



# THE CONFERENCE ON THE EMERGING TECHNOLOGIES THAT MATTER

Marina Bay Sands Expo and Convention Centre, Singapore  
30 – 31 January 2018



Host Partner



Organised by



## EVENT SUMMARY



## EmTech Asia 2018: Where Technology, Business and Innovation Collide

The fifth edition of EmTech Asia, **co-organised by MIT Technology Review and Koelnmesse, and hosted by the Infocomm Media Development Authority (IMDA)** concluded on a high note after two days of stimulating and insightful discussions on the latest breakthroughs in science and technology.

Held from 30 to 31 January at the Marina Bay Sands Expo and Convention Centre, EmTech Asia was attended by over 700 like-minded individuals from 21 countries. This year's line-up of speakers included some of the brightest minds in the areas of artificial intelligence, quantum computing, robotics, automation, future cities, space and aerospace innovation, augmented and virtual reality, and precision medicine.

Bringing together an inspiring line up of 46 world leading scientists, entrepreneurs, investors and innovators, EmTech Asia featured speakers from Airbus, Google Deepmind, Hyperloop One, MIT, NVIDIA, Sony, SpaceX, among many. Highlights included Vivienne Ming's – one of Inc. Magazine's "Top 10 Women to Watch in Tech" - inspiring presentation on the effect of systemic bias and advancements in AI on human capital and Shana Diez from SpaceX, who enthralled the audience with exclusive insights into SpaceX's reusable rocket technology and the company's plans to colonise Mars.

For the fifth year, EmTech Asia featured the regional Innovators Under 35 Asia honourees. Selected by a distinguished panel of judges, 10 young innovators under the age of 35 presented a three-minute elevator pitch on the EmTech stage. Their inventions and research were found to be most ground-breaking and exciting from a regional list of nominations.

**EmTech Asia returns to Singapore in January 2019. Visit [www.emtechasia.com](http://www.emtechasia.com) and follow us on Twitter, Facebook and Instagram @EmTechAsia**

