

APCOM

Program Book

The 7th Asia-Pacific Congress
on Computational Mechanics

2019



17-20 Dec 2019 | Taipei, Taiwan

APCOM 2019

**The 7th Asian-Pacific Congress on
Computational Mechanics**

**17 - 20 December, 2019
Taipei, Taiwan**

Hosted by:



**Association of Computational
Mechanics Taiwan**

**APCOM 2019 - 7th Asian Pacific Congress on
Computational Mechanics Program Book**

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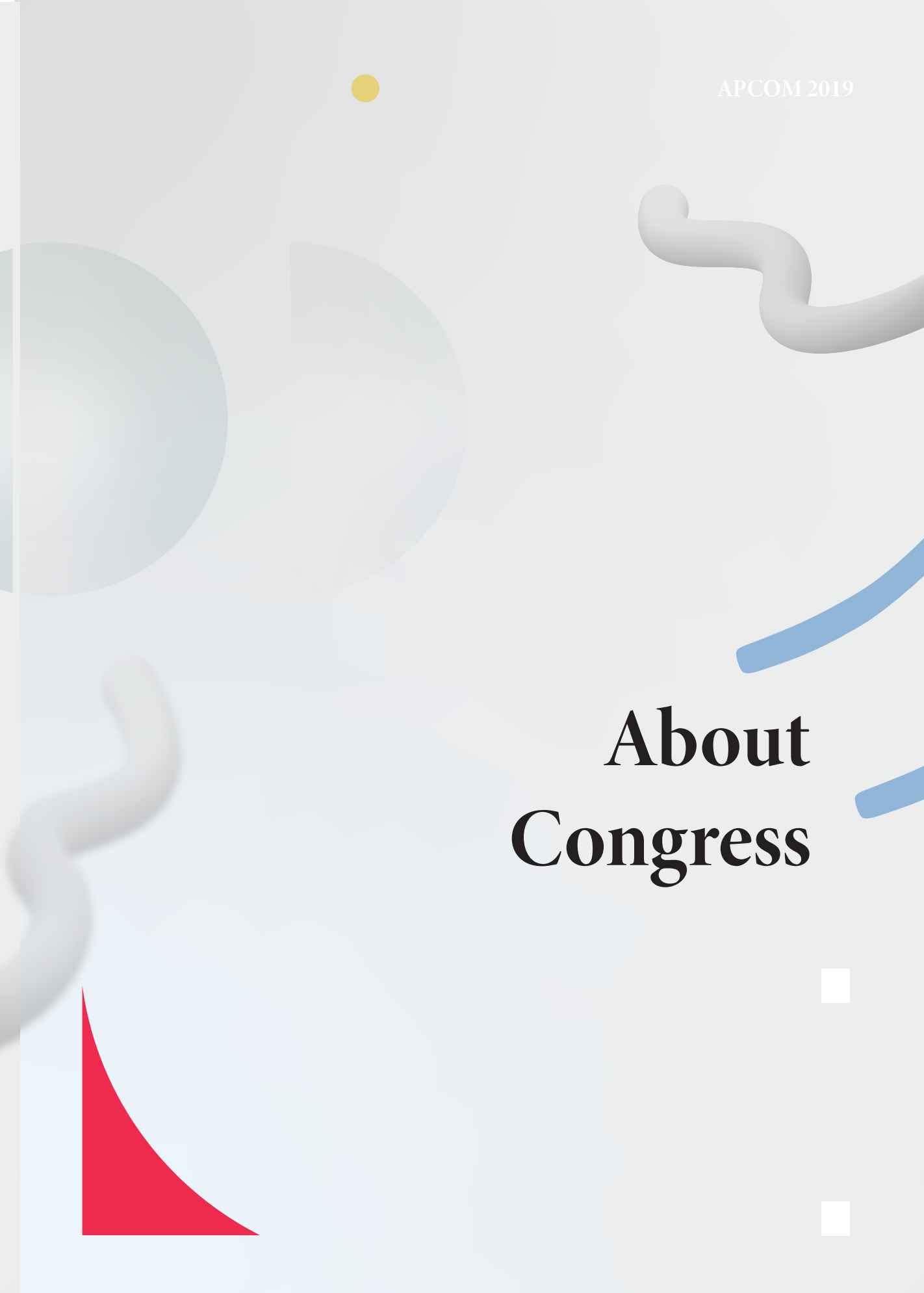
Kuan-Ting Chen

