How to Rock a Career

"In the middle of difficulty lies opportunity."
—Albert Einstein

Ruth Wolfish
IEEE Client Services Manager
October 2017
IEEE: Who we are
1884: Where We Came From

Nikola Tesla, Alexander Graham Bell, Thomas Edison
About the IEEE

- World’s largest technical membership association with more than 430,000 members in over 160 countries

- Four Core areas of activity
  - Membership organization
    - Technical
    - Geographic
  - Conferences organizer
  - Standards developer
  - Publishing company
Who are IEEE members?

MEMBER WORKFORCE

- 43.6% Private Industry
- 31.2% Educational Institution (Public or Private)
- 9.0% Public/Government
- 5.1% Self-Employed
- 5.1% Retired
- 4.3% Other
- 1.7% Unemployed
Resources

- Full-text databases
  - IEEE Xplore
  - Other relevant scientific publishers

Marian.Armour-Gemmen@mail.wvu.edu
Associate University Librarian
Phone: 304-293-9758
Current IEEE content on IEEE Xplore

- 4.2 full-text documents and growing
  - About 25k new documents added monthly
  - Xplore updated daily
- 180 IEEE journals & magazines
- 1,500 annual IEEE conferences
- 2,500 active and archived IEEE standards
- Backfile to 1988 with select legacy content back to 1872
- Search alerts, citation downloads, patent and paper citations

http://ieeexplore.ieee.org
Advanced Search

Webinar: See the New Features in InnovationQ Plus

Ideal for IP professionals interested in learning about the robust new features coming to InnovationQ Plus, like corporate tree, enhanced searching, and next generation semantic mapping.

View the recorded webinar
### Advanced Search Options

**ENTER KEYWORDS OR PHRASES, SELECT FIELDS, AND SELECT OPERATORS**

- **Search:** 
  - Metadata Only
  - Full Text & Metadata

- **Operators:**
  - AND

**CONTENT FILTER**

- All Results
- Open Access

**PUBLISHER**

- Return Results from
  - IEEE(3,472,515)
  - IET(219,602)
  - MITP(22,530)
  - VDE(7,037)
  - Alcatel-Lucent(6,313)
  - IBM(6,292)
  - BAI(2,794)
  - TUP(2,352)
  - Morgan & Claypool(658)
  - CSEE(26)

**CONTENT TYPES**

- Conference Publications (2,643,472)
- Journals & Magazines (1,050,856)
- Books & eBooks (27,601)
- Early Access Articles (11,561)
- Standards (6,123)
- Courses (430)
Klink Klinkhachorn IEEE Fellow

- Why did you join IEEE? What is an IEEE Fellow?
- How has IEEE helped you in your career?
- What did you do in during your career that helped you, and what do you wish you did differently?
Create a free personal account

Why use a IEEE Xplore Personal Account?
• Search preferences
• Set-up search and content alerts
• Use new Collabratec networking site to store records and more...

Mobile Edge Computing for Augmented Reality Applications

Mobile battery drain is an evident issue for consumers, especially when running augmented reality applications. Find out how researchers are leveraging mobile edge computing to conserve the battery life of phones and improve the efficiency of AR applications.

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3-click process – just fill out your First Name, Last Name, email address, password.
Professional Networking: Collabratec

IEEE Young Professionals
IEEE Young Professionals is a global community of enthusiastic, dynamic, and innovative members and volunteers, who are passionate about the development and advancement of new technologies. Our products, services, programs, and initiatives aim to address the needs of early-career professionals pursuing technology-related careers in engineering, business, management, marketing, and law. IEEE is committed to helping young professionals evaluate their career goals, polish their professional image, and create the building blocks of a lifelong and diverse professional network. Participate in discussions, post links, watch videos, participate in polls and more by accessing this community on G+. Simply attach your Google account and select the "Access now" or "Request invitation" button.

Women in Leadership
This community supports and advances the leadership aspirations of women engineers and scientists, in conjunction with an annual conference. Participate in discussions, post links, watch videos, participate in polls and more by accessing this community on G+. Simply attach your Google account and select the "Access now" or "Request invitation" button.
Career Development Resources and Opportunities for student members

IEEE Job Sites and Career Alerts
- Locate career opportunities easily and confidentially
- Weekly email newsletter containing career advice

IEEE Xplore
- Learn to use IEEE Xplore for company, career, and job related searches

Awards, Fellowships & Scholarships
- Recognizes the accomplishments of IEEE members
- Enhance your resume with an IEEE award

Conferences
- Networking and Presenting Opportunities
- Student Paper Contests
## Become an IEEE Student Member

