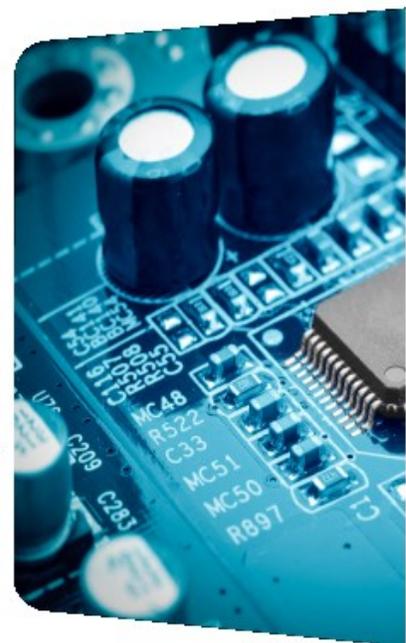
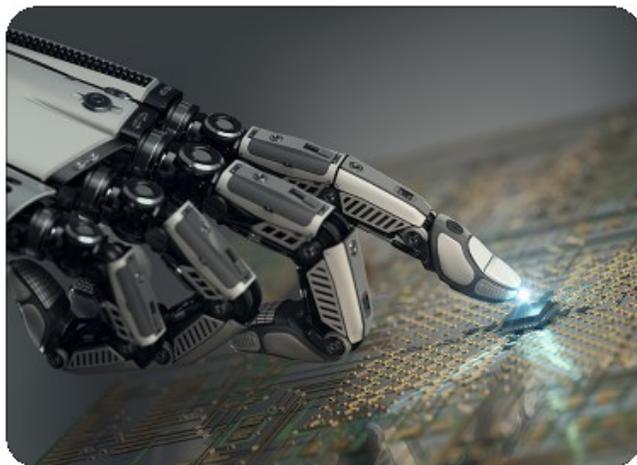


*Welcome! to*

*3<sup>rd</sup>*  **edtm**  
Electron Devices Technology and Manufacturing Conference

*Singapore*



## EDS President's Opening Remarks

Fernando Guarin

*March 13, 2019*

*Singapore*



## 1<sup>st</sup> EDTM - Toyama, Japan 2017



## 2<sup>nd</sup> EDTM - Kobe, Japan 2018



# IEEE ELECTRON DEVICES SOCIETY

*Promoting excellence in the field of electron devices for  
the benefit of humanity*



## EDS Mission

To foster professional growth of its members ...



### Publishing – Exchange of Information

- Journals
- Open Access
- Conferences



### Education – Professional Growth

- Live Webinars
- Distinguished Lectures
- Student Outreach



### Technical Recognition

- Awards
- Honors
- Student Fellowships

# Publishing: Support over 100 Sponsored/

## Co-Sponsored Conferences in a Year, Worldwide



# LAEDC

Latin American Electron Devices Conference  
Armenia, Quindio, Colombia. February 24-27, 2019

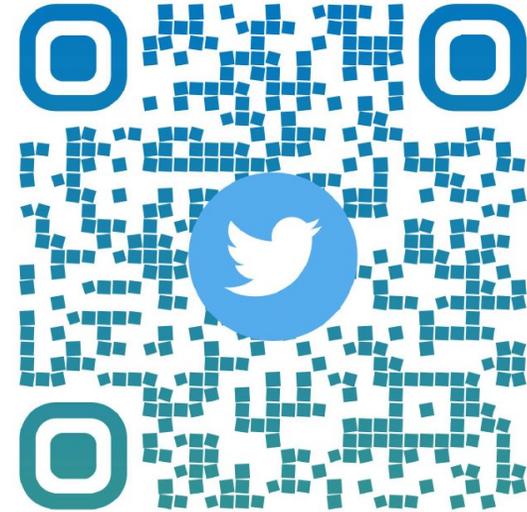




IEEE Electron Devices Society



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 **IEEE**  
*Advancing Technology  
for Humanity*

# EDTM 2019 - Singapore

March 12 -15



**12 March : Tutorials & Short Courses**

**13 March : Official Opening of EDTM 2019**

- **Plenary Talks**
- **Invited Talks & Contributed Papers**
- **Women in Engineering (WIE) Event**

**14 March : 2<sup>nd</sup> Day of the Conference**

- **Invited Talks & Contributed Papers**
- **Poster Papers**
- **Conference Banquet @ S.E.A. Aquarium**