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APCOM 2019

About Congress

Program at a Glance

	Dec 17	Dec 18	Dec 19			Dec 20	
8 AM		Registraion	Registraion			Registraion	
		Opening and Award Ceremony	Plenary Talk David J. Srolovitz			Plenary Talk J. S. Chen	
Plenary Talk Herbert Mang		Plenary Talk Tayfun Tezduyar			Plenary Talk Yoon Young Kim		
Plenary Talk Wing-Kam Liu		Plenary Talk Hiroshi Okuda			Plenary Talk Qing Li		
Coffee Break		Coffee Break			Coffee Break		
11 AM		Parallel Session I	Parallel Session IV			Parallel Session VII	
12 PM		Lunch	Lunch	ACMT Meeting	JACM Meeting	Lunch	APACM GC Meeting
13 PM		Semi-Plenary Talk Ernst Rank / Antonio Huerta / You-Lin Xu	Semi-Plenary Talk Wolfgang Wall / Maenghyo Cho / Sandra Shefelbine			Semi-Plenary Talk Jeng-Tzong Chen / Andrew Chan	
	Semi-Plenary Talk Tomohiro Takaki / Gui-Rong Liu / Kengo Nakajima		Semi-Plenary Talk Chao-An Lin / Fangsen Cui / Zhao Qin			Semi-Plenary Talk Nasser Khalili / Tae Hee Lee	
14 PM	Coffee Break	Coffee Break			Coffee Break		
15 PM	APACM EC Meeting	Parallel Session II	Parallel Session V			Parallel Session VIII	
16 PM		Short Break	Short Break			Short Break	
17 PM	Registration Welcome Reception	Parallel Session III	Parallel Session VI			Parallel Session IX	
18 PM	Open Access						
19 PM							
20 PM		Banquet					
21 PM							

