candidates that have provided *exceptional contribution to the science and technology state-of-the-art* or outstanding service to humanity in the IEEE's designated fields of interest.

- **Industrial Distinguished Lecturer Award**
  This award is for recognizing IEEE Italy Section distinguished member of industry who is an excellent speaker and have made high quality technical contributions on advanced topics that are of primary importance to the industry and to IEEE Italy Section community.
  With this award IEEE Italy Section promotes the diffusion of cutting-edge knowledge with emphasis on industrial challenges and perspective, for the benefit of its members. At the same time, the speakers and their employing companies are given the opportunity to make a strong impact on IEEE Italian community.
  Ultimately, **this award aims to strengthen the ties between IEEE members and industry leaders.**
IEEE PES S+ Pilot in Italy

The IEEE Italy PES Chapter has instituted the “IEEE PES Italy Scholarship Award (IPISA) Fund” with the aim of attracting bright & meritorious students to the Electrical Engineering, and in particular the power engineering, stream.

Recognizing 4 recipients in 2017

http://www.ee-scholarship.org/about-the-scholarship/italy
Thank you!

http://sites.ieee.org/italy/
39 Societies

- Aerospace & Electronic Systems
- Antennas & Propagation
- Broadcast Technology
- Circuits & Systems
- Communications
- Components, Packaging, & Manufacturing Technology
- Computer
- Computational Intelligence (formerly Neural Networks)
- Consumer Electronics
- Control Systems
- Dielectrics & Electrical Insulation
- Education
- Electromagnetic Compatibility
- Electron Devices
- Engineering in Medicine & Biology
- Geoscience & Remote Sensing
- Industrial Electronics
- Industry Applications
- Information Theory

- Instrumentation & Measurement
- Intelligent Transportation Systems
- Magnetics
- Microwave Theory & Techniques
- Nuclear & Plasma Sciences
- Oceanic Engineering
- Photonics
- Power Electronics
- Power & Energy
- Product Safety Engineering
- Professional Communication
- Reliability
- Robotics & Automation
- Signal Processing
- Society on Social Implications of Technology
- Solid-State Circuits
- Systems, Man, & Cybernetics
- Technology and Engineering Management Society
- Ultrasonics, Ferroelectrics, & Frequency Control
- Vehicular Technology

7 Technical Councils

- Biometrics
- Electronic Design Automation
- Nanotechnology
- Sensors
- Superconductivity
- Systems
- RFID
IEEE Italy Section Activities

Education

- International Summer School on Hybrid Microgrids (Trento, September 2017)
- 2nd IEEE Italy Section PhD Summer School (Perugia, September 2017)

Several continuing education courses were organized by the chapters and a wide space was devoted to education during the RTSI forum where interesting tutorial sections offered high quality information covering topics of interests to academics, researchers and industry professionals.
IEEE awarded a Milestone to the invention of an innovative high-speed multiplier architecture by prof. Luigi Dadda in 1965. On 29 September 2016, the bronze plaque of this prestigious recognition was placed at the Politecnico of Milano with the participation of Barry L. Shoop, 2016 IEEE President, at the inaugural ceremony.
IEEE Italy Section Activities

Newsletter

All the IEEE Italy Section members are informed half-yearly by the Newsletter of the Section about the recent news of the Section, the Chapters, the Section Committees, the Student Branches and other activities and announcements.