### FAST FACTS

**761**



Participants

**23** Countries

**36** Speakers

**10** Innovators Under 35

**30** Partners and Sponsors

**44** Members of the Press

## AUDIENCE

761  Attendees

30 Partners  
& Sponsors

## Companies

- A\*STAR
- A\*STAR CRC
- ABeam Consulting Ltd
- Accounting & Corporate Regulatory Authority
- Acronis
- AIDA Technologies Pte Ltd
- Airbus Group
- Aitreat Pte. Ltd.
- Alibaba AI Labs
- AmCham Singapore
- Anacle
- Analog Devices
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- Asian Scientist Magazine
- Asia-Pacific Biotech News
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- Astraltec Pte Ltd
- Aurecon
- Ausland Global Pty Ltd
- Australian Centre for Robotic Vision
- Autodesk Asia Pte Ltd
- Autumn Compass
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- Aviva Ventures
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- Banpu Infinergy Co., Ltd
- BANSEA
- Blue Lab Innovation Pte Ltd
- Blume Ventures
- Break Off Capital
- BSE Space
- Building and Construction Authority
- Cambridge Industries Group
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- Centre for Quantum Technologies
- Centre Kidney Disease & Hypertension
- CIO Academy Asia
- City University of Hong Kong
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- CLINICAL Inc
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- ConvergenceAsia
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- Cradle Seed Ventures
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- Crely Inc.
- CSA Group
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- Data Storage Institute, A\*STAR
- DayTwo
- DeepMind
- Defence Science and Technology Agency
- Discovery Channel
- DSI
- DSO National Laboratories
- DSTA
- Dynavolt Renewable Energy Technology Co., LTD.
- eBay Asia Pacific
- EEE, NTU
- Elixir Services
- Energy Market Authority
- Eutema Technology Management
- Evie.ai
- Exploit Technologies Pte Ltd
- ExxonMobil
- ExxonMobil Asia Pacific Pte Ltd
- ExxonMobil PNG
- Forbes
- Fujita Corporation
- Fujita Research
- Fulldome.pro Co. Ltd.
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- Georgia Tech
- GGV Capital
- Giatmara Sendirian Berhad
- GIC Private Equity
- GIC Pte Ltd
- Gilmour Space Technologies
- GlaxoSmithKline
- Global Fusion Capital Pte Ltd
- Global Mindset & VRAR Association
- GLOBALFOUNDRIES Singapore
- Gobi Management Pte Ltd
- Golden Equator
- Golden Gate Ventures
- Google
- Google Cloud
- Google Deepmind
- Government of Singapore Investment Corporation
- Government Technology Agency
- Griffith University
- GTF Investment
- Healid.io
- Hong Kong Baptist University
- Hong Kong Trade Development Council
- HTC Vive
- HubSpot
- Huffington Post
- Hyperloop One
- ID Quantique
- IEEE Technology and Engineering Management Society (TEMS)
- IMRE, A\*STAR
- Inc. Southeast Asia
- Incuvest
- Indian Angels Network
- Indian Institute of Science (IISc)
- Indian Institute of Technology Delhi
- Info-communications Media Development Authority (IMDA)
- Innovation Australia
- INSEAD
- Institute of High Performance Computing
- Institute of Materials Research & Engineering
- Ivaldi Capital Pte Ltd
- Johnson & Johnson
- JPMorgan Asset Management
- Kadence International
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- Land Transport Authority
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- Lee Kong Chian School of Medicine
- Lemnis Technologies
- Lendlease
- Li & Fung
- Malaysia Debt Ventures Bhd
- Malaysia Digital Economy Corporation Sdn Bhd
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- Malaysian Technology Development Corporation (MTDC)
- Maybank Investment Bank Berhad
- McGovern Institute, MIT
- MelLife Innovation Centre Pte Ltd
- Ministry of Home Affairs
- Ministry of Manpower
- Ministry of Trade & Industry
- Mirxes
- MIT
- MIT Technology Review
- MoneyFM 89.3
- MOSTI
- Nanyang Polytechnic
- National Metrology Centre
- National Research Foundation
- National University of Singapore
- National University of Singapore / A\*STAR
- NCS Pte Ltd
- NeuroMem Technologies Pte Ltd
- Nexia TS
- Ngee Ann Polytechnic
- Nikkei Group Asia Pte Ltd
- Nomura Research Institute
- Northwestern University
- NTU
- NTUitive
- NVIDIA
- NYU SHANGHAI
- OCBC Bank
- OpenGov Asia/ CIO Network Pte Ltd
- Petronas Research Sdn Bhd
- Platform E
- Powerhouse
- Procter & Gamble
- Property Ltd
- PropertyGuru Group
- PT. AGC Corporate
- Public Utilities Board
- Pylon City Pte Ltd
- Rakuten Viki
- Republic of Singapore Air Force
- Republic Polytechnic
- ResMed Ltd
- Resort World Sentosa (RWS)
- Rolls-Royce Singapore Pte Ltd
- Royal Holloway University of London
- RPA Holdings
- S&J Asia-Pacific Ventures Pte Ltd
- Sairdrome
- School of Physical & Mathematical Sciences, Nanyang Technological University
- Science & Engineering Research Council
- Science and Engineering Institutes
- Science Centre Singapore
- Senoko
- Sense Infosys
- Sentosa Development Corporation
- SGInnovate
- SGTech
- Silicon Solution Partners Pte Ltd
- Silicon Valley Bank
- SIM Platform E
- Simha Innovations Pte Ltd
- Singapore Civil Defence Force
- Singapore Institute of Technology
- Singapore Management University
- Singapore National Eye Centre
- Singapore Police Force
- Singapore Press Holdings
- Singapore Red Cross Society
- Singapore Space and Technology Association
- Singapore Tourism Board
- Singapore University of Technology and Design
- Singapore-ETH Centre
- Singapore-MIT Alliance for Research and Technology
- SingTel
- Socos
- Solmark
- Sony Computer Science Laboratories
- SpaceX
- Sparke Helmore Lawyers
- SPECTRUM
- SPRING Singapore
- ST Aerospace Engines Pte Ltd
- Stena Investment Singapore
- Stream Global
- Tan Tock Seng Hospital
- Tata Communications
- Tech in Asia / Tech Wire Asia
- Temasek Foundation
- Temasek Foundation Ecosperity CLG Limited
- Temasek Life Sciences Laboratory Limited
- Tencent America LLC
- Tencent, AI Lab
- The Chinese University of Hong Kong
- The Institution of Engineers, Singapore
- The Times of India Group
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- Titan Capital Pte Ltd
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- Toll Global Logistics
- Tookitaki
- Trace Genomics
- Trakomatic
- Transcelestial Technologies
- Transit Link
- Tricog Health
- Tychan Pte. Ltd
- UBS
- Uilicious Private Limited
- Unity Technologies
- University of Adelaide
- Urban Redevelopment Authority
- VersaFleet Pte Ltd
- Vickers Capital
- Willowbridge Capital Pte Ltd
- Workforce Singapore
- Yale-NUS College
- YITU Tech
- YTL Communication Sdn Bhd