		101A	101B	101C	101D	102	103	105	201A	201B	201C	201D	201E	201F	202	203A	3F South	3F North	4F Joy	4F Elegance
18 Dec Wednesday	09:00-09:50	PL 01																		
	09:50-10:30	PL 02																		
	10:50-12:20		MS1301A P.47			MS1801A P.48	MS201A P.41	MS1701A P.48	MS301A P.41	MS1002A P.45	MS501A P.42	MS1203 P.46	MS801A P.44	MS902A P.45	MS603A P.44	MS305 P.42	MS602 P.43	MS1004 P.46	MS1803 P.49	MS505A P.43
	13:20-14:00		SPL 03	SPL 05		SPL 01														
	14:00-14:40		SPL 04	SPL 06		SPL 02														
	15:00-16:30	MS603 P.52	MS1301B P.57	MS1201A P.56	MS710 P.53	MS1801B P.58	MS201B P.50	MS1701B P.58	MS301B P.50	MS1002B P.55	MS501B P.51	MS310A P.51	MS801B P.54	MS902B P.54			MS1003A P.56	MS1202A P.57	MS702A P.53	MS505B P.52
	16:40-18:10	MS506 P.61	MS1301C P.65	MS1201B P.64		MS1801C P.66	MS201C P.59	MS1701C P.66	MS301C P.60	MS1002C P.63	MS501C P.60	MS310B P.60	MS801C P.62	MS902C P.62			MS1003B P.64	MS1202B P.65	MS702B P.61	
19 Dec Thursday	08:30-09:00	PL 03																		
	09:00-09:50	PL 04																		
	09:50-10:30	PL 05																		
	10:50-12:20		MS1301D P.77			MS304A P.71	MS201D P.70	MS1302A P.77	MS301D P.71	MS1002D P.74	MS501D P.72	MS1108A P.76	MS802 P.74	MS1105A P.75	MS601 P.73	MS402 P.72	MS101A P.70	MS1005 P.75	MS709 P.73	MS1802A P.78
	13:20-14:00		SPL 09	SPL 11		SPL 07														
	14:00-14:40		SPL 10	SPL 12		SPL 08														
	15:00-16:30	MS302A P.80	MS704A P.82	MS202A P.80	MS1501A P.86	MS304B P.81	MS201E P.79	MS1302B P.85	MS1104A P.84	MS401A P.82	MS1603A P.86	MS1108B P.85	MS1603A P.87	MS1105B P.84			MS101B P.79	MS901A P.83	MS307A P.81	MS1802B P.87
	16:40-18:10	MS302B P.90	MS704B P.92	MS202B P.89	MS1501B P.94	MS304C P.90	MS203 P.89	MS308A P.90	MS1104B P.93	MS401B P.91	MS1603B P.95	MS1403A P.94	MS1603B P.96	MS706 P.92			MS101C P.88	MS901B P.93	MS307B P.90	MS1802C P.96
20 Dec Friday	08:30-09:00	PL 06																		
	09:00-09:50	PL 07																		
	09:50-10:30	PL 08																		
	10:50-12:20		MS704C P.102			MS304D P.100	MS1103A P.105	MS308B P.100	MS1502A P.107	MS1503A P.108	MS701A P.102	MS1403B P.106	MS711A P.104	MS1101A P.104	MS503A P.101	MS1601 P.108	MS101D P.100	MS1402A P.106	MS707 P.103	MS705 P.103
	13:20-14:00			SPL 15		SPL 13														
	14:00-14:40			SPL 16		SPL 14														
	15:00-16:30	MS1601 P.118	MS704D P.112	MS1102A P.115	MS1101A P.114	MS309A P.110	MS1103B P.115	MS303A P.109	MS1502B P.117	MS1503B P.118	MS701B P.111	MS1403C P.117	MS711B P.113	MS1101B P.114	MS503B P.111		MS502A P.110	MS1107A P.116	MS306A P.109	MS703A P.112
	16:40-18:10		MS704E P.122	MS1102B P.124	MS1101B P.123	MS309B P.120		MS303B P.119	MS1502C P.126	MS1503C P.126	MS701C P.121	MS1403D P.125	MS711C P.122	MS1101C P.123			MS502B P.120	MS1107B P.124	MS306B P.119	MS703B P.121

Congress Venue



Taipei International Convention Center (TICC)

The Taipei International Convention Center (TICC) has been operated by TAITRA since 1992. With considerable event management experience and a deep commitment to integrating Taiwan's MICE industry resources, the TICC has become Taiwan's top venue provider. Every year, the TICC hosts an average of 850 major events, such as world congresses, forums, concerts, and product launches. Purpose-built to meet organizer requirements, the TICC has everything needed to make any event a success. The best partner for events in Asia- TICC.

