

# **Welcome to ASQN 2019 Conference - Asian Software Quality Network -**

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ASQN 2019 Conference in Tokyo, Japan  
September 10th, 2019

# ASQN Objectives

- 1. Share our knowledge and experiences** on empirical methods, techniques and practices for pursuing excellent software quality.
- 2. Provide opportunities** for software organizations, practitioners and researchers to appeal their excellent outcomes, capability and competencies on software quality to Asia.
- 3. Show the Asian voice** and increase the awareness of Asia in the world.

# ASQN

## History of sharing software quality experiences in Asia



Kuala Lumpur, Malaysia (2013)



JEJU, Korea (2016)



Shanghai, China (2014)



Kuala Lumpur, Malaysia (2017)



Tokyo, Japan (2019)



Tokyo, Japan (2015)



Beijing, China (2018)



# Software Quality Symposium in Japan

- The **36**<sup>rd</sup> annual events
- **800** people from **300** companies
- Keynote on **IoT**
- Panel on **Digital Transformation**
- **40+** presentations
- **9** tutorials, **250** participants
  - SW process improvement
  - SW measurement
  - frontloading
  - Requirements specification techniques
  - SW release judgement method
  - UX design, etc



# ASQN Organization

<b>China</b>	SSIA (Shanghai Software Industry Association)
<b>Korea</b>	K.SEN (Korea Software Engineering Network)
<b>Malaysia</b>	MSTB (Malaysia Software Testing Board)
<b>Philippines</b>	PSIA (Philippines Software Industry Association )
<b>Thailand</b>	SWPT (Software Park Thailand)
<b>Japan</b>	JUSE SQiP (Software Quality Profession) 日本科学技術連盟 SQiPソフトウェア品質委員会

# Today's Presentations



## **The Trend of China's Software Industry Development**

**Yang Genxing,**

East China University of Science and Technology, China



## **Software Process Metrics**

**Halizawati MOHD HALID,**

Custommedia Sdn Bhd, Malaysia



## **Suggestion of Testing Method for Industrial Level**

**Cyber-Physical System**

**Sunil Chon,** ThinkforBL, Korea



## **Guidelines of Quality Assurance for Artificial-Intelligence-based products and services (QA4AI)**

**Yasuharu Nishi,**

The University of Electro-Communications, Japan



## **Consideration for SW quality Factor in the era of industry 4.0**

**Yong Gyu Kim,** Apexsoft, Korea



## **Quantifying Confidence Using Metrics – an IV&V Perspective**

**Amiruddin Jaafar Sidek,**

Malaysian Software Testing Board, Malaysia

# IT Trends in Japan

- Recent IT words: AI, IoT, CPS, DX (Digital transformation), etc  
 “2025 cliff (2025年の崖)” in METI DX report (2018)  
 - Industries well understand the importance of digital transformation



The screenshot shows the top portion of a web page from Global Finance. The header includes the logo 'GLOBAL FINANCE' and the tagline 'Global news and insight for corporate financial professionals'. Navigation links include 'Register / Log In', 'Advertise', 'Current Issue +', and a search bar. A horizontal menu below the header has five items: 'TOPICS', 'THE MAGAZINE' (highlighted in red), 'AWARDS & RANKINGS', 'GLOBAL DATA', and 'MULTIMEDIA'. Below the menu, the breadcrumb trail reads 'The Magazine > October 2018 > World's Best Banks 2018: DBS Named Best Bank In The World' and the date 'Thursday, August 29, 2019'. The main headline is 'World's Best Banks 2018: DBS Named Best Bank In The World'. The text below the headline states: 'Winners in the World's Best Banks Awards 2018 were selected based on performance over the past year as well as other criteria including reputation, management excellence, and leadership in digital transformation. DBS Bank took the title on the strength of its digital transformation, strong financials, and good corporate citizenship.'

# IT Trends in Japan

- Recent IT words: AI, IoT, CPS, DX (Digital transformation), etc  
 “2025 cliff (2025年の崖)” in METI DX report (2018)
  - Industries well understand the importance of digital transformation
  - Facing difficulties to allocate IT resources on “value-up” investments because of **complex and black-boxed existing legacy systems**
  - If the industries can not overcome the issues until 2025, 12 trillion JPY (112 billion USD) economical lost will happen as maximum.
- Rapid growth of smartphone payment services

- 2014 Dec. LINE Pay
- 2016 May Origami Pay
- 2016 Oct. Rakuten Pay
- 2018 Apr. dPay (NTT DoCoMo)
- 2018 Oct. PayPay (softbank & yahoo)
- 2019 Feb. Merpay (mercari)
- 2019 Apr. auPAY
- 2019 Jul. FamiPay, 7pay

7pay shut down after 4 days in wake of **security misstep**





“Software quality” is an important infrastructure of our societies.

Sharing and learning the experiences and knowledge on software quality among software professional communities (both domestic and international) is essential to pursue our safe and secure society.

**ASQN plays an important role to achieve the goals.**

Thank you for your attention!

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감사합니다

Terima kasih

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ありがとうございました