... and many more!

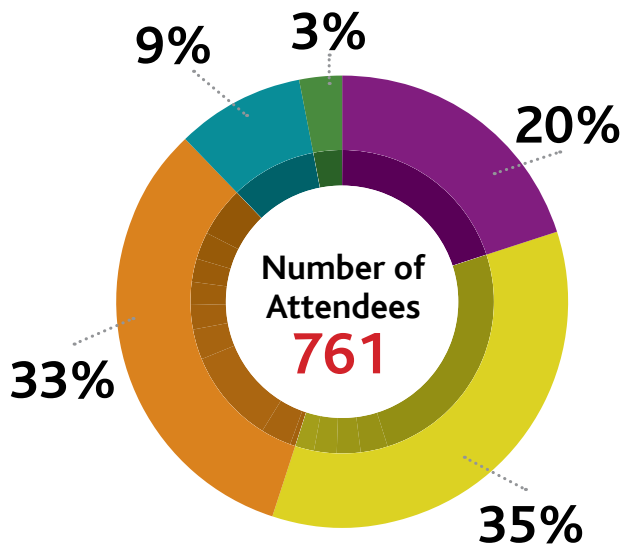
# AUDIENCE



## 23 Countries

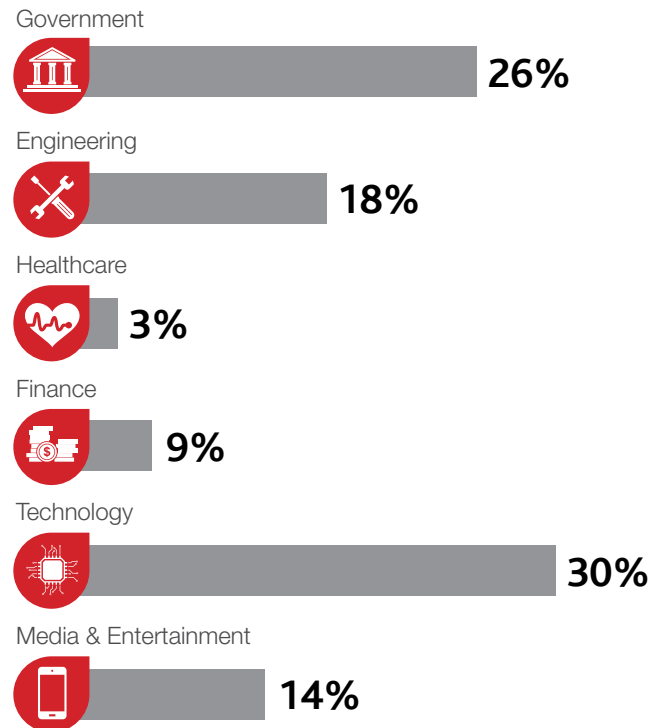
- Australia
- Austria
- Bangladesh
- Belgium
- China
- France
- Hong Kong SAR
- India
- Indonesia
- Iran
- Israel
- Japan
- Malaysia
- Papua New Guinea
- Philippines
- Singapore
- Sweden
- Switzerland
- Taiwan
- Thailand
- United Kingdom
- United States
- Vietnam

## Seniority of Participants



- President / C-level / Managing Director
- Director / Vice President / General Manager
- Government / Government Agencies' Officials
- Managers / Researchers
- Consultants