Address: 1 Hsin-Yi Rd., Sec.5, Taipei 11049, Taiwan

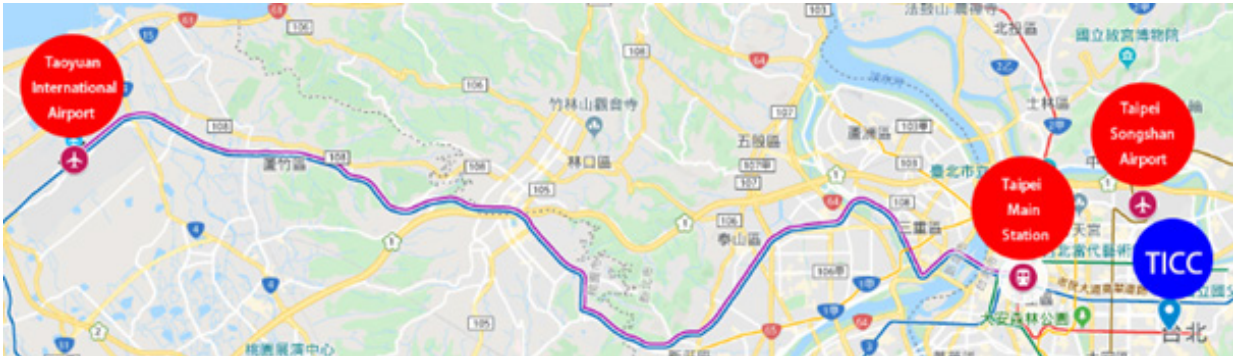
Website: <http://www.ticc.com.tw>



How to Get to the Venue

Taipei has 2 international airports –

Taoyuan International Airport (TPE) and **Taipei Songshan Airport (TSA).**



Taoyuan International Airport (TPE)

By MRT

Step 1: From Taoyuan Airport Station to Taipei Main Station

Take Taoyuan Airport MRT line (A13 Airport Terminal 2 Station/A12 Airport Terminal 1 Station) to A1 Taipei Main Station. About **45 minutes** to Taipei City. The first train starts at 05:57 with an interval of 10-15 minutes, and ticket costs **NT\$150** per trip.

Step 2: From Taipei Main Station to TICC

Take MRT Tamsui-Xinyi Line (Red line) from Taipei Main Station to Taipei 101/World Trade Center Station. About **14 minutes**, and ticket costs **NT\$25**. Please walk towards Xin-Yi Road Sec.5 to the venue (TICC) from **exit no. 1**.

By Taxi

Airport taxis provide transportation services 24 hours a day, all year round. Taxi service is available outside the Arrival Lobby of Terminal 1 and 2. It takes around 40 minutes to arrive the venue (TICC) and recommended hotels. The taxi fare is around NT\$1,200- NT\$1,500.

Taipei Songshan Airport (TSA)

By MRT

Step 1: Take MRT Wenhua line (BR line) from Songshan Airport to Daan Station ROUTE MAP

Step 2: Transfer to MRT Tamsui-Xinyi line (Red line) to Taipei 101/World Trade Center Station

About 17 minutes, NT\$ 25 per trip.

By Taxi

About 20 minutes, NT\$ 200-250 per car

Room Allocation

Conference Room 101

- Opening & Award Ceremony
- Plenary Lectures

Conference Room 102 / 101B / 101C

- Semi-Plenary Lectures
- Parallel Sessions

Conference Room 101A / 101D / 103 / 105 / 201A / 201B / 201C / 201D / 201E / 201F / 202 / 203 / North Lounge / South Lounge / Joy Lounge / Elegance Lounge