**15 March : 3<sup>rd</sup> Day of the Conference**

- **Invited Talks & Contributed Papers**
- **Conference Closure & Best Poster Award**
- **CREST Workshop**

# EDTM 2019 Organizing Team

<b>General Chair</b>	<b>: Geok Ing Ng</b>	<b>: NTU</b>
<b>Technical Chair</b>	<b>: Don Disney</b>	<b>: Infineon</b>
<b>Finance Chair</b>	<b>: Kenneth Lee</b>	<b>: SMART</b>
<b>Tutorial &amp; Short Course Chair</b>	<b>: Nagarajan Raghavan</b>	<b>: SUTD</b>
<b>Exhibit / Sponsorship Chair</b>	<b>: Aaron Thean</b>	<b>: NUS</b>
<b>Publicity Chair</b>	<b>: Xiao Gong</b>	<b>: NUS</b>
<b>Publicity Vice Chair</b>	<b>: Dennis Polla</b>	<b>: A STAR</b>
<b>Publication Chair</b>	<b>: Chuan Seng Tan</b>	<b>: NTU</b>
<b>Support Relations Chair</b>	<b>: Edwin Teo</b>	<b>: NTU</b>
<b>Local Arrangements Chair</b>	<b>: Kah Wee Ang</b>	<b>: NUS</b>
<b>General Co-Chair &amp; IEEE Liaison</b>	<b>: MK Radhakrishnan</b>	<b>: NanoRel</b>
<b>Secretariat</b>	<b>: Mary Teng</b>	<b>: Atenga</b>
	<b>: Stanley Teng</b>	<b>: Atenga</b>

# EDTM 2019 Organizing Team Salutes

EDTM 2018 General Chair

**Hitoshi Wakabayashi**

&

EDTM 2018 Technical Chair

**Kazunari Ishimaru**

# Sponsorship and Exhibitions

## PLATINUM SPONSORS



## GOLD SPONSORS



## SILVER SPONSORS



## BRONZE SPONSOR



Exhibitor	Booth Number
aNexus	1
Park Systems	2
LAM Research	3
Soitec	4
Raith Nanofabrication	5
GlobalFoundries	6
CREST Innovation	7
ULVAC Singapore	8
Applied Materials	9
Atomera	10
MPI Corporation Inc	11
Tecnisco Ltd	12
National University of Singapore	13
Zeiss	14

# Banquet @ S.E.A. Aquarium, Sentosa

**Conference Banquet – 14<sup>th</sup> March 2019 evening**

## Departure to S.E.A Aquarium

Meeting point: Registration Desk at 5:50pm

Coach pick-up point: MBS Hotel Coach Bay

Time: 6pm ~ 6:25pm (5 mins interval per coach)

Registration: Starts at 7:15pm at the entrance to the Maritime Experiential Museum

Banquet Dinner: Starts at 8pm

**All guests are reminded to wear lanyards and bring banquet coupons to exchange for wristbands to enter the museum.**

## Returning to Marina Bay Sands

Coach pick-up point: RWS Coach Bay

Time: 9:30pm ~ 10:20pm (10 mins interval per coach)