## Sectors At-A-Glance



## Growth of Attendees for the Last 3 Editions





## INNOVATORS UNDER 35



## Recognising the Next Wave of Young Innovators

MIT Technology Review has been recognising the top young innovators under the age of 35 since 1999. Today, the Innovators Under 35 competition runs in several regions globally, including Asia-Pacific. The regional Innovators Under 35 competition is open to citizens or residents (including students) of **Southeast Asia, Hong Kong, Taiwan, Australia and New Zealand** from a wide range of fields, including biomedicine, computing, hardware, telecommunications, energy, materials, web and transportation. 10 honourees were selected by an esteemed panel of judges and were honoured at EmTech Asia where each delivered a three minutes elevator pitch. MIT Technology Review also showcases the regional honourees at [www.innovatorsunder35.com](http://www.innovatorsunder35.com)



**SAVE THE DATE**

Nominations open in April 2018. All nominations must be submitted online at [www.emtech.sg/tr35/nominate/](http://www.emtech.sg/tr35/nominate/)

Email [emtech@koelnmesse.com.sg](mailto:emtech@koelnmesse.com.sg) for more information.



**Yok Hian Chionh**  
Assistant Director  
Tychan Pte Ltd



**Jiashi Feng**  
Assistant Professor  
National University of Singapore



**Weibo Gao**  
Nanyang Assistant Professor,  
School of Physical and  
Mathematical Science  
Nanyang Technological  
University



**Chun-Hao Huang**  
Cofounder and CEO  
CLINICAL Inc



**Anjali Jaiprakash**  
Advance Queensland Research  
Fellow  
Queensland University of  
Technology



**Bee Luan Khoo**  
Senior Post-Doctoral Research  
Associate  
Singapore MIT Alliance for  
Research and Technology  
(SMART)



**Ajay Giri Prakash Kottapalli**  
Research Scientist  
Singapore MIT Alliance for  
Research and Technology  
(SMART)



**Qilin Wang**  
ARC DECRA Fellow & Lecturer  
Griffith University



**Min Hao Wong**  
Candidate for PhD in Chemical  
Engineering  
Massachusetts Institute of  
Technology



**Wesley Zheng Guangyuan**  
Scientist, Institute of Materials  
Research and Engineering  
A\*STAR

“It was a great honour to be one of the MIT Technology Review Innovators Under 35 Asia Pacific. The EmTech Asia conference provided me with a fantastic platform to share my work and establish new collaborations.”

**Qilin Wang**  
ARC DECRA Fellow & Lecturer  
Griffith University

MIT Technology Review  
**INNOVATORS UNDER 35 ASIA PACIFIC**

## TESTIMONIALS



### We asked participants what they thought about EmTech Asia 2018. Here's what they had to say:

“ Probably the best conference to get a download of the latest tech happenings. ”

**Kwok Lih, Venture Partner, Silicon Solution Partners**

“ I attend a lot of AI conferences, and EmTech Asia was great because I was able to learn what's going out outside of AI. I listened to many interesting talks ranging from global population growth to batteries or self-driving boat-probes. As a result, I came out with quite a few ideas on how AI could impact other areas that I hadn't thought of before. ”

**Oriol Vinyals, Research Scientist, Google Deepmind**

“ I missed this event in 2017, and quite frankly I didn't expect to be blown away, but I was! This is not just deep tech, it's deep tech meets business. All presenters, the Innovators Under 35, and the various researchers who were speaking, got me excited not just about their research, but the potential for huge societal and economic impact. Well done EmTech Asia! ”

**Aditya Tuli, Vice President (Tech & Innovation), MAGIC**

“ The audacity of each project presented at EmTech Asia blew my mind and left me excited about the future. A future I literally glimpsed at during those two inspiring days. ”

**Sebastien de Halleux, COO, Sairdron Inc. Bhd**

“ A good networking forum to know new technologies and people. ”

**Kin Leong Pey, Associate Provost, Singapore University of Technology and Design**

“ EmTech offers you a great overview on relevant emerging technologies and connects to the Asian context. ”

**Katharina Lange, Executive Director, Singapore Management University**

“ Best annual event to understand and leverage latest science, technology, medical and space. ”