- Parallel Sessions

V.I.P. Room

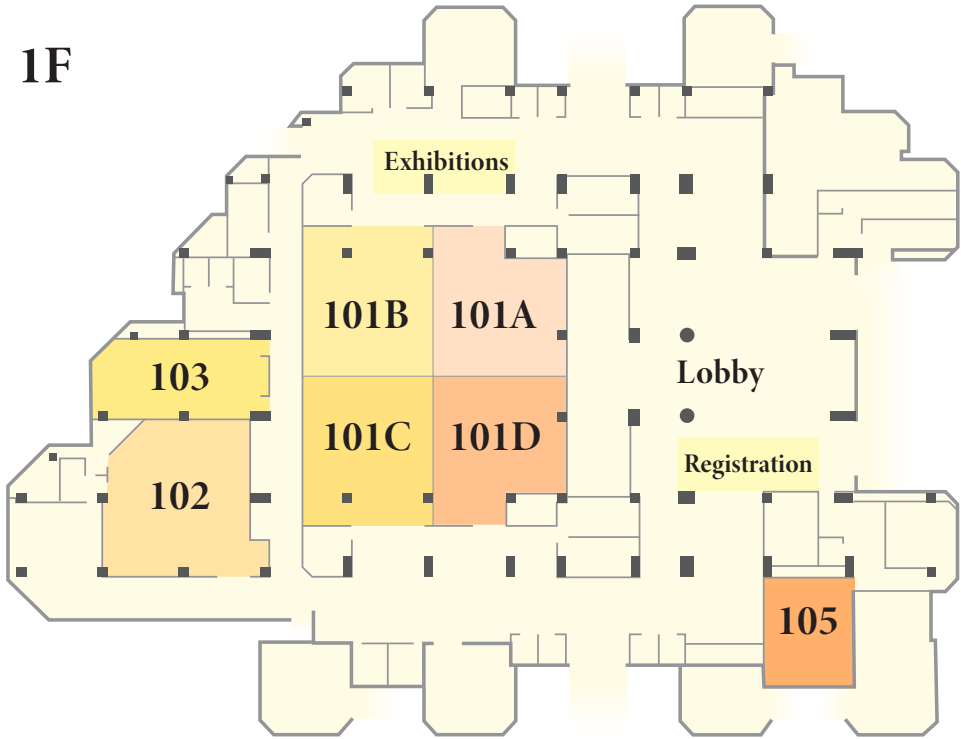
- Welcome Reception

Lobby

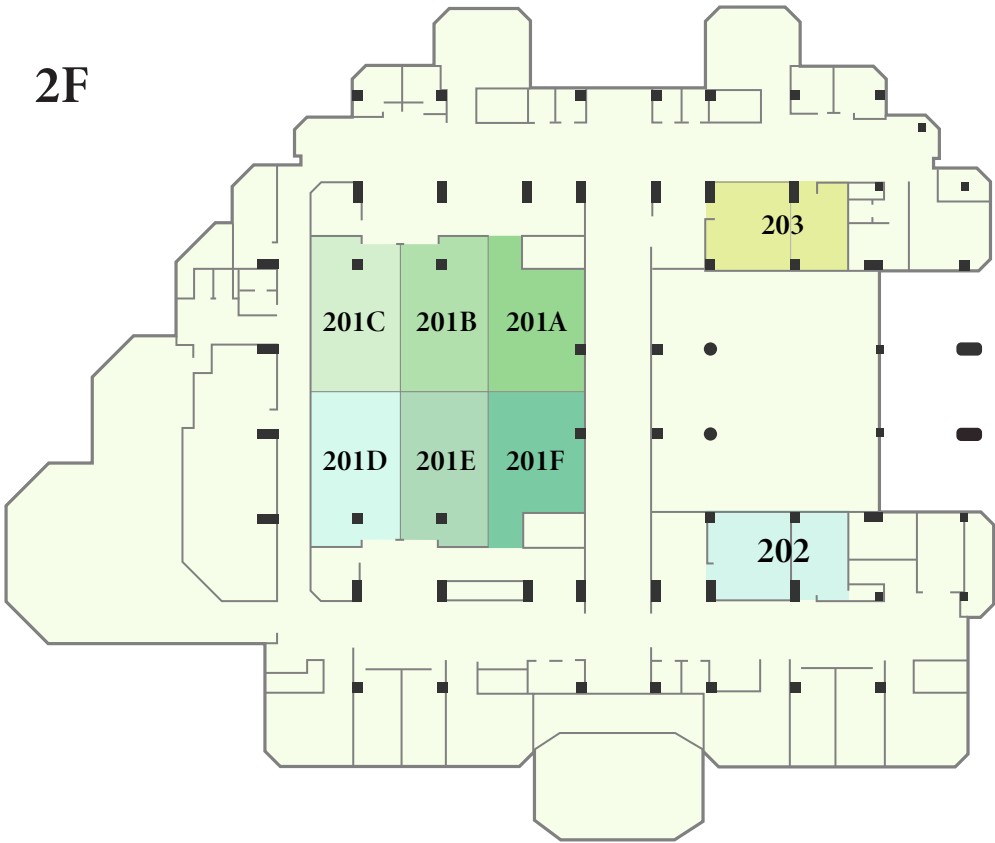
- Registration Desk
- Exhibitions (outside 101B)

