

IEEE R8 Conference Leadership Workshop

Monday 2 February 2026

16:00-17:30 (GMT+2)

Cairo, Egypt

Co-located with the IEEE MELECON 2026

<https://2026.ieee-melecon.org/workshop-on-ieee-r8-conference-leadership/>

Room PAVILLON 1, Hotel Pyramisa, Cairo, Egypt
(Time zone GMT+2) [Join TEAMS meeting](#)

Program

16:00-16:10

[Objective and introduction \(slides 3-11\)](#)

Tiziana Tambosso

16:10 - 16:30

[Why run an IEEE Conference and how to organize a successful conference \(slides 12-33\)](#)

Tiziana Tambosso

16:30- 17:15

[Managing Your Technical Program – Best Practices \(slides 34-73\)](#)

Filippo Sanfilippo and Ahmed Yousef Hassan

17:15 - 17:30

Q&A

Conference Leadership Workshop on different topics will be organized and announced in the next months



Conference Leadership Workshop

Tiziana Tambosso

IEEE R8 Vice-Chair Technical Activities



Purpose of this workshop

Purpose:

Provide information and guidance
to develop a successful IEEE conference

To:

IEEE R8 Section chairs, Section Conference Coordinators, Chapter
Chairs and IEEE R8 Conference Leaders and perspective
conference organizers

Organized by IEEE R8 Conference Coordination Committee (CoCC)
in cooperation with:

IEEE Conferences Events & Experiences (CEE)

Conference Coordination Committee 2026



Katerina Papanikolaou
(Cyprus)
Chair



Rene Garello
(France)
Past-Chair



Ahmed Hassan
(Egypt)
Member



Ilhem Kallel
(Tunisia)
Member



Filippo SanFilippo
(Norway)
C. Member



Humphrey Muhindi
(Kenya)
C. Member



Sergio Rapuano (Italy)
C. Member
Liaison with IEEE S/TCs and NA



Albena Mihovska
(Denmark)
C. Member



Rodolfo Oliviera (Portugal)
Liaison with R8 F&P Conferences
ad hoc Committee



Tiziana Tambosso (Italy)
Ex-officio member



Shmuel Auster (Israel)
Ex-officio member



Meng Lu (Benelux)
Ex-officio member

R8 Flagship and Portfolio Conferences ad hoc Committee



Rodolfo Oliviera
(Portugal)
Chair, Liaison with CoCC
MELECON 2026 steering
committee chair



Tuziana Tombosso
(Italy)
RTSI 2026 steering committee
chair and R8 representative for
HISTELCON 2026 & IHTC 2026



Albert Lisko
(South Africa)
AFRICON 2027 steering
committee chair



Giambattista Grusso
(Italy)
RTSI 2027 steering committee
chair



René Garello
(France)
ENERGYCON 2026 steering
committee chair



Ibrahim Kucukdemiral
(Uk & Irland)
EUROCON 2027 steering
committee chair



tba
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IHTC 2027 steering committee
chair

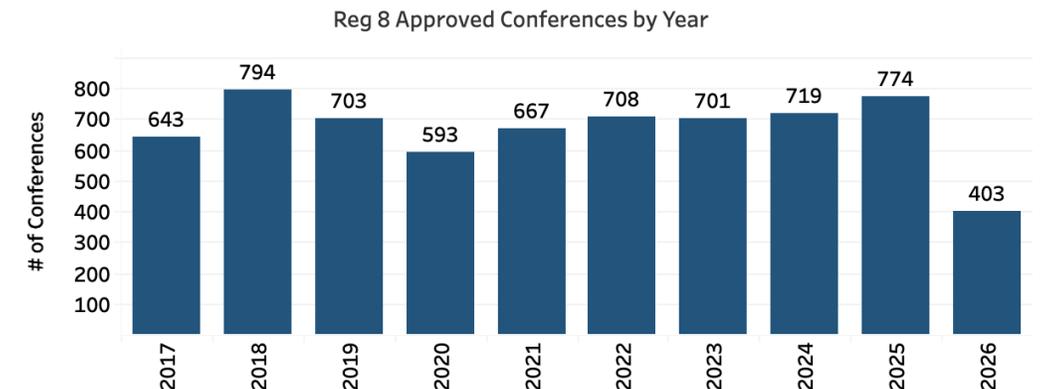
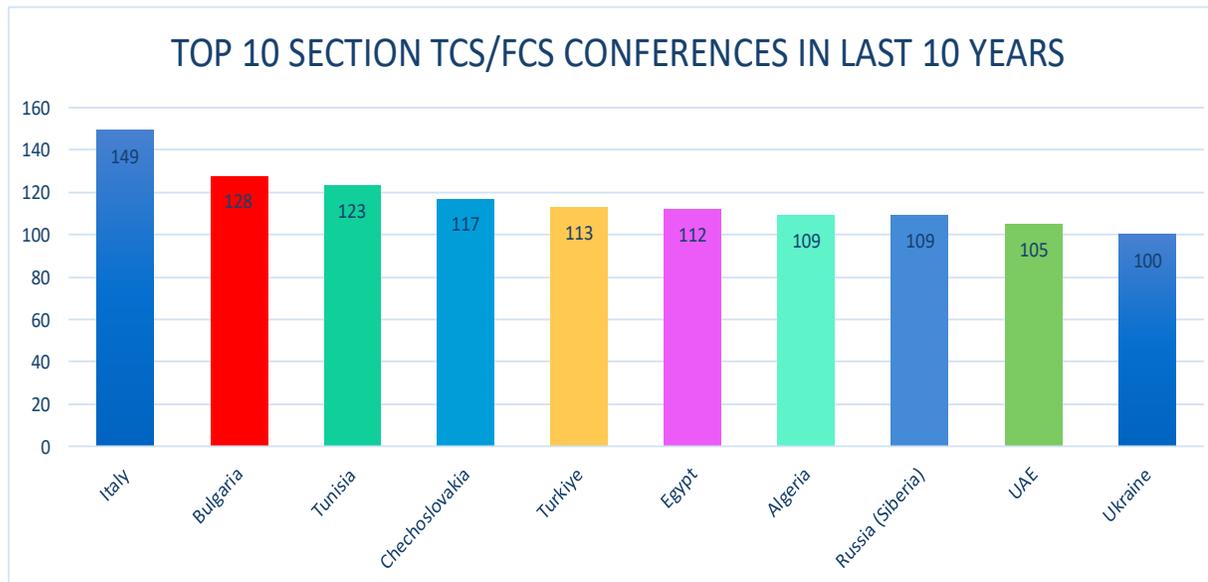
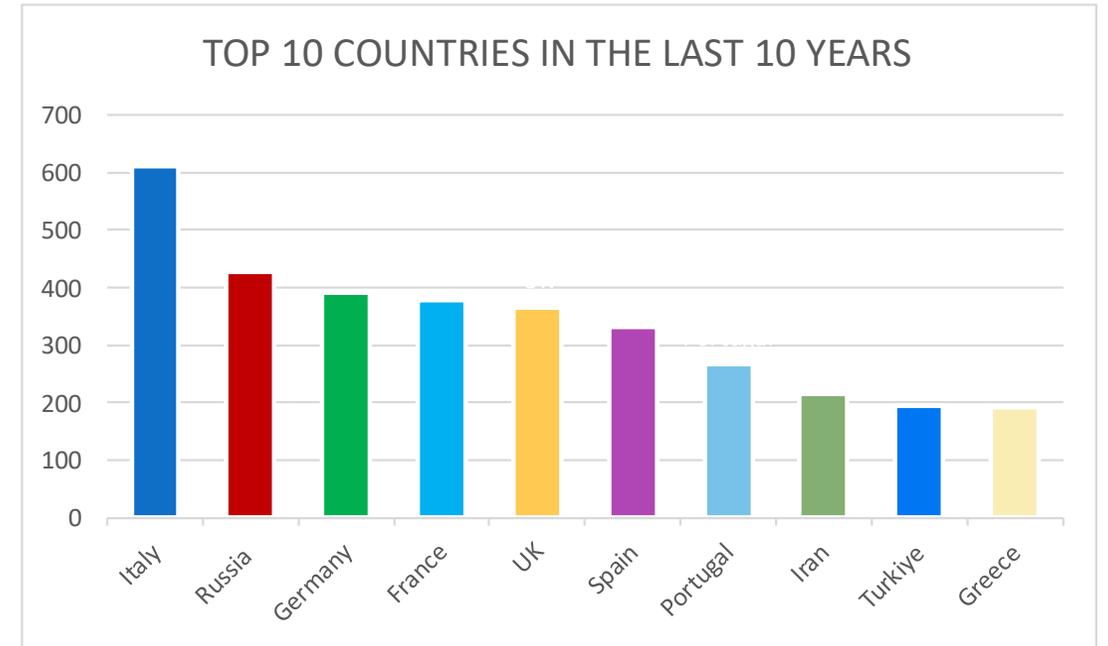