**Prakash Natarajan, IT BP Director, GSK**

“ I thought the EmTech Asia 2018 conference was fantastic. I have never before been to a 2-day event that covered such a wide range of cutting edge technologies from practitioners and researchers from all over the world. It made me very excited to be alive at this point in history and looking forward to all of these teams achieving results that will change humanity for the better. ”

**Adam Gilmour, CEO, Gilmour Space Technologies**

“ It is well-organised. The speakers are of very high quality and knowledgeable in their respective field. ”

**Connie Ng, Administrative Officer, City University of Hong Kong**

“ Excellent opportunity to know about where the world is going in terms of technology. ”

**Tijo Thayil, Group Manager (Robotics), ARTC (A\*STAR)**

“ A good platform to get insight on some of the latest technology and organization behind them and networking opportunities. ”

**Bill Liu, Chairman & Managing Partner, Stream Global Pte Ltd**

“ Being an Innovator Under 35 honouree has given me a great platform to network and understand how to get technologies to market. It's absolutely wonderful to meet inspiring and successful people that are making an impact in this ever-changing world. ”

**Anjali Jaiprakash, Advance Queensland Research Fellow, Queensland University of Technology**

“ This isn't only an event for the Tech & Science people. The topics are interesting, and all the speakers made it really easy for a non-expert to understand. Intriguing! I look forward to 2019 EmTech Asia. ”

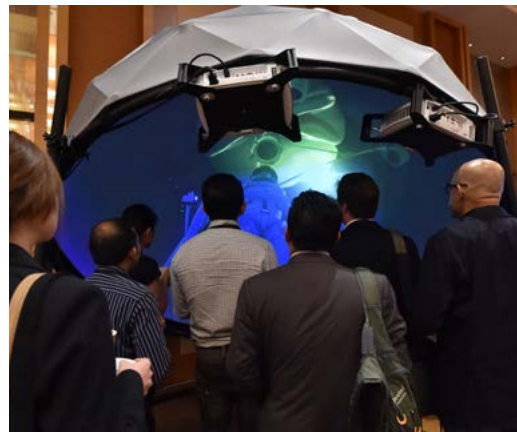
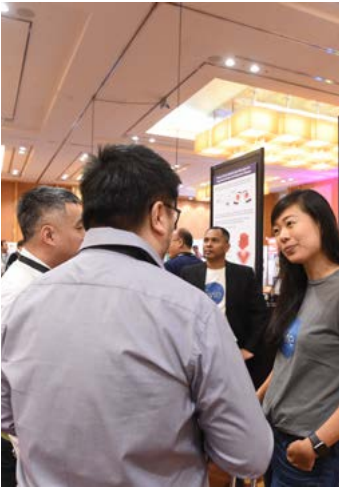
**Candy Eevie Yeo, Events & Programs Executive, SMART**

“ Awesome spread and diverse topics on emerging trends! ”