Room Allocation

1F

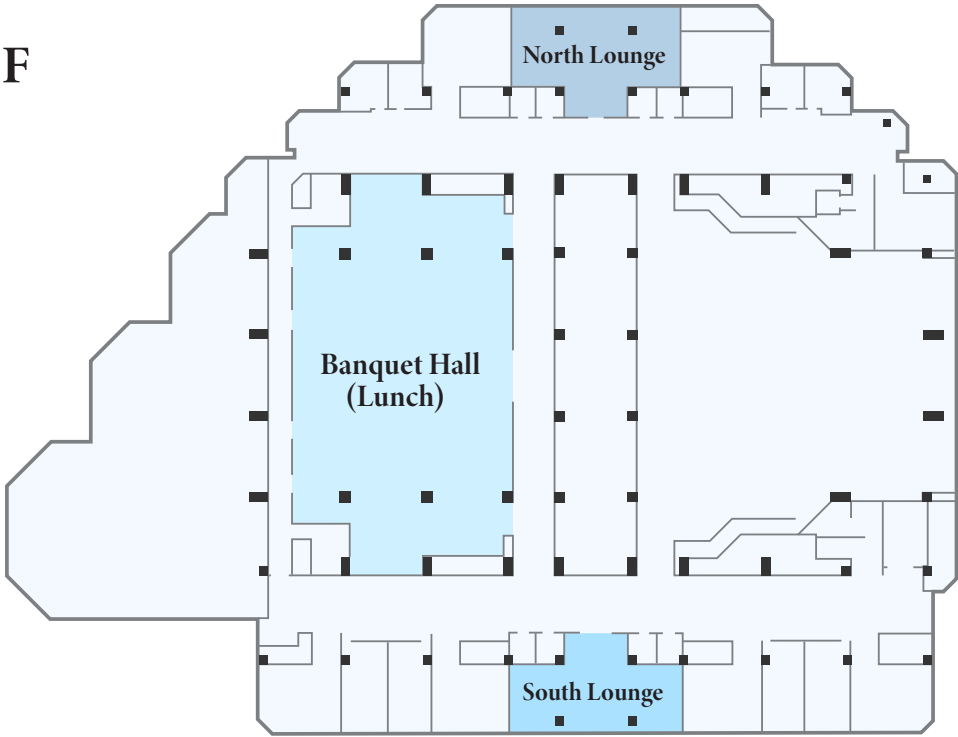


2F

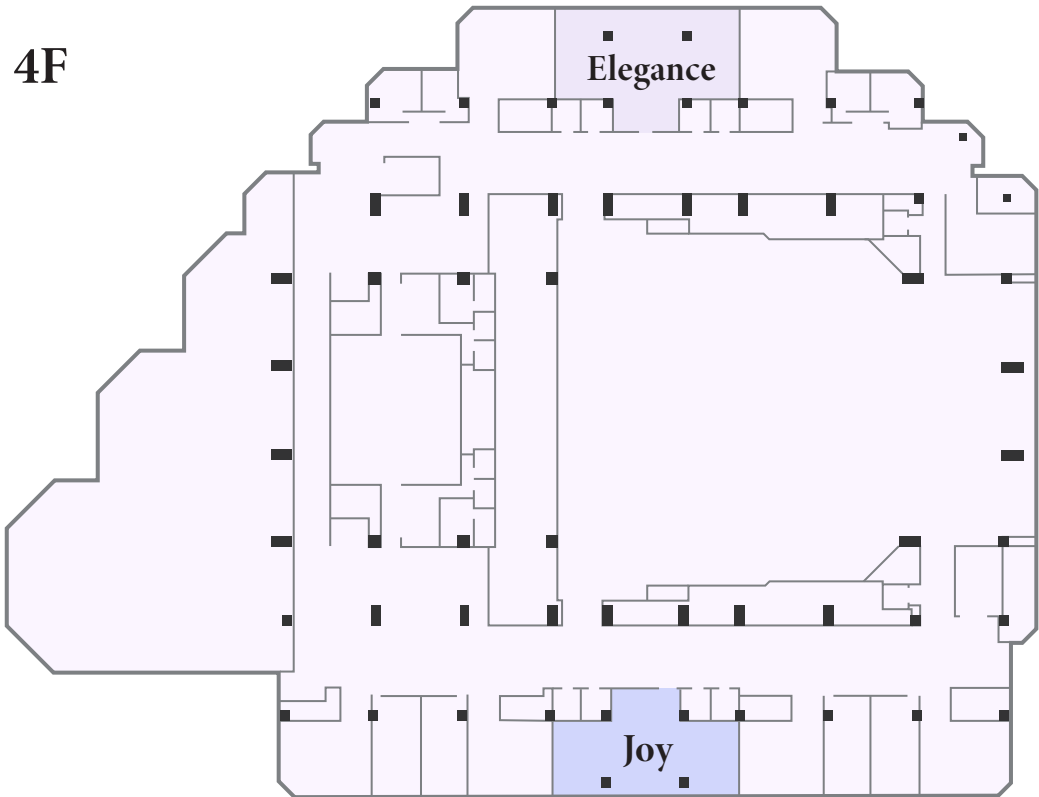


Room Allocation

3F



4F



Registration Guide

The registration desk is located in the lobby at 1st floor.

You can take your ID badge, congress kit (including program book) and other information for the congress.

Date	Operation Hours	Location
12/17 Tuesday	17:00~20:30	1st floor lobby
12/18 Wednesday	08:00~17:30	
12/19 Thursday	08:00~17:30	
12/20 Friday	08:00~17:30	

¶ Please bring the registration barcode which has sent via your e-mail. It will definitely reduce waiting time.

¶ For identification and security reasons, name tags should be worn and visible at all times during meetings and at social functions.

¶ Please inquire at the registration desk for lost name tags.

Use of Internet and Wi-Fi

Wi-Fi access is available for all the APCOM 2019 delegates in TICC. You can access the network through the following SSID and Password:

SSID: apcom2019

Password: acmt2019

You can also access iTaiwan public Wi-Fi for free in most parts of Taipei City and Taiwan. To access the iTaiwan network, you will need to go through a verification process via your mobile phone to register for an iTaiwan account.

Mobile Application

The APCOM 2019 Has Gone Mobile!

We strongly encourage you to download our mobile app to enhance your experience at APCOM 2019. You 'll be able to plan your day with schedule and browse up-to-date program, map and alert.

Download the **Whova app** on your phone from either the App Store (iOS) or the Google Play Store (Android).

Also, you can find APCOM detailed program with this link:

<http://program.apcom2019.org/>

or QR code below.