Vinko Lešić
(Croatia)
Liaison with finance committee

Statistics

In the last 10 years (2017- Jan. 2026)

- **6,705** Conferences were organized in R8
- **2,521** TCS/FCS by R8 Sections (37,5 %)
- **199** TCS/FCS by R8 (3%)



Recommendations

- Appoint Section's Conference Coordinator (for Section chairs)
- Increase your involvement in the IEEE Society conferences organized in your country (for Section and Chapters – be involved as TCS or FCS)
- Cooperate with other R8 Sections to organize conferences/events
- In your TCS/FCS conferences, always plan to organize one or more of these events:
 - IEEE Booth
 - Industry oriented workshop
 - Entrepreneurship Workshop
 - Humanitarian workshop
 - Professional and Education Activities
 - WIE and SYP events and competitions
 - Student Paper Contest/Competitions/hackathons

Benefits for R8 Conference Sponsorship

	Flagship	Portfolio	FCS	TCS
Repayable Loan -seed funding (to be returned after conference closing)	USD 5k	USD 5k		
R8 Steering Committee	X	X		
Guidance of the organizing committee (by an assigned CoCC liaison member)	X	X	X	X
E-notices to R8 members	5	5	4	3
R8 media publicity (R8news, social media, R8Today, ...)	X	X	X	
Organizing side R8 CoCC workshop/session/meeting	X	X		
Assistance for conference Application/MoU	X	X		
R8 Director participation in the opening session	X	X		
Participation of a R8 CoCC representative	X	X	X	
IEEE R8 booth	X	X		
Announce conferences in R8 website	X	X	X	X
Organizing special events in cooperation with R8 Committees (SAC, YP, WIE, Afl, etc.)	X	X [#]	X ⁺	
Free plagiarism check provided by IEEE	X	X	X	X
IEEE Web hosting and IEEE domain for the conference website and email address provided by IEEE for each flagship/portfolio conference	X	X		

Requirements for R8 Conference Sponsorship

	Flagship	Portfolio	FCS	TCS
Region 8 FCS (%)	>=30%	>=30% *	>=5%	0%
Local Organizing Section FCS (%)	>=50%	>=50% *	>=5%	
Local OU officer(s) involved as program committee co-chair(s)	x	x		
R8 Senior/Fellow members involved as conference co-chairs (CC), technical program co-chairs (TPC), program committee (PC) members	all CC and TPC	all CC and TPC	at least 1 CC, 1 TPC, 5 PC	at least 1 TPC, 5 PC
Program committee members from different R8 countries	x	x	x	x
Progress meetings of the organizing committee with the R8 CoCC representative (liaison)	Monthly	at least 4	at least 2	email
Involvement (FCS/TCS) of local Section and at least two local Chapters (or Societies / Councils/ IEEE Technical Communities/IEEE OUs) in the conference field	x	x	x	x
Free Registrations for R8 representatives (including R8 student paper contest – SPC) that conference must provide	Up to 8	Up to 4	Up to 2	1
Submit R8 Conference Final report (link)	x	x	x	x
Previous R8 involvement	NA	at least 1 edition as R8 FCS	At least 1 edition as R8 TCS	
Promote the R8 Voluntary Contribution Fund (VCF)	x	x	x	

Useful links and training material

Contact Information

conferences.officer@ieeer8.org

IEEE R8 CoCC website

<https://ieeer8.org/conference-coordination>

IEEE CEE website

<https://events.ieee.org/>

Center for Leadership Excellence

<https://ieee-elearning.org/totara/dashboard/index.php?id=5>



Let's advance together



Why Run an IEEE Technical Conference

2 February 2026

Tiziana Tambosso - IEEE R8 VC-Technical Activities



Agenda

- ▶ Reasons to Run a Conference
- ▶ Timing
- ▶ Goal Setting
 - Quantitative
 - Qualitative
- ▶ Getting Started

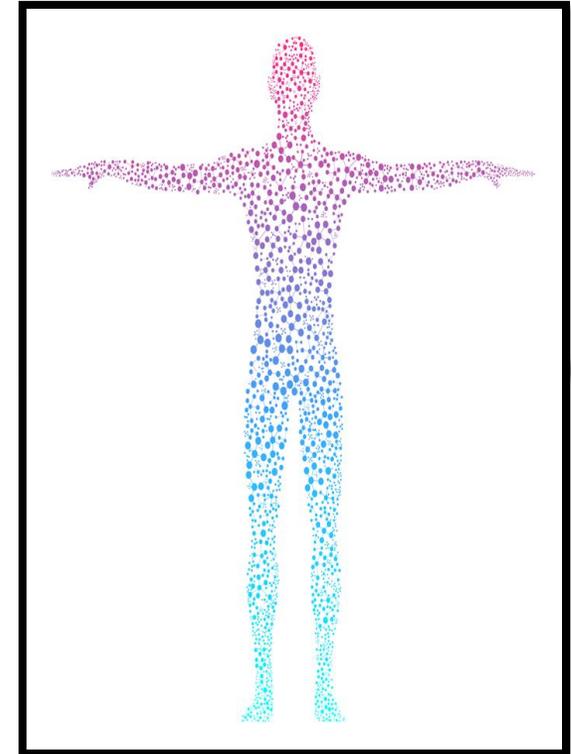


Why Run a Conference?

Goals and Objectives

IEEE

- ▶ To Benefit Humanity
 - Advancing engineering and technology
 - Create forums for idea sharing and discussion
- ▶ IEEE Growth
 - IEEE brand exposure, growth and relevancy
 - Sustaining IEEE Xplore® as a premier content source
- ▶ Operating surplus
- ▶ Recurring IP revenue



Why Run a Conference?

Goals and Objectives

IEEE Organization Units (OU)

- ▶ Organization Unit Vitality
 - Generate operating surplus
 - Reach potential new members
 - Create member engagement opportunities
 - Provide collaboration opportunities with other groups
 - Enhance the awareness, credibility and esteem of OU
- ▶ Organizers
 - Skill building
 - Provide opportunities for others
 - Give back to the community
 - Fun



Why Run a Conference?