**Freda Lim, Scientist III, Institute of High Performance Computing, A\*STAR**



# EVENT HIGHLIGHTS



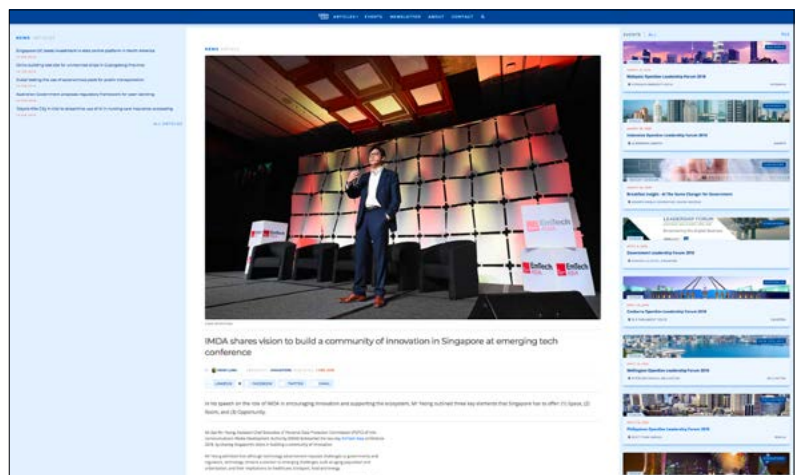
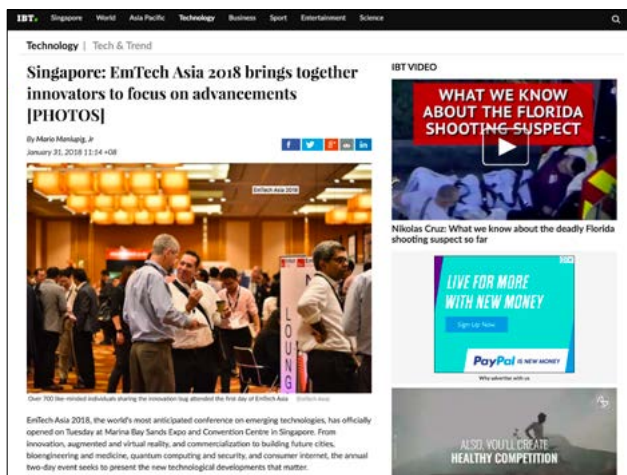
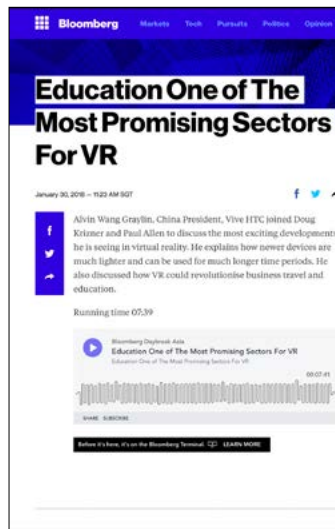
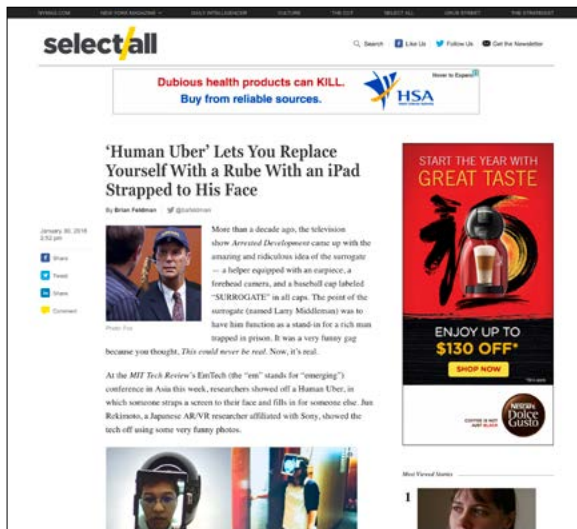


# PRESS COVERAGE



44 media outlets attended EmTech Asia including BBC, CNBC, CNN, Forbes, Inc, MIT Technology Review, Tech in Asia, The Times of India, Thomson Reuters, and many more.

EmTech Asia received excellent media coverage from leading local and international media outlets. Some of the features and articles include:





## SPEAKERS



## The Spirit of EmTech

What happens when the brightest minds in artificial intelligence, materials science, biomedicine, computing and space come together from around the world to share breakthrough research and discoveries? What happens when the best from academia and industry collaborate? What happens when scientists with the capability to change the world work with investors to commercialize ideas and tech executives to distribute it globally? **Amazing things happen.**