APCOM 2019

Programs

Day 03

Dec. 20



MS303	Multiscale Modeling for Materials
MS304	Single and Multi-Scale Analysis and Design for Materials and Structures
MS306	Computational Approaches for Biological and Bio-inspired Materials Design
MS308	Artificial Intelligence and Multiscale Modeling for Computational Materials Design
MS309	Probability-based Performance Evaluation of Materials and Structures with Uncertainties
MS502	Multi-Stage Failure Simulations
MS503	Computational Damage and Fracture Simulation Methods for Pressure Vessels and Pipelines
MS701	Numerical Modeling of Granular and Multiphase Flows
MS703	Recent Advances in Application of CFD Tools to Complex Flow Problems
MS704	Computational Fluid Dynamics Simulation: Flow Prediction and Flow Control
MS705	Computational Methods for Environmental Fluid Mechanics
MS707	Lattice Boltzmann Methods for Fluid Dynamics
MS711	Hypercomplex Disaster Simulations
MS1001	Domain Decomposition and Large-Scale Computation
MS101	Symposium to Professor Kazuo Kashiwama on his 60th Birthday
MS1101	Advanced seismic response analysis and design
MS1102	Computational Structural Dynamics for Bridges
MS1103	Advanced beam analysis
MS1107	Advanced computational methods for wave analysis and their Application
MS1402	Advanced Computing and Artificial Intelligence for Social, Traffic and Economic Problems

MS1403	Advances in Computational Methods in Infrastructure Systems and Engineering
MS1502	Optimization Method and Application
MS1503	Optimization and AI Technologies for Computational Mechanics and Innovative Applications
MS1601	Problem Solving Environment (PSE) in Scientific Computing

[MS701A] Numerical Modeling of Granular and Multiphase Flows*Friday, 20 December, 10:50-12:20, 201C*

Organizer: Mikio Sakai, Chiharu Tokoro, Zongyan Zhou, Shunying Ji and Shuiqing Li

Chair: Shunying ji

10:50 ~ 11:20 (30')

0393 State-of-the-art modeling for DEM simulations toward virtual manufacturing

Mikio Sakai

11:20 ~ 11:35 (15')

0488 A Numerical Study on the Melting of PCMs inside Shell and Tube Latent Thermal Energy System with Different Number and Array of inner Tubes

Seong Hyun Park, Yong Gap Park and Man Yeong Ha

11:35 ~ 11:50 (15')

0660 Numerical Study on Multiphase Flow in a Cyclone Separator for Fuel Cell Vehicles

Atsushi Tsurumaru, Keisuke Terada, Ryuji Furukawa, Mizue Munekata, Hiroyuki Yoshikawa and Kenji Ono

11:50 ~ 12:05 (15')

0119 Application of DEM-CFD on optimized design of hydraulic classifier for efficient plastic recycling

Ayano Nitta, Shin Doi, Yuji Ando, Tadashi Kihara, Makoto Harita, Yuki Tsunazawa and Chiharu Tokoro**[MS704C] Computational Fluid Dynamics Simulation: Flow Prediction and Flow Control***Friday, 20 December, 10:50-12:20, 101*

Organizer: Hiroya Mamori, Koji Fukudome, Yusuke Kuwata and Naoya Fukushima

Chair: Yusuke Kuwata

10:50 ~ 11:20 (30')

0702 Emergence of Dissimilarity between Heat and Momentum Transports for Turbulent Stripes in Transitional Plane Couette Flow

Koji Fukudome, Takahiro Tsukahara and Makoto Yamamoto

11:20 ~ 11:35 (15')

0362 Direct numerical simulation of turbulent channel flow with sinusoidal superhydrophobic surface

Daiho Sakamoto, Hiroya Mamori and Takeshi Miyazaki

11:35 ~ 11:50 (15')

0241 Parameter Dependences of Intermittent Turbulent Regime of Annular Couette-Poiseuille Flow

Hirotaka Morimatsu and Takahiro Tsukahara

11:50 ~ 12:05 (15')

0330 New Knowledge as DP Universality Class on the Subcritical Turbulent Transitions of Wall-bounded Shear Flows

Kazuki Takeda and Takahiro Tsukahara

15:30 ~ 15:45 (15')

0096 Parametric Study on Numerical Simulation of Ground Surface Deformation Based on Finite Strain Isotropic Elastoplastic Damage Model

Shun Suzuki, Marina Okawa, Shuji Moriguchi, Shinji Toda and Kenjiro Terada

15:45 ~ 16:00 (15')

0282 A Cohesive-traction Embedded Model with