Goals and Objectives

Individuals

- ▶ Share their work with peers and obtain feedback
- ▶ Become published and recognized for their work
- ▶ Connect with colleagues and the community
- ▶ Identify potential collaborators



Conferences Matter to IEEE

- ▶ Conferences are vital to IEEE
 - ▶ Conferences provide major financial contributions to IEEE
 - ▶ IEEE conferences contribute much of the content to IEEE *Xplore*
 - ▶ And 2300+ opportunities for member engagement
-
- ▶ Conferences are also a major sources of risk to IEEE – financial, legal, quality and reputational
 - ▶ Conferences require significant volunteer attention and effort
 - ▶ OU leadership support and oversight is essential



Getting Started



Getting Started: Review Event Fundamentals



Goal Setting - Quantitative

Examples

- ▶ Number of papers submitted, acceptance rate (#,%)
- ▶ Number of attendees, authors, exhibitors, patrons, reviewers, volunteers
- ▶ Surplus returned to IEEE (\$)
- ▶ OU Engagement - # of IEEE members involved in conference/on committee
- ▶ New IEEE memberships (#)
- ▶ Develop new list of potential attendees
- ▶ Industry representation (%)
- ▶ Women representation (%)
- ▶ Young Professionals (%)
- ▶ Press coverage, articles published, social media activity



Goal Setting - Qualitative

Examples

- ▶ OU learning and skill attainment
- ▶ Overall event quality
- ▶ Outstanding Networking Events
- ▶ Prominence of Keynote/Invited speakers/Esteemed Reviewer
- ▶ Prestigious Sponsors
- ▶ Professional development, Learning Labs
- ▶ Site tours, social and student activities
- ▶ Effective sponsor coordination and working relationships
- ▶ Food and beverage, event execution
- ▶ Cutting edge topics
- ▶ Highest quality conference proceedings
- ▶ Social Media Buzz

Pick a Subset and Focus



Develop Your Financial Plan



▶ Financial Planning

- **Draft budget – determine breakeven, plus with surplus**
 - This helps you evaluate if you need a sponsor, which can bring additional attendees
- Acquire loan-seed monies – Section/Region
- Project results
- Identify areas of concern

▶ Define Conference Tool Set

- Financial Management
- Paper management
- Paper Format
- Copyright Collection Registration
- **Plagiarism Screening**



Conference Strategies



CRITICAL
THINKING

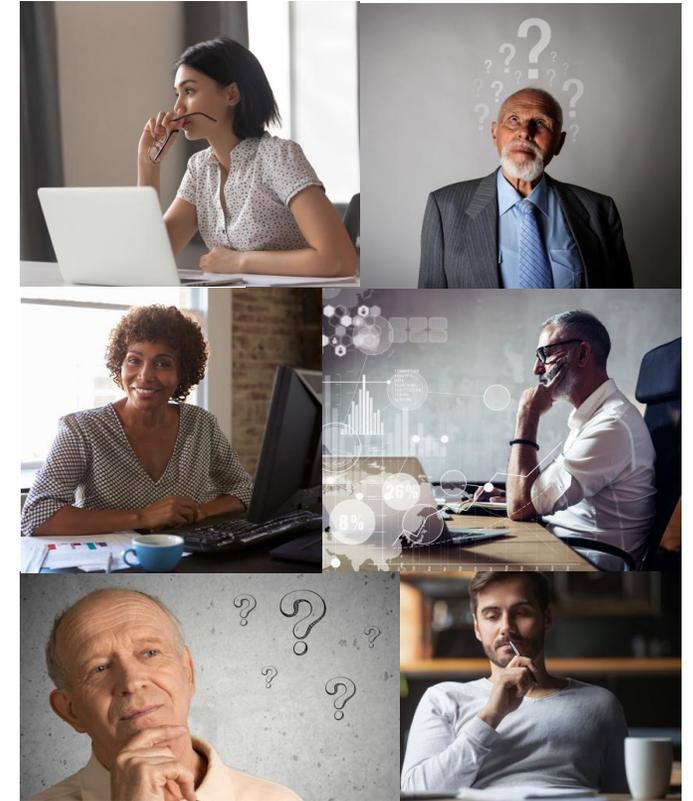
- ▶ Develop a Detailed Conference Plan
 - Define the conference point of difference, what makes your event unique?
 - Goals and objectives
- ▶ Create the Management Plan and Structure
 - Evaluate the number of people required to execute conference
 - # reviewers, skill of reviewer
 - experienced and learning members
 - Identify candidates for key roles
 - Can they work together?
 - Do we have the skills to achieve the plan?
 - Do we need help? What type? How much?

Section Leadership Role Conferences

Leadership in Section Sponsored Events

Your role in Conferences as a Section Leader

- ▶ Review & approval of all conferences sponsored by your Section
- ▶ Ensuring quality of any conference cosponsors
- ▶ Technical content quality
- ▶ Ensuring a sound financial plan
- ▶ Engagement in the approval process with CEE
- ▶ Synergies with IEEE Society fields of interest
- ▶ No conflict with other conferences in timing and naming
- ▶ Adequate resources identified
- ▶ IEEE Brand Protection



OU Approval – Financial

- ▶ IEEE Organizational Units are ultimately responsible for the financial and technical accountability of their solely sponsored and co-sponsored conferences, *therefore they must also approve the conference budget prior to submission to IEEE CEE for approval*
- ▶ Criteria for organizational unit approval should include:
 - ▶ Sound financial planning
 - ▶ Effective event planning principles
 - ▶ Benefit to the membership
 - ▶ No conflict with other conferences
 - ▶ Technical content quality
 - ▶ Adequate OU resources - financial and people
 - ▶ IEEE brand protection



Key Steps



► Identify Partners

- Co-Sponsors
- Review and vetting process to determine suitability
 - Understand roles, responsibilities and working relationships
- Contributors / Exhibitors
- Volunteers

► Implementation Planning

- Location and venue needs
- Communications and marketing
- Registration
- Event logistics

► If you need help, contact CEE





Get to Know your Leadership Teams

Due Diligence – Team Building

- ▶ It is best to conduct due diligence when building your team
- ▶ Review of past accomplishments
- ▶ Review of past roles
- ▶ Discuss with peers on volunteer soft skills and interactions
 - communications, written/spoken, reliability
- ▶ Does the volunteer have the time – a key question that should always be asked
 - Provide estimated weekly workload in hours (example: 15 hrs/week typically)
- ▶ Confirm the volunteer is in good standing as it relates to publishing and conference management
 - Contact CEE to verify individuals are not on the prohibited authors list (PAL) or the prohibited organizer list (POL)



Summary

- ▶ Planning process begins 12 to 18 months in advance of conference date for conferences less than 200 attendees
- ▶ Goal setting is critical
- ▶ Take the time to define your target market, it will impact success, develop a detailed conference Plan
- ▶ Team Building is extremely important, create a strong management plan and structure
- ▶ Evaluate the number of people required to execute conference
 - # reviewers, skill of reviewer, experienced and learning members
- ▶ Develop a draft budget to determine breakeven, as it will help you evaluate if you need a sponsor, which can bring additional attendees

IEEE Governance and Oversight

iee.org



IEEE Policy Shapes Conference Activity

IEEE Policies

- IEEE Policies Section 10 contains the policies within which all IEEE conferences are to be governed
- https://www.ieee.org/documents/ieee_policies.pdf



MGA Operations Manual

- The IEEE Member and Geographic Activities Operations Manual also provides detailed information regarding IEEE Member and Geographic Activities (MGA) governance, policies, geographic unit operations, and committee reporting structure, including conferences
- <https://mga.ieee.org/board-committees/operations-manual>

Managing your Technical Program – Best Practices

Filippo Sanfilippo and Ahmed Hassan Yousef- IEEE R8 CoCC members

IEEE R8 Conference Leadership Workshop
2 February 2026, Cairo, Egypt



Managing your Conference Technical Program

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The Technical Program Chair Manages the Peer Review Process for a Conference

- Ensure a well-balanced, high-quality program is organized and presented
 - The Technical Program Chair manages the Call for Papers through peer review and ultimate selection of every accepted paper, including non-presented paper and Plagiarism policies as set by IEEE and the Conference Chair
 - Recruiting/organizing/managing a Technical Program Committee and reviewer team
 - Coordinates scheduling of session locations/formats and determining needs for the local arrangements of the program