### EMCEES & MODERATORS

**Mark Shmulevich**  
Chief Strategy Officer  
Acronis

**Steven Tucker**  
Chief Medical Officer, **CXA Group**  
Founder, **Tucker Medical**

**Mike North**  
Host  
**Discovery Channel**

**Will Knight**  
Senior Editor for AI  
**MIT Technology Review**

**Jonathan Hung**  
President  
**Singapore Space and  
Technology Association**

### VISIONARIES

**Zee Kin Yeong**  
Assistant Chief Executive  
**Infocomm Media Development  
Authority**

**Steve Leonard**  
Founding CEO  
**SGInnovate**

### FUTURE CITIES

**Paul Smith**  
Global Field Operations Manager  
**Hyperloop One**

**Gerhard Schmitt**  
Founding Director  
**Singapore-ETH Centre**

### REWRITING LIFE

**Yuval Ofek**  
Cofounder and Chairman  
**DayTwo**

**Peter Dedon**  
Underwood-Prescott Professor of  
Biological Engineering  
**MIT**

**Diane Wu**  
Cofounder  
**Trace Genomics**

**Zainul Charbiwala**  
Cofounder and CTO  
**Tricog Health**

### WORLD OF IMMERSIVE MEDIA

**Alvin Wang Graylin**  
China Regional President of Vive  
**HTC**

**Jun Rekimoto**  
Deputy Director  
**Sony Computer Science  
Laboratories**

**Brett Bibby**  
VP of Engineering  
**Unity Technologies**

### FUTURE OF WORK

**Michael Condry**  
President  
**IEEE Technology and  
Engineering Management  
Society (TEMS)**

**Vivienne Ming**  
CoFounder and Managing  
Partner  
**Socos**

### INVESTORS

**Hans Tung**  
Managing Partner, Silicon Valley  
**GGV Capital**

### ARTIFICIAL INTELLIGENCE & ROBOTICS

**Gerald Wong**  
CEO  
**Cambridge Industries Group**

**Oriol Vinyals**  
Research Scientist  
**Google Deepmind**

**Tomaso Poggio**  
Eugene McDermott Professor, Brain  
and Cognitive Sciences  
**McGovern Institute, MIT**

**Pierre Brunswick**  
CEO  
**NeuroMem**

**Bill Dally**  
Chief Scientist  
**NVIDIA**

**Tong Zhang**  
Executive Director, AI Lab  
**Tencent**

**Shuang Wu**  
Scientist  
**Yitu Tech**

### THE 10 BILLION POPULATION CHALLENGE

**Tim Jones**  
Programme Director  
**Future Agenda**

### Don Sadoway

John F. Elliott Professor of Materials  
Chemistry  
**MIT**

**Sebastien De Halleux**  
COO  
**Saildrone**

### QUANTUM COMPUTING

**Serguei Belousov**  
Chairman and CEO  
**Acronis**

**Gregoire Ribordy**  
CEO & Vice Chairman of Board  
**ID Quantique**

**Joseph Fitzsimons**  
Assistant Professor  
**Singapore University of  
Technology and Design**

### SPACE AND AEROSPACE INNOVATION

**Olivier de Weck**  
Senior Vice President for  
Technology Planning and  
Roadmapping  
**Airbus Group**

**Adam Gilmour**  
CEO  
**Gilmour Space Technologies**

**Daniel Hastings**  
CEO and Director  
**Singapore MIT Alliance for  
Research and Technology**

**Shana Diez**  
Director of Build Reliability  
**SpaceX**

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## GET IN TOUCH



## See You in January 2019

The excitement of discovering emerging technologies and innovation continues at EmTech Asia 2019. The EmTech Asia steering committee is already working on the key themes that will be featured at the event next year so stay tuned as we uncover the list of technologies with the greatest impact to change our lives. For more information about the key themes or to suggest a speaker for inclusion in the 2019 conference programme, please contact [emtech@koelnmesse.com.sg](mailto:emtech@koelnmesse.com.sg). See you in January 2019!

### Sponsorship Opportunities

Sponsoring an event like EmTech makes a strong statement about your brand's commitment to thought leadership and ground-breaking innovation. Join us in leading the conversation with the businesses and people working on the emerging technologies that will change our lives. Contact us at [emtech@koelnmesse.com.sg](mailto:emtech@koelnmesse.com.sg) to find out more.

### Innovators Under 35

The nominations for the Innovators Under 35 Asia class of 2019 open in April 2018. All nominations (self-nomination is allowed) must be submitted online at [www.emtech.sg/tr35/nominate/](http://www.emtech.sg/tr35/nominate/). For more information on the Innovators Under 35 nomination process, please contact [emtech@koelnmesse.com.sg](mailto:emtech@koelnmesse.com.sg).

### EmTech Hong Kong

The third edition of EmTech Hong Kong will take place on 26-27 June 2018. Visit [www.emtechhk.com](http://www.emtechhk.com) or contact [emtechhk@koelnmesse.com.sg](mailto:emtechhk@koelnmesse.com.sg) for speaking opportunities, sponsorship and registration.