## **Resorts World Sentosa, S.E.A. Aquarium**

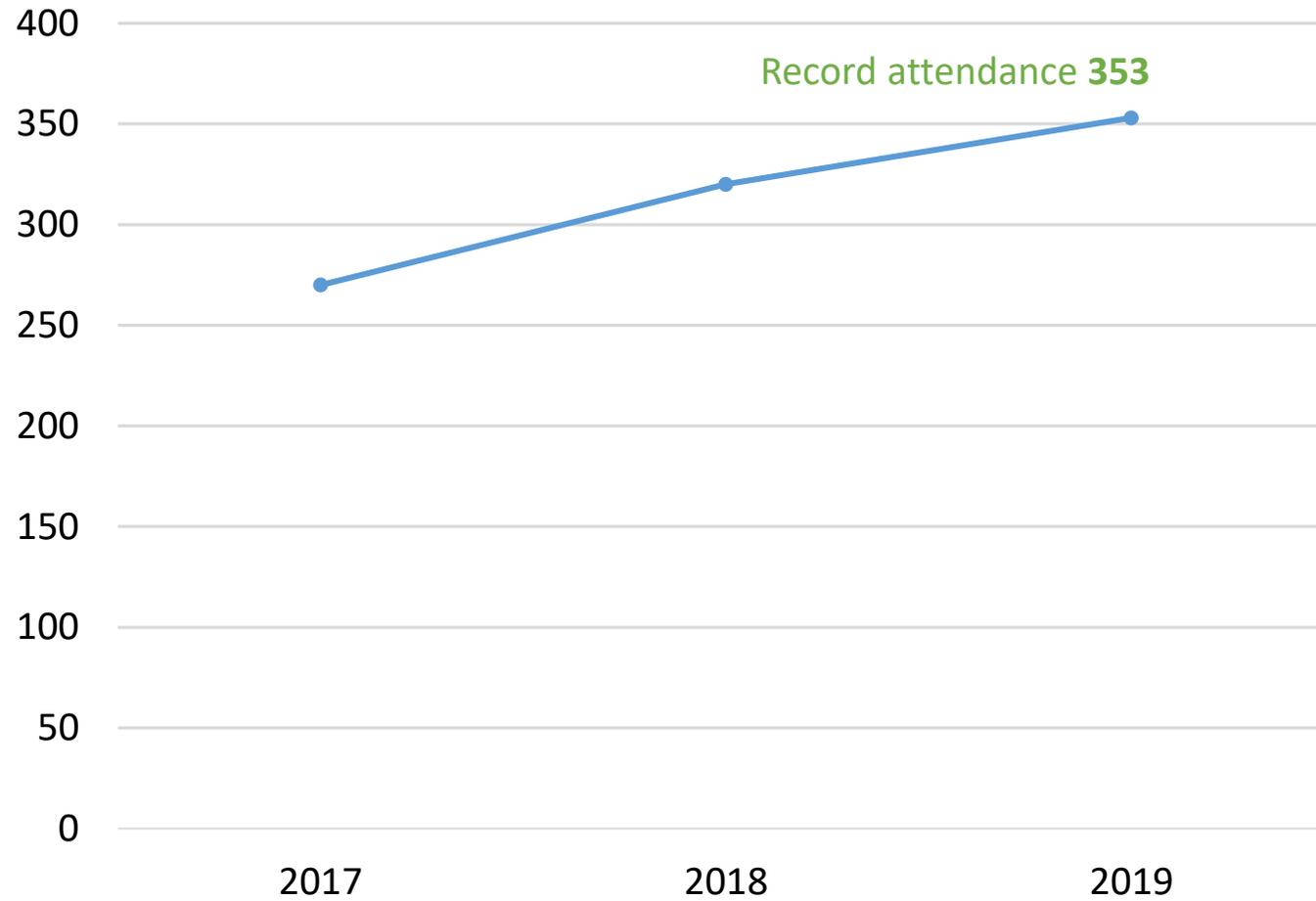
8 Sentosa Gateway, Sentosa Island

Singapore 098269.