- **Plagiarism Screening – Similarity (k)**

PLAGIARISM

- **This is NOT a part of, or a substitute for, the Peer Review process!**

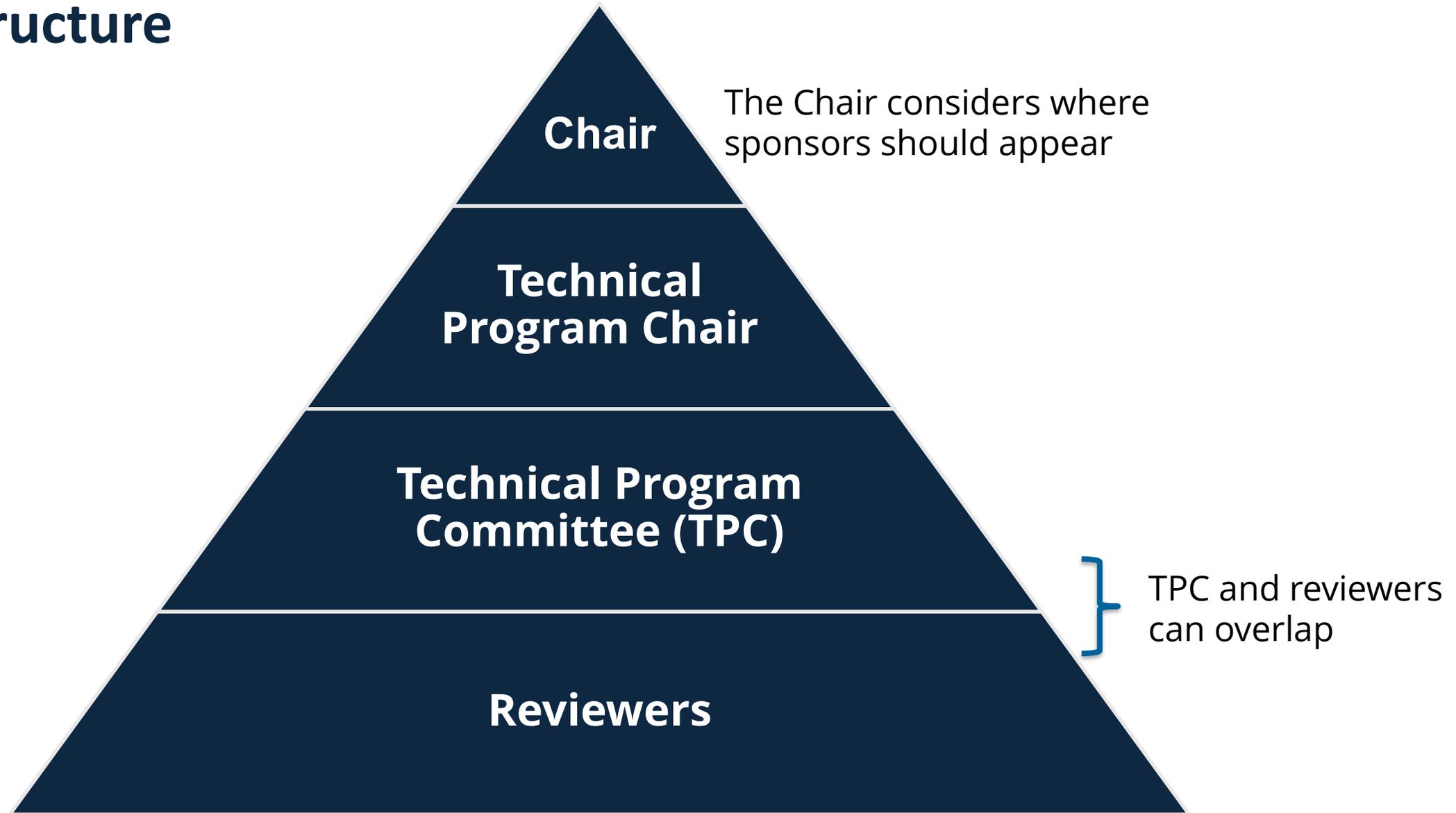


The Technical Program Chair's Role



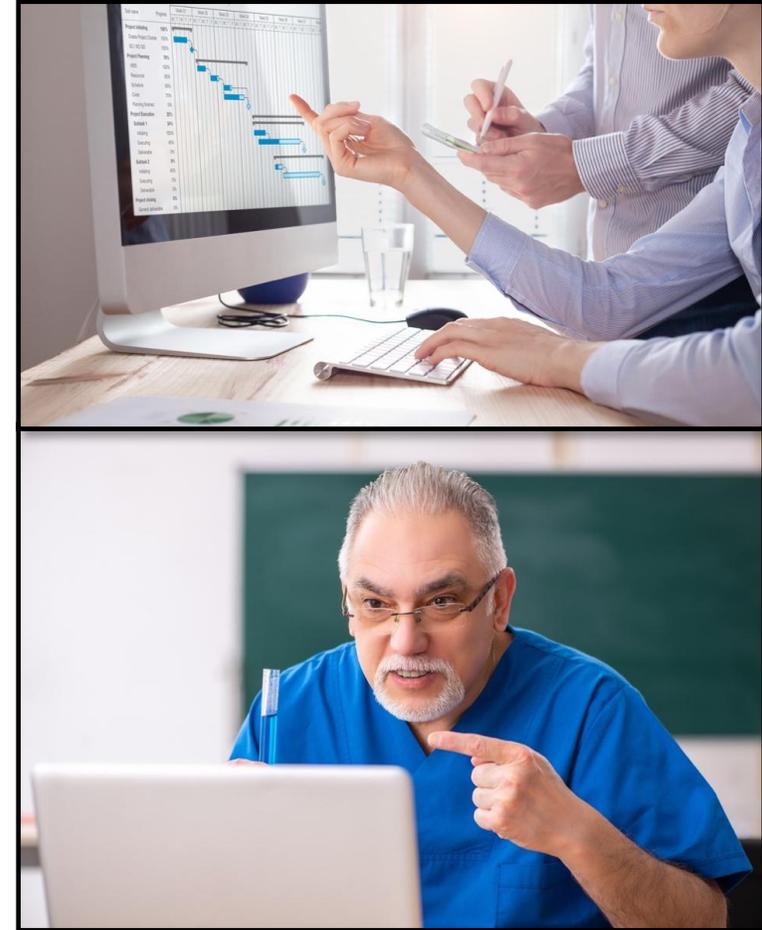
- Discuss key learnings with prior Conference Technical Program Chair
 - What challenges were encountered? Were goals met?
 - Review technical areas from previous year. Determine if additional technical areas should be included or removed.
 - Were the reviewers overburden or was the workload acceptable?
 - What peer review tool was used and was it effective? Consult with CEE for recommendations if needed.
 - Which key contacts would you recommend for this conference's Technical Program Committee?
 - Did you utilize CrossCheck for plagiarism screening?
- Develop tracks when there are multiple, significant topics within the overarching conference scope
 - Assign a track chair if one is warranted
 - How many tracks did you have last year?