### 2017 IEEE membership dues

<table>
<thead>
<tr>
<th>Residence</th>
<th>Member Full Year</th>
<th>Member Half Year</th>
<th>Student Full Year</th>
<th>Student Half Year</th>
</tr>
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<tbody>
<tr>
<td>United States</td>
<td>$199.00&lt;sup&gt;1&lt;/sup&gt;</td>
<td>$99.00&lt;sup&gt;1&lt;/sup&gt;</td>
<td>$32.00</td>
<td>$16.00</td>
</tr>
<tr>
<td>Canada (incl. GST)</td>
<td>$175.45</td>
<td>$87.73</td>
<td>$33.60</td>
<td>$16.80</td>
</tr>
<tr>
<td>Canada (incl. HST for NB, NF, NS and PEI)</td>
<td>$190.35</td>
<td>$95.18</td>
<td>$36.16</td>
<td>$18.08</td>
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<tr>
<td>Canada (incl. HST for ON)</td>
<td>$187.37</td>
<td>$93.69</td>
<td>$36.16</td>
<td>$18.08</td>
</tr>
<tr>
<td>Canada (incl. GST and QST Quebec)</td>
<td>$190.31</td>
<td>$96.16</td>
<td>$38.79</td>
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<tr>
<td>Africa, Europe, Middle East</td>
<td>$162.00</td>
<td>$81.00</td>
<td>$27.00</td>
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</tr>
<tr>
<td>Electronic membership&lt;sup&gt;3&lt;/sup&gt;</td>
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<tr>
<td>Latin America</td>
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<td>$76.50</td>
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<td>$13.50</td>
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<tr>
<td>Electronic membership&lt;sup&gt;3&lt;/sup&gt;</td>
<td>$81.00</td>
<td>$40.50</td>
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<td>n/a</td>
</tr>
<tr>
<td>Asia, Pacific</td>
<td>$154.00&lt;sup&gt;2&lt;/sup&gt;</td>
<td>$77.00</td>
<td>$27.00</td>
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<td>$82.00</td>
<td>$41.00</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

*Half-year rates apply to new members only.

1. This amount represents base dues plus IEEE-USA assessment. In the US, depending on region, an additional regional assessment is added that ranges from US$2 to US$5.

2. Except in Japan, where full-year dues are US$179, for renewing members only.

3. Electronic membership options are only available to higher-grade members in certain countries.

- All dues pricing is listed in US dollars.
- IEEE membership year runs from 1 January through 31 December.
- NEW applications received between 16 August 2016 and 28 February 2017 will automatically be processed at the full-year dues rates. Services begin immediately.
- NEW applications received between 1 March and 15 August 2017 will automatically be processed for half-year membership ending 31 December 2017 at the half-year dues rates. Exception is when the applicant specifically requests their application be processed for the full year. However, we cannot guarantee availability of back issues of all publications for the first half of the calendar year.
- Membership in IEEE Technical Societies involves additional dues. See the table below for information on Society membership dues.

http://www.ieee.org/membership_services/membership/join/join_dues.html

- Survey of 17 industries, highlighting the top 20 companies in each sector based on value and quantity of patents in corporate portfolio
- Useful to target top companies in your job search

IEEE ResumeLab: ieee.org/resumelab

New member benefit!

- Create resumes and cover letters using customized templates
  - Built-in training & tool tips
- Build video resumes and work portfolios
- Take mock interviews with 900+ practice interview questions
- All publishable to sharable website
**IEEE ResumeLab**

- **Resume or curriculum vitae (CV):** Develop your resume or CV using a number of different templates geared toward technical industries, sectors, and work-experience stages.

- **Letters:** The interview process requires various types of letters, from a cover letter to a post-interview thank you letter. ResumeLab will help you develop these letters and assist you in communicating optimally throughout the hiring process.

- **Skills assessment:** Take a skills assessment to help you highlight skills you possess, your competency in these skills, and how your experience with these skills is unique.

- **Mock interview:** Perform a mock interview to help prepare for the real thing. Choose your interviewer, types of questions, and whether you want to record yourself or not.

- **Video resume:** Create a video resume or use the video function to record a custom video message to potential employers.

* Must be an IEEE Member to access
Enhanced scholarships

Scholarships, grants, and fellowships

IEEE Charles LeGeyt Fortescue Fellowship: This scholarship carries a stipend of approximately US$24,000 and is awarded to a first-year graduate student obtaining his or her master's degree in Electrical Engineering from an engineering school of recognized standing located in the United States.

IEEE Computational Intelligence Society Conference Travel Grant Program: This program offers a number of travel grants to assist IEEE Student members presenting papers at IEEE NNS (Neural Networks Society) sponsored conferences.

IEEE Computational Intelligence Society Summer Research Grants Program: This program offers scholarships of US$1,000 to US$4,000 for deserving graduate students who need financial support for their research during a summer.

IEEE Computer Society Merwin Scholarship: This scholarship recognizes and rewards active leaders in the IEEE Computer Society Student Branch Chapters. Up to 20 US$2,000 scholarships are available and awarded on an annual basis.

IEEE Dielectrics and Electrical Insulation Society Graduate Student Fellowship: This fellowship was designed to support graduate research in the area of insulation or dielectrics. Two US$7,500 or three US$5,000 scholarships are awarded annually.

IEEE Electron Devices Society Graduate Student Fellowship: This fellowship promotes, recognizes, and supports graduate-level study and research in EDS, with at least one fellowship awarded to students in each of the major geographic regions: Americas, Europe/Middle-East/Africa, Asia/Pacific.