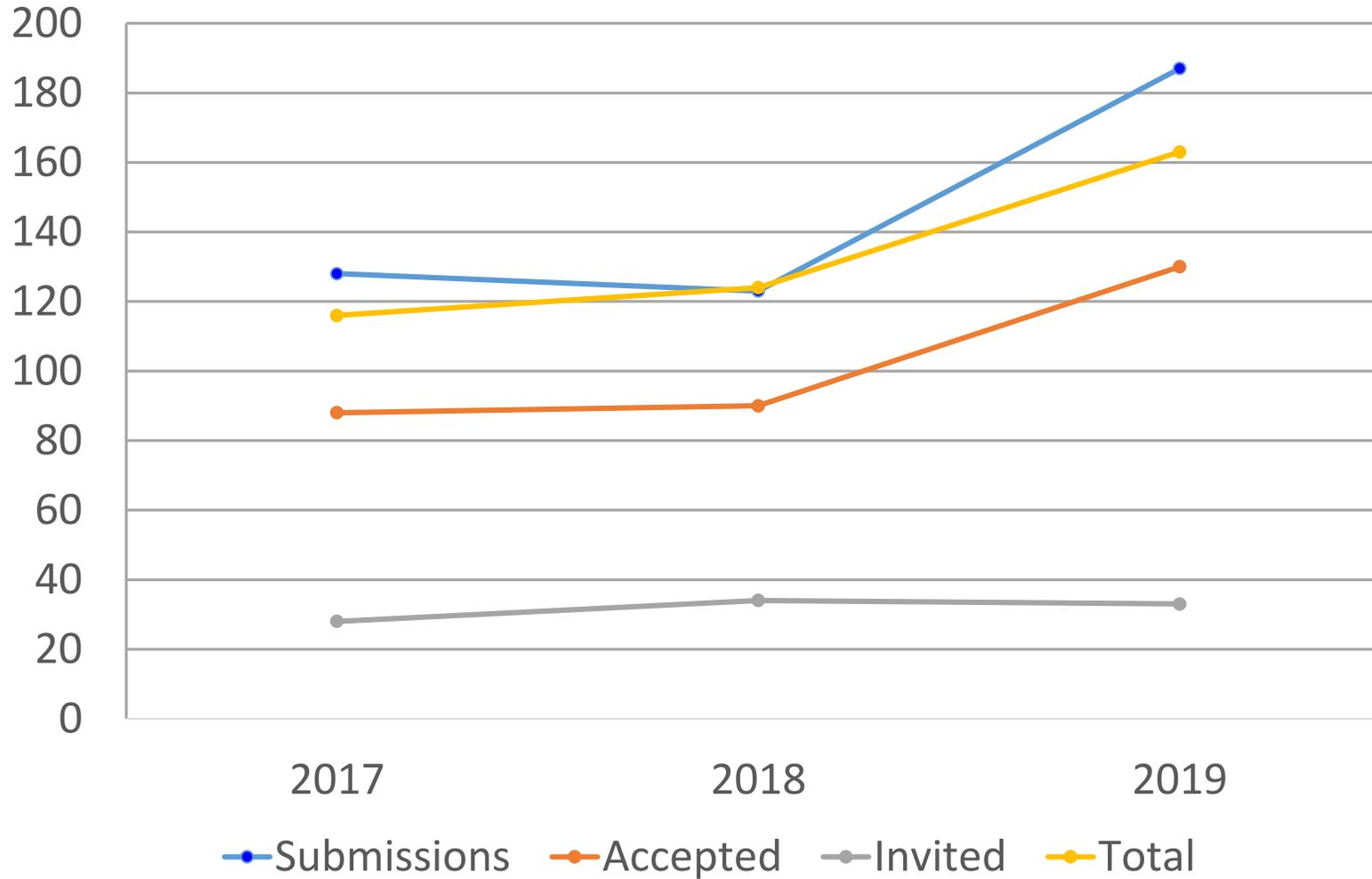




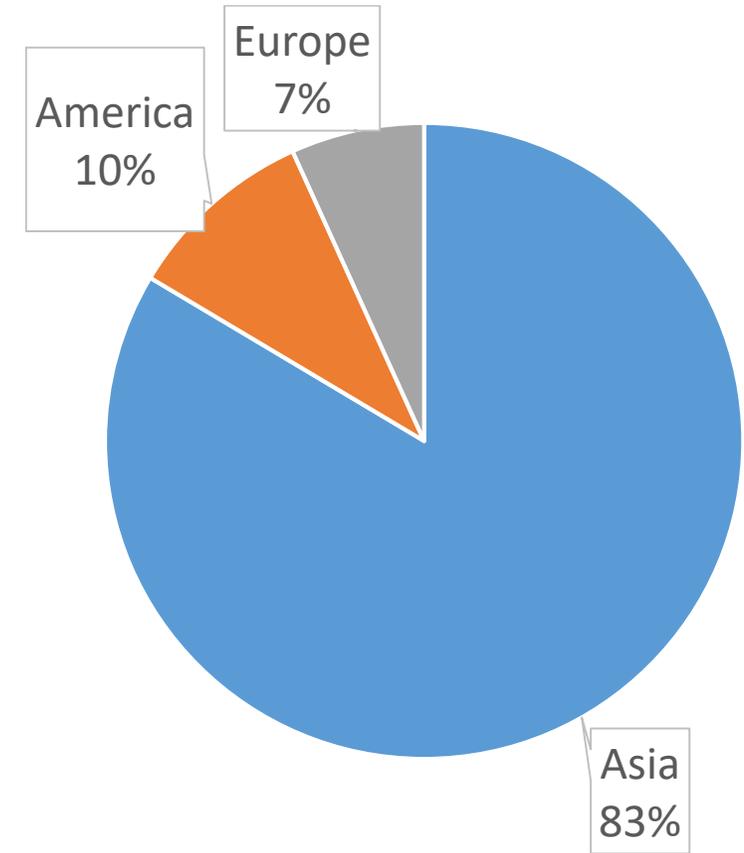