Structure



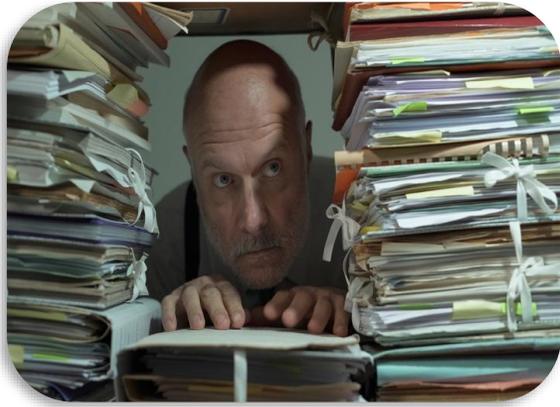
Technical Program Development

- Allocate and schedule time for all accepted papers
- **Plan 20 minutes per presentation***
 - **15 minutes for the oral presentation**
 - **5 minutes for answering questions**
- Typically, invited/tutorial speakers receive a longer presentation time
- Assign appropriate space to meet anticipated interest
- If planning a poster session, decide how many you want displayed & how (e.g., digital)
- Determine number of poster sessions and length of time for poster session/s. Most poster sessions run the time span of a regular technical session or longer.
- Sizing your peer review team will be covered later in this presentation
- * Or consider alternate formats that retain adequate time for presenters and the audience to interact
 - This can be done virtually

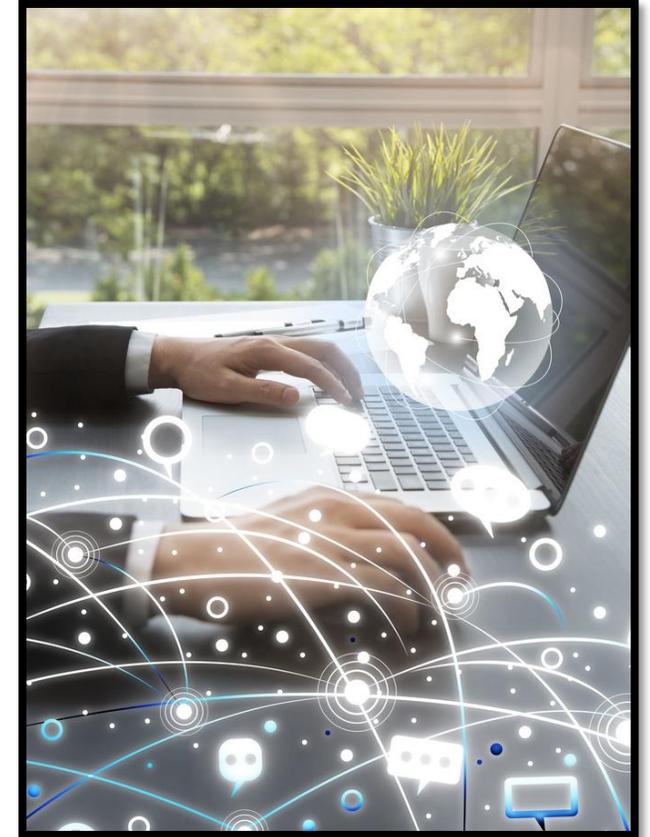


Technical Program

Peer Review Systems



- Select a Peer Review, paper management system – check IEEE recommendations. Check in with Conference Chair if costs need to be covered in overall budget.
- Find out upfront if your peer review system has a mobile app if you require one
- Consider conference size and complexity
- Develop a non-presented paper policy
- Gain committee and chair agreement
- Communicate the policy in the call-for-papers and all author communications
- Make sure the IEEE sponsor is engaged in developing the technical program



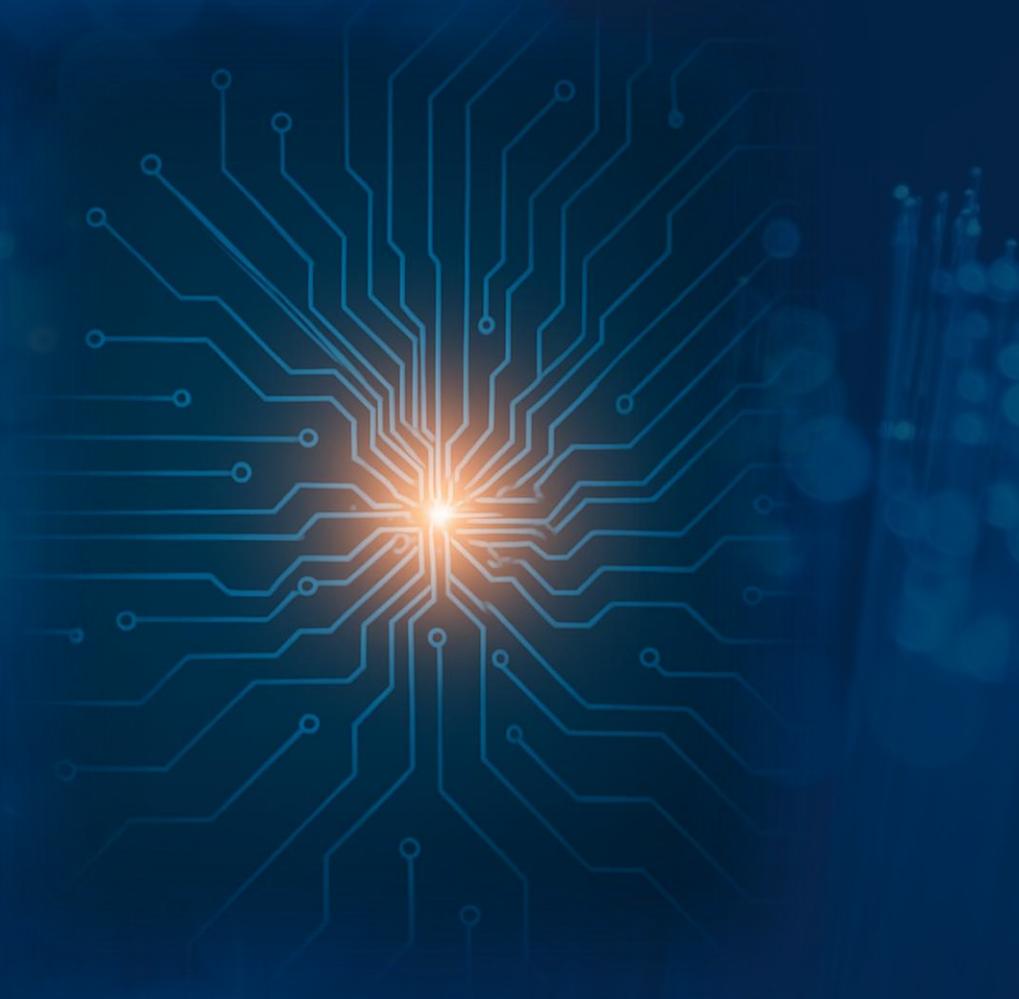
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Due Diligence – Team Building

- It is best to conduct due diligence when building your team
- Review of past roles, experience and performance
- Consider training and mentoring for those that may benefit
- Discuss with peers on volunteer soft skills and interactions
 - Communications, written/spoken, reliability, thoroughness
- Does the volunteer have the time – a key question that should always be asked
 - provide estimated weekly workload in hours needed (example: 15 hours per week typically)
- Confirm the volunteer is in good standing as it relates to publishing and conference management
 - Contact CEE to verify individuals are not on the prohibited authors list (PAL) or prohibited organizer list (POL)
- Think about succession planning, so your TPC doesn't need to start from scratch each year
 - Let volunteers know that when joining the TPC they are expected to serve in the role for a certain amount of time. Reviewers are often required to serve a certain amount of time before being promoted to topic/track chair or eventually serving as program chair.