IEEE Life Members’ Fellowship in Electrical History: This fellowship in Electrical History supports either one year of full-time graduate work in the history of electrical science and technology at a college or university of recognized standing, or up to one year of post-doctoral research for a scholar in this field who has received his or her Ph.D. within the past three years. The stipend is US$17,000, and a research budget of US$3,000 is available.

IEEE Life Member Graduate Study Fellowship in Electrical Engineering: This renewable US$10,000 fellowship is awarded annually to a first-year, full-time graduate student obtaining his or her master's degree for work in the...

IEEE Societies Offering Grants

Below are some of the grants offered by IEEE Societies that are designated for Student Members only. To apply, you will need to follow the appropriate link to obtain eligibility and applications.

- IEEE Circuits and Systems Society
- IEEE Computational Intelligence Society
- IEEE Communications Society
- IEEE Information Theory Society
- IEEE Instrumentation & Measurement Society
- IEEE Microwave Theory and Techniques Society
- IEEE Nuclear and Plasma Sciences Society
- IEEE Power Electronics Society
- IEEE Signal Processing Society
- IEEE Solid-State Circuits Society

* Some scholarships not available to international students
IEEE Interview tips
What skills do engineering employers look for?

- Effective communication skills
- Interpersonal skills (teamwork)
- Technical knowledge
- Organizational skills
- Enthusiasm, commitment and self-directed learning
Good questions…

- What kind of person are you seeking for the(se) position(s)?
- What particular skills do you value most?
- What do you like about working for your organization?
- What are current issues that your organization faces and what impact will these have on new hires?
- I read about [xyz] project on your website. Is your department involved in that work?
- Several graduates of my major have gone to work for your organization and they speak highly of their experience.
- What are the career paths for new hires over the first few years on the job?
- What professional development opportunities are available for employees?
The Interview: Stand Out From the Crowd

- **Connect with insiders**
  - Use your network to find an inside contact; convey your interest and gain insight into the organization
  - IEEE Membership, IEEE Conferences, LinkedIn, professional societies

- **Showcase your skills**
  - Online portfolio (LinkedIn, portfolio sites such as Carbonmade or Coroflot, personal website)
  - Videos of previous projects or proposals

- **Demonstrate your value**
  - Use your knowledge of the company to develop something unique, like an uncommon marketing tactic or proposal for new project/program

- **Ask tough questions. Some examples:**
  - What’s the biggest change your group has gone through last year?
  - What’s your (future boss’) leadership style?
  - On which competitor(s) are you most focused?

- **Send a thank you message**
  - Even better, send a handwritten note
Networking with the IEEE
Networking the IEEE Way

- Involvement in IEEE Societies, Sections, and Chapters
  - Local Section activities
  - National and international activities
- Participation in IEEE Women in Engineering groups
- >1,500+ IEEE conferences per year
  - Great locations for face-to-face networking!
  - Opportunity to give papers or poster sessions
Student Travel grants

IEEE offers a number of student travel grants to assist Student members in attending conferences and presenting papers. Additional student grant opportunities may be found by visiting an IEEE Conference website matching your technical interest.

- IEEE Societies offering grants
  - IEEE Circuits and Systems Society
  - IEEE Computational Intelligence Society
  - IEEE Communications Society
  - IEEE Industry Applications Society
  - IEEE Information Theory Society
  - IEEE Instrumentation & Measurement Society
  - IEEE Microwave Theory and Techniques Society
  - IEEE Nuclear and Plasma Sciences Society
  - IEEE Power Electronics Society
  - IEEE Signal Processing Society
  - IEEE Solid-State Circuits Society

- IEEE Foundation Student Grants
  - The IEEE Foundation supports various Education Funds to support the brightest and most capable young minds. To view each grants requirements or to apply, you will need to visit the Standards Education Grants web page for further details.
  - Spoken Language Processing Student Grant Program
  - Harold Sobol Student Grant Program
  - Grainger IEEE PES Student Program Fund
  - IEEE Valentin T. Jordanov Radiation Instrumentation Travel Grant
  - Charles DeBoer LISPA Attendance Grant
  - Ganesh N. Ramaswamy Memorial Student Grant
  - William R. Mann Memorial Student Travel Grant
  - Raj Mittra Travel Grant
  - Michel Gourdamen Memorial Fund
  - IEEE Magnetic Society Student Travel Award
  - IEEE Magnetic Society Best Student Paper Award

*If you would like your conference listed please email student-services@ieee.org.
# Finding Conference Calls for Papers

## IEEE Conference Search Results

### Search Conferences

- **Keywords, Title, Conf #, etc...**

### Select type & date range

- **Conference date**
- **Call for papers**

### Location (optional)

- **Region02-Eastern USA**
- **USA**
- **West Virginia**

### Sponsor (optional)

- **Select the IEEE Sponsor**

### Search

<table>
<thead>
<tr>
<th>Conference Name</th>
<th>Conference Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017 North American Power Symposium (NAPS)</td>
<td>17 Sep - 19 Sep 2017</td>
<td>Morgantown Marriott at Waterfront Place Two Waterfront Place Morgantown, WV, USA</td>
</tr>
</tbody>
</table>

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Get Business Cards! Seriously...
Thank you for your time today!

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Phone: 908-781-7725