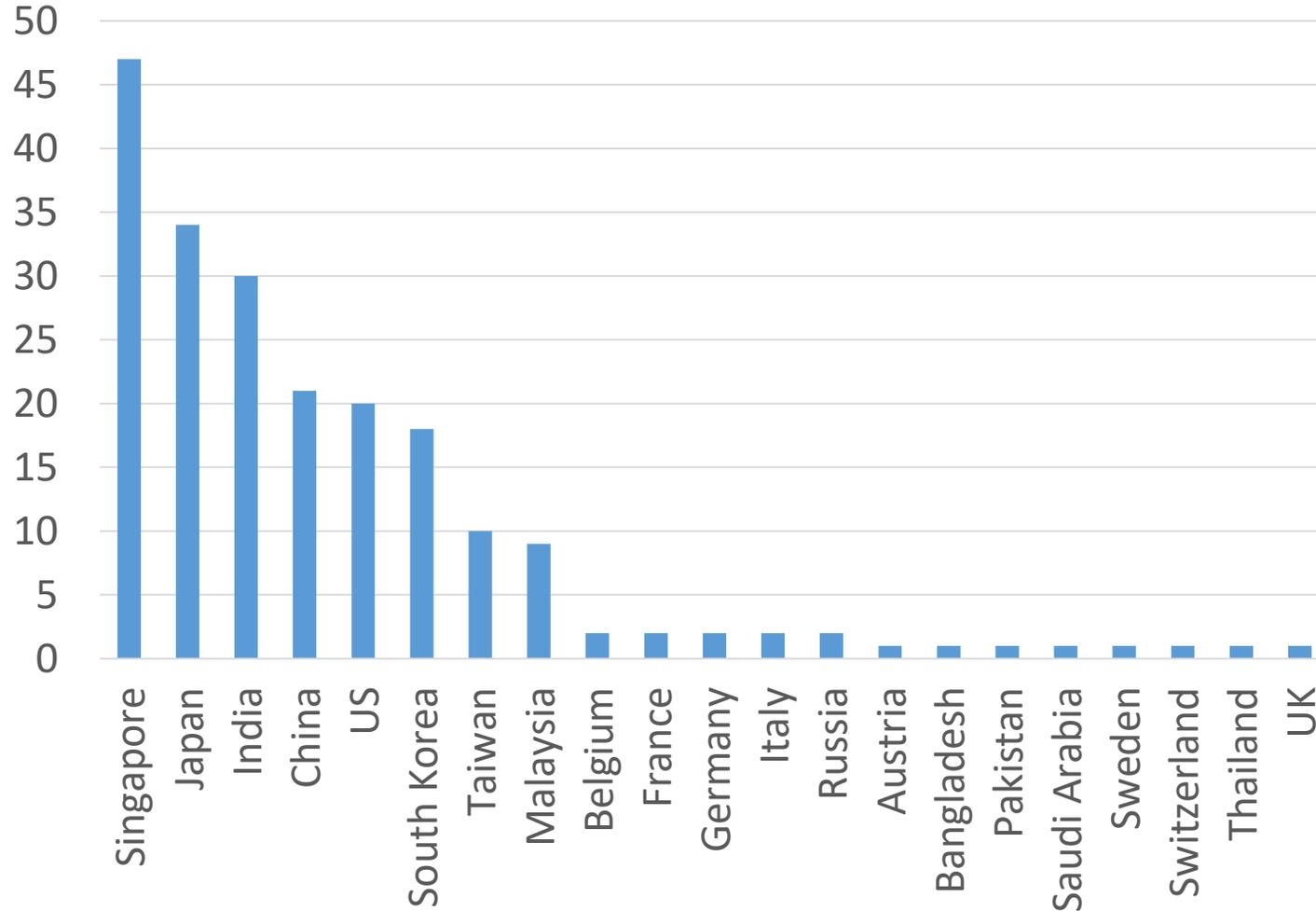
# Growth in attendance