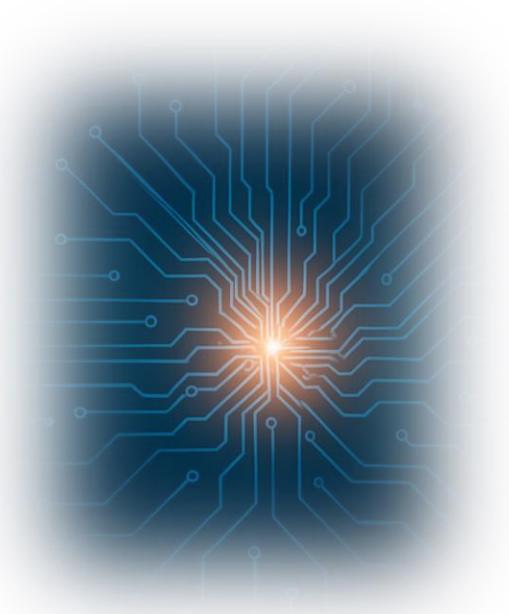


IEEE Conference Scope

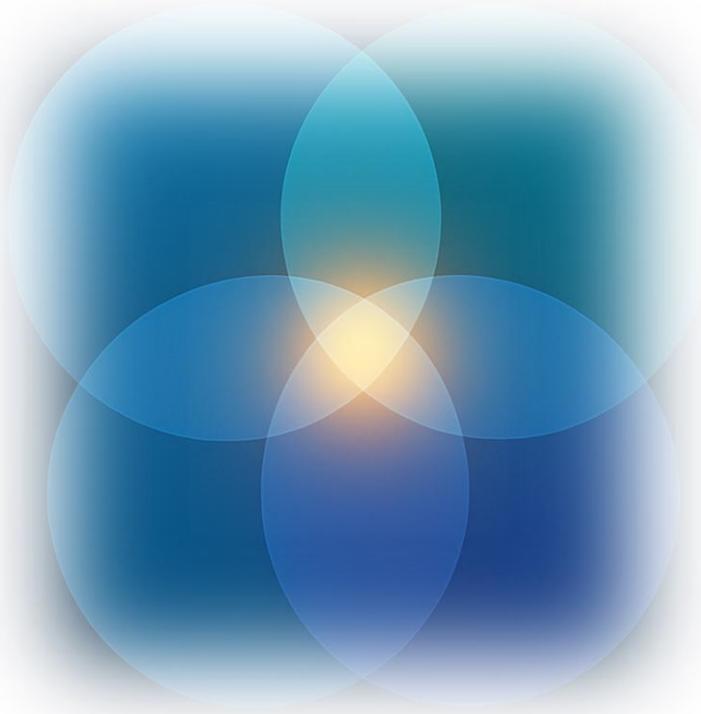


Conference Scope

- IEEE is a technical publisher – readers and commercial partners look for works in IEEE’s technical areas
 - Each Society and Technical Council has a Field of Interest
 - Full listing: <https://ta.ieee.org/operations/governing-documents>
 - Additional guidance can be found in the “Aims and Scope” of IEEE Journals, found on each journal's page on *Xplore*
- Conference attendees expect content in the scope of the conference which may be more broad than technical areas
- **The conference’s reviewers must be expert in the subject area of each paper they review**
 - Reviewer pools are developed for the technical scope of the conference
 - With a wide range of science disciplines included in your conference scope – do you have enough reviews for so many different topics? How will you handle related topics outside the field of IEEE?



Conference Scope & IEEE Scope



- The technical scope of the conference should have significant overlap with the technical scope of IEEE
- The conference scope that was approved by IEEE should be clearly stated in the conference promotional materials (e.g., web site) and should not change without permission from IEEE
- The papers that the conference sends for inclusion into IEEE *Xplore* must be within the scope of IEEE *Xplore*

How Content is Categorized in IEEE Xplore - Suitability

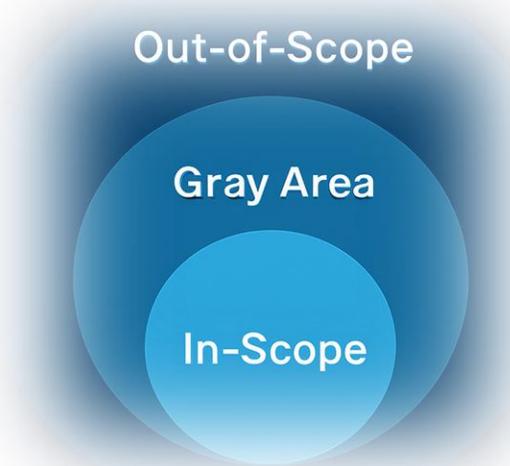
- Aerospace
- Bioengineering
- Communication, Networking & Broadcasting
- Components, Circuits, Devices & Systems
- Computing & Processing (hardware/software)
- Engineered Materials, Dielectrics & Plasma
- Engineering Profession
- Education Engineering
- Geoscience
- Nuclear Engineering
- Photonics & Electro-Optics
- Power, Energy Industry Applications
- Robotics & Control Systems
- Signal Processing & Analysis
- Transportation
- Fields, Waves & Electromagnetics
- General Topics for Engineers (Math, Science & Engineering)



Scope Boundaries

Gray Areas/Defined Relevance

- **Agriculture**
 - Intelligent systems or remote sensing
- **Architecture**
 - Control and electrical systems
- **Arts**
 - Intersection with engineering and/or impact of technology
- **Biology**
 - Related engineering in medicine
- **Chemistry**
 - Applicability to semiconductor processing
- **Economics & Finance**
 - Related to Engineering Management
- **Human Behavior & Sociology**
 - Related to Engineering Education or Engineering Management



- **Logistics**
 - Related to Engineering Management or Intelligent Systems
- **Management**
 - Engineering or technical management
- **Mathematics**
 - Ensure applicability to engineering
- **Mechanics**
 - Related to MEMS or Robotics

How to Conduct the Peer Review Process



What is Peer Review ?

- The process of evaluating a scholarly work by a group of experts in the same field to make sure it meets the necessary standards before it is accepted or published.

Common Types of the Review Process

- Single Anonymous Review **Most Common**
 - Reviewers' names are hidden from the author
- Double Anonymous Review
 - Reviewers' names are hidden from the author and author's names are unknown to the reviewers
 - The double-anonymous review process is intended to prevent bias (or the perception of bias) towards any author



Sizing Your Peer Review Team

- **Determine the number of reviewers required based on:**
 - Expected number of papers submitted
 - **Three reviews per paper (3)**
 - Define the maximum number of papers per reviewer
 - suggested: 12 full papers - maximum per reviewer
 - At least 4-week review time period
- Review previous conference history

- **Example:**

- Anticipated full paper submissions = 200
- Reviews per paper = 3
- Total reviews = 600
- Full papers per reviewer = 12
- **Number reviewers needed = 50**



Assembling Your Reviewer Team

- Experience level – a mix
- Areas of expertise
- Geography mix
- Institution
- Industry/academic

Your goal is to have the reviewer pool reflect all those that may to submit a paper, including expertise.



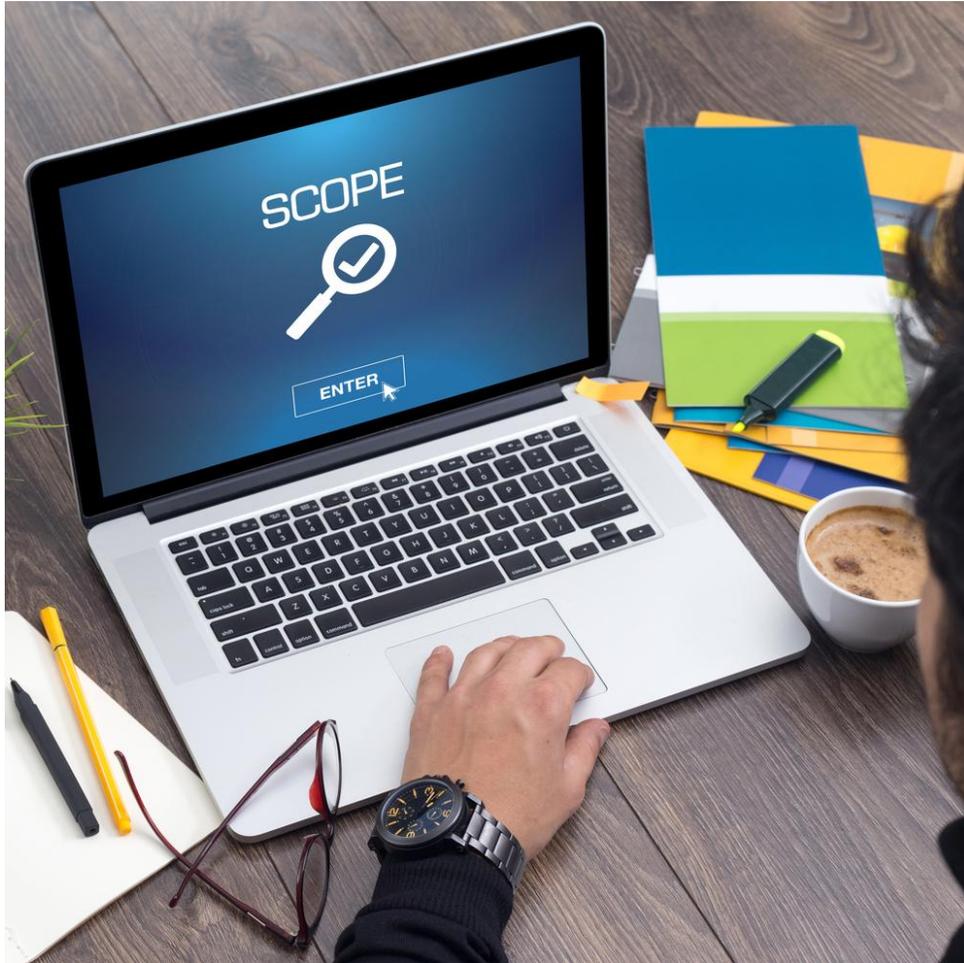
Peer Review Process Systems



- The Technical Program Chair manages this process
 - Selects Paper Management System
- Papers are organized by topical areas
 - Match topics with reviewers' expertise
- Paper assignments are managed within a peer review system (same as paper management system)
 - Reviewers provide feedback to authors
 - Reviewers ultimately provide a final score for the paper and send it back to the Technical Program Committee (TPC)
- TP Chair monitors and communicates number of accepted papers / acceptance rates to the Conference Chair throughout the process



Verify the Conference Scope



- Reviewers should make sure that the **scope of the papers that they review are within the stated scope of the conference**
- Papers that are outside the scope of the conference should be rejected



Privacy: Reviewers Responsibilities

- Participants in the review process (i.e., referees and anyone else who is authorized to handle conference submissions) **shall treat the contents of conference submissions under review as confidential information not to be disclosed to others before publication**
- No one with access to a submission shall make any inappropriate use of the special knowledge that access provides

IEEE Publication Services and Products Board Operations Manual 2019

Conference Publications Policy: PSPB Operations Manual – 8.2.2.B (page 99)



Reviewer Questions

EXAMPLE: Paper Scoring Feedback

Result 1			
Relevance to the conference	7	Technical strength	4
Originality	6	English writing	4
Overall	5		
Comment			
<p>This paper mainly shows us the test result of SVM (support vector machines) method, which is a new type of learning method based on statistical learning theory, for transient stability analysis of power systems. The result of the test has proved the superiority of the SVM method and more needs to be done to perfect this method.</p> <p>The test program needs to be enriched based on the test result gathered. From the result of two tests we can see that in small scale of training and testing, the performance is perfect while in large scale test faults appeared. In this case, staged experiments needed to be conducted to find out the critical point of the test number and get to know the reason of fault appearance.</p> <p>This is a good start for this kind of method, but more needs to be done to perfect this algorithm.</p>			

- Relevance to conference (**scope**)
- **Novelty:** is this original material distinct from previous publications?
- **Advancement:** is this a significant contribution to the field?
- **Validity:** is the study well designed?
- **Data:** interpreted and analyzed correctly?
- **Clarity:** are the ideas expressed clearly, concisely, and logically?
- **Compliance:** are all ethical and conference requirements met?
- **Format:** Which presentation format do you believe is most appropriate for this submission? (Oral vs. Poster)
- **Reviewers Confidence Score** - on a scale
 - Highest level: direct expert knowledge
 - Lowest level: general familiarity

Peer Review Process

- Considerations during process

- Do I have enough submissions?
 - If No, do I need more promotion?
- Do I have an adequate number of accepted papers?
- Do I need any extensions?



- TP Committee validates that all reviews have occurred and develops three groupings of papers

- Reject
- Accept Oral
- Accept Poster

Ongoing Challenges in Reviews

Critical role for the sponsoring OU!



Receiving enough high-quality papers by the submission deadline

Finding enough experts to provide quality reviews by the deadline

- Expert in the subject of the papers
- Consider prior year authors
- Qualified students can serve as reviewers

Managing conflict of interest.

- **Reviewers should recuse themselves from conducting a review if they interact closely with any of the authors or if any authors are from the same institution**

Reviewer Expectations



- Reviewers are experts in subjects of the papers that they review
- They provide a high-quality review and evaluation of the technical content
- They review and evaluate the presentation quality of the papers
- They are unbiased
- They make sure that the authors have met their responsibilities

Expert Evaluation of Submitted Papers

CrossCheck Portal

Ideas Dishonesty Thoughts
Journalism Academic
Breach Ethics **PLAGIARISM** Work Sanctions
Wrongful Appropriation
Stealing Language Writing
Author Infringement Copycat Books
Suspension Intentional Thefts
Unintentional Copyright

<https://www.ieee.org/publications/rights/cross-check-portal.html>

Intellectual Property Rights (IPR) Team

Tips



- IEEE has enabled use of the CrossCheck Portal as a stand-alone web application that can be used by any publications volunteer at any time.
- Save time by avoiding duplication of efforts
 - Coordinate your process before you get started, have dialogue with the IEEE IPR Staff to see if anything has changed
- Submitting content in a timely fashion is integral to your success

Plagiarism and Similarity

- IEEE defines plagiarism as the reuse of someone else's prior ideas, processes, results, or words without explicitly acknowledging the original author and source
 - It is a serious breach of professional conduct, with potentially severe ethical and legal consequences
- IEEE prohibits republication of substantially the same material, even by the same author(s)
- IEEE requires that all content be screened for possible plagiarism or republication
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Article Title: Polystyrene-supported GaCl₃ as a highly efficient and recyclable heterogeneous Lewis acid catalyst for one-pot synthesis of N-substituted pyrroles

Author: Ali Rahmatpour

Article History: Received 22 December 2011; Received in revised form 10 March 2012; Accepted 21 March 2012

Keywords: Polymer-supported catalyst; Pyrrole; Paal-Knorr condensation reaction; Heterogeneous Lewis acid catalyst

ABSTRACT: A new and environmentally friendly method for the preparation of N-substituted pyrroles from one-pot condensation reaction of hexanedione with amines and diamines in the presence of polystyrene-supported gallium(III) chloride (PS-GaCl₃) as a highly active and reusable heterogeneous Lewis acid catalyst is presented. This new protocol has the advantages of easy availability, stability, reusability and eco-friendly of the catalyst, high to excellent yields, simple experimental and work-up procedure.