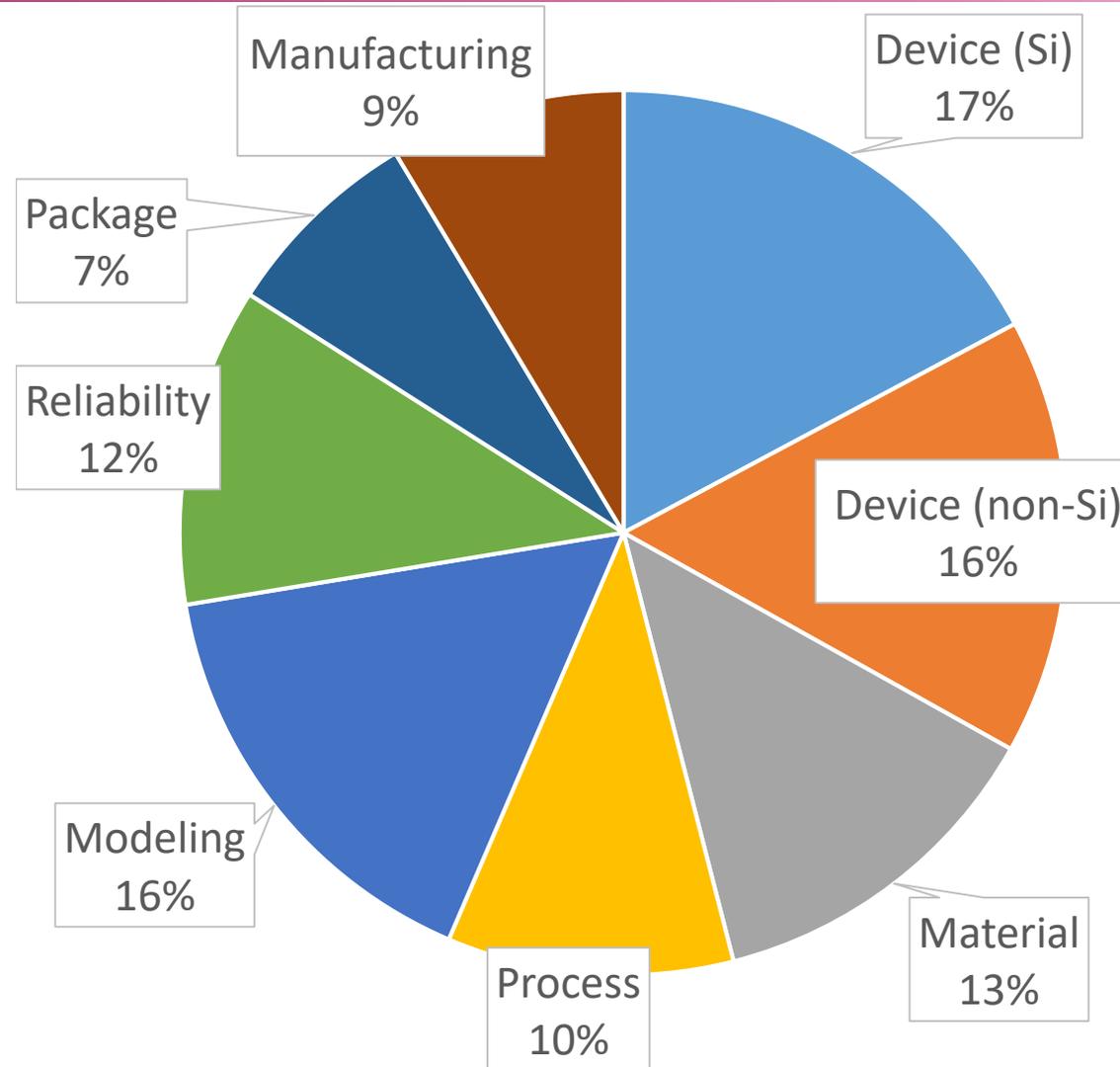
# Growth in paper submissions



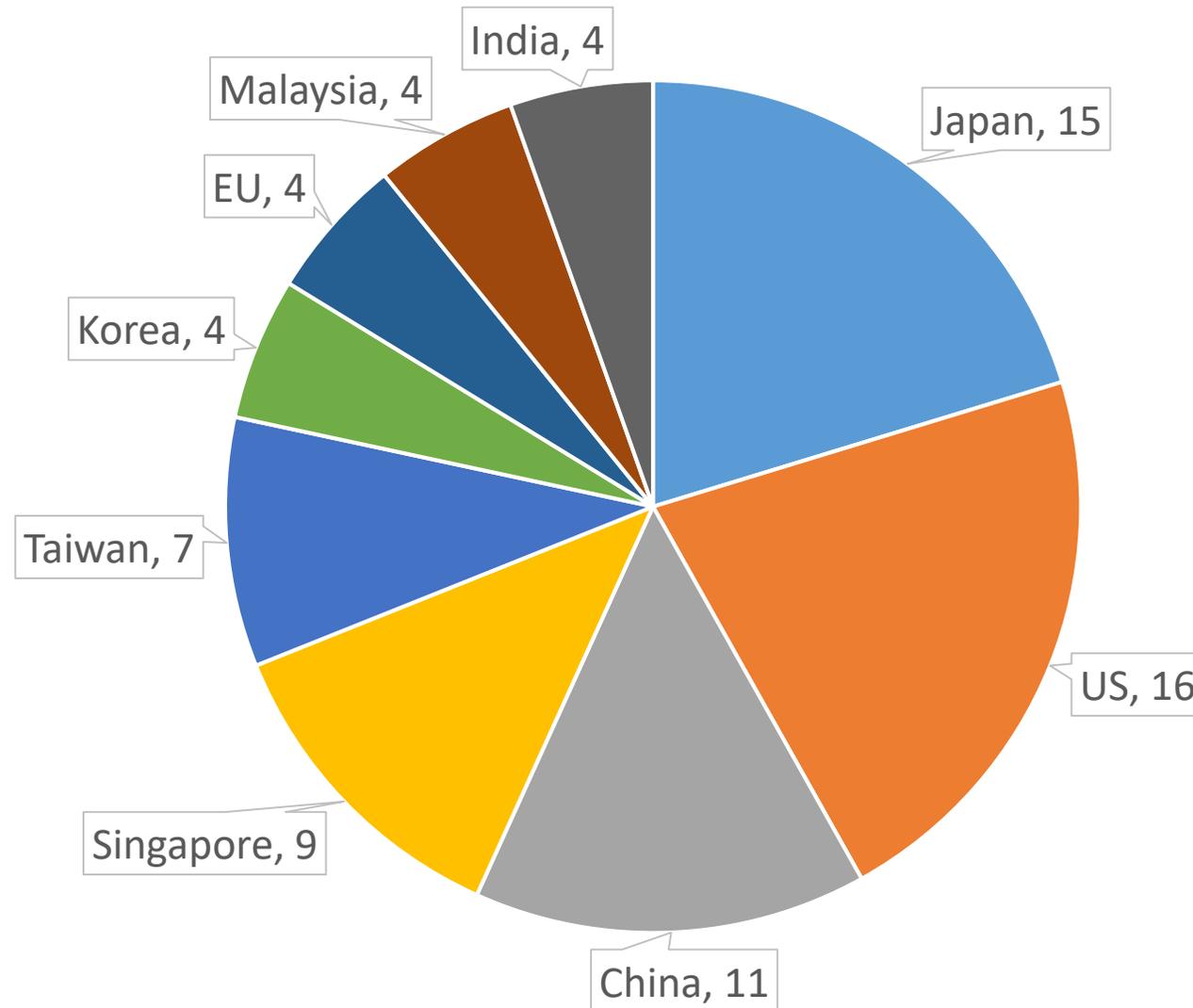
# Paper submissions by country/region



# Increasing balance among tracks



# Increasing geographic diversity of TPC



# Instructions for oral presentations

- Presenters will preferably bring their files on a USB drive and use the conference laptop in the breakout room. Only MS PowerPoint and PDF formats are supported.
- Alternatively, presenters may use their own laptop.
- Before the session, all presenters should check their presentation with the computer equipment in the actual breakout room
- Be in the session room at least 15 minutes prior to your session so that you can make a short preparation with your session chairs
- The total time allowance is 25 minutes: 20 for presentation, 5 for Q&A