1. Introduction: Functions and pyrroles are an important class of nitrogen-containing heterocyclic compounds. They constitute the core unit of many natural products, synthetic materials, and serve as building blocks for porphyrin synthesis. Members of this family have wide applications in medicinal chemistry, being used as antimicrobial, anti-inflammatory agents, antibacterial, antiviral [3–5]. These compounds can be prepared from the Hantzsch procedure [6], 1,3-dipolar cycloaddition reactions [7], aza-Wittig reactions [8], annulations reactions [9], and other multistep operations [10]. Despite these new developments, the Paal-Knorr condensation remains one of the most significant and simple methods for the synthesis of pyrroles. Several catalysts have been used to promote this reaction including HCl [11], p-TSA [12], H₂SO₄ [13], Sc(OTf)₃ [14], Bi(NO₃)₃·5H₂O [15], SnCl₄·2H₂O [16], Ti(OPr_i)₄ [17], RuCl₃ [18], InCl₃, InBr₃, In(OTf)₃ [19], zeolite [20], Al₂O₃ [21], montmorillonite K10 [22], silica sulfuric acid [23], layered zirconium phosphate and phosphonate [24], montmorillonite [25], montmorillonite KSF-clay and I₂ [26]. Usually, the above cyclocondensation process could proceed in ionic liquid [27] or ultrasonic and microwave irradiation [28]. However, despite the potential utility of these catalysts, many of these methodologies for the synthesis of pyrroles associated with several shortcomings such as low yields, prolonged reaction time, harsh reaction conditions, the requirement of excess of catalysts, the use of toxic and detrimental metal precursors as catalysts, and relatively expensive reagents and high temperature, and tedious work-up leading to the generation of large amounts of toxic metal-containing waste. The main disadvantage of almost all existing methods is that the catalysts are destroyed in the work-up procedure and their recovery and reuse is often impossible, which limit their use under the aspect of environmentally benign procedures.

Heterogeneous supported catalysts have been gained much attention in recent years, as they possess a number of advantages in preparative procedures. Immobilization of catalysts on solid support improves the available active site, stability, hygroscopic properties, handling, and reusability of catalysts which all factors are important in industry [31]. Therefore, use of supported and reusable catalysts in organic transformations has economical and environmental benefits. A large number of polymer supported Lewis acid catalysts have been prepared by immobilization of the catalysts on polymer via coordination or covalent bonds [32]. Such polymeric catalysts are usually as active and selective as their homogeneous counterparts while having the distinguishing characteristics of being easily separable from the reaction mixture, recyclability, easier handling, non-toxicity, enhanced stability, and improved selectivity in various organic reactions. Polystyrene is one of the most widely studied heterogeneous and polymeric supports due to its environmental stability and hydrophobic nature

* Tel.: +98 21 44739518; fax: +98 21 44739517.
E-mail address: rahmatpour@vip.sci.iaut.ac.ir

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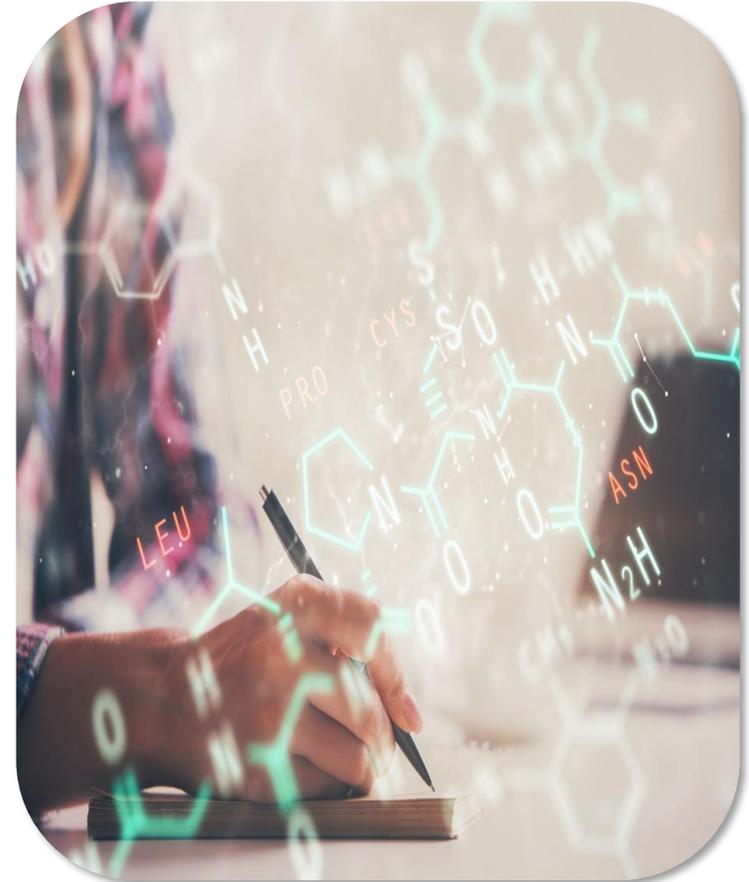
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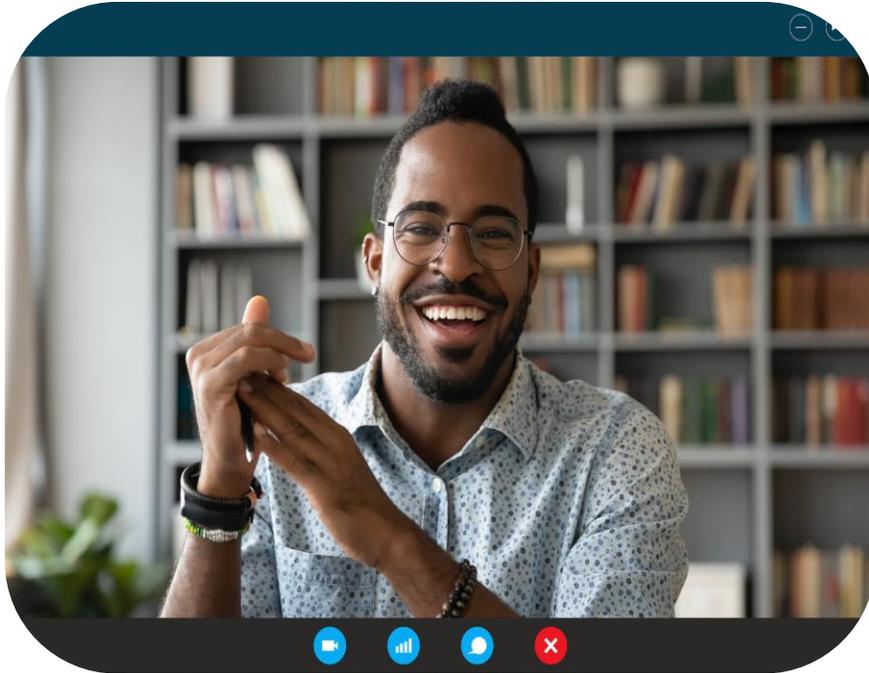
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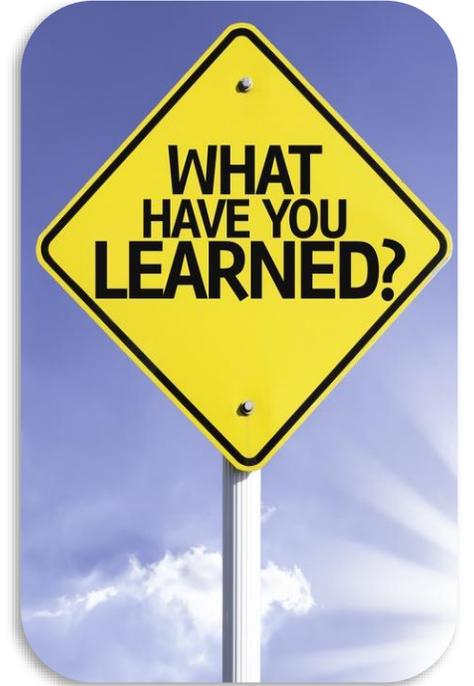
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