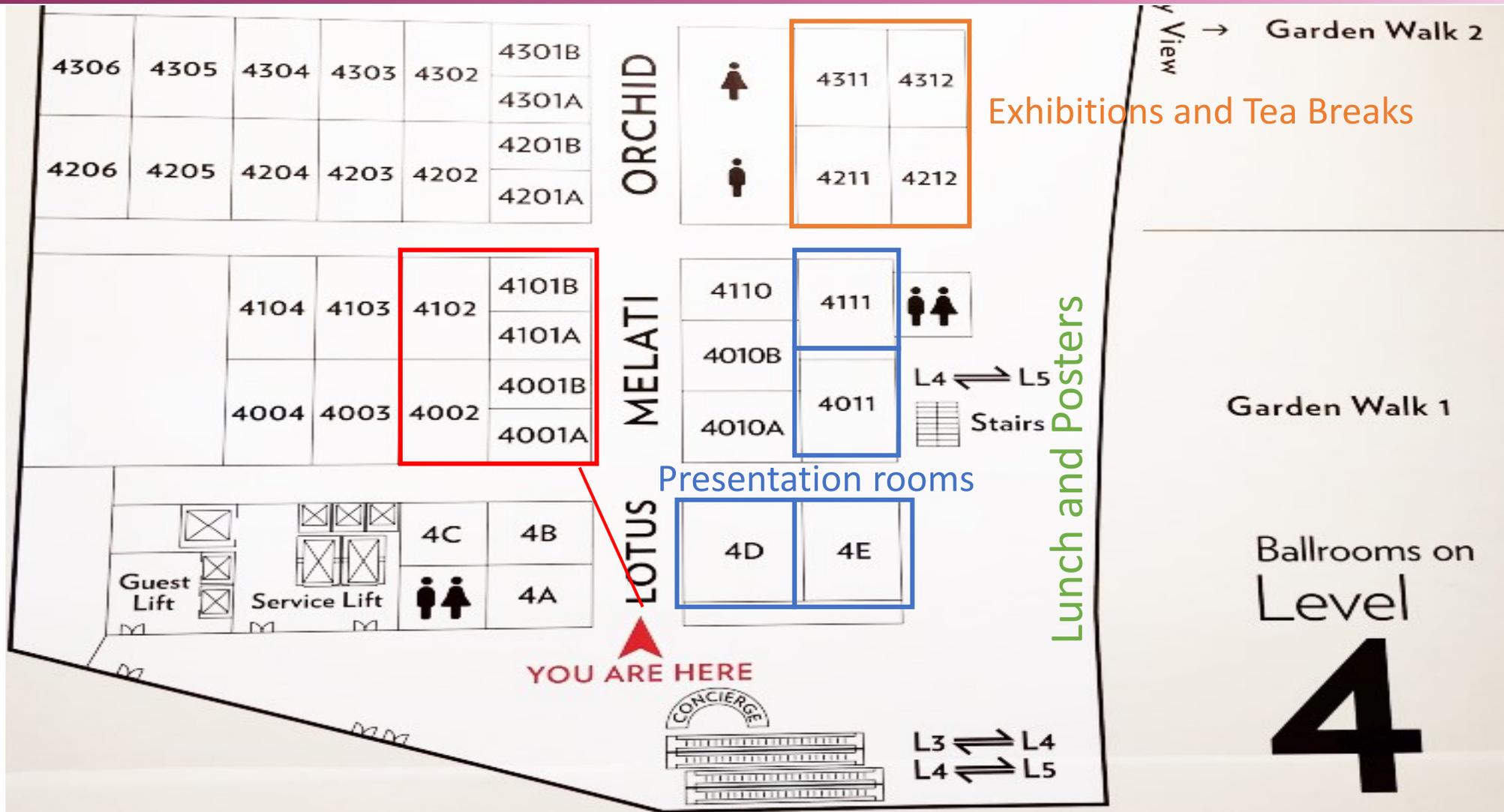
# Instructions for poster presentations

- Set-up posters March 13<sup>th</sup> between 09:00 - 16:00
- Presentation of posters March 14<sup>th</sup> 15:15 - 17:30 (arrive at least 10min early)
- Removal of posters March 15<sup>th</sup> 13:30 - 15:00

## Best poster award

- EDTM tradition to recognize outstanding poster presentation
- Certificate and monetary award, given at the closing ceremony
- Selected by a panel of TPC members
- Grading based on Presentation, Technical achievement, Impact of work, ability to explain and answer questions

# Facility map



# 4<sup>th</sup> Electron Devices Technology and Manufacturing (EDTM) Conference 2020



*Hotel Equatorial, Penang, Malaysia*

March 16<sup>th</sup> to March 18<sup>th</sup>, 2020

**Venue:** *Hotel Equatorial*, Penang, Malaysia



**Date:** March 16<sup>th</sup> to March 18<sup>th</sup>, 2020

**Pre-Conference Tutorials/Short Courses:**  
March 15<sup>th</sup>, 2020

**Paper submission deadline:** September 27<sup>th</sup>  
2019

## Topics for EDTM 2020

- Materials
- Process, Tools, and Manufacturing
- Devices & Smart Systems, for Internet of Things (IoT)
- Modeling and Simulation
- Reliability
- Packaging and Heterogeneous Integration
- Manufacturing Yield
- Emerging Photonics, Bio-photonics, and Optoelectronics Technologies
- Artificial Intelligence (AI) and Machine Learning

Website: <https://ewh.ieee.org/conf/edtm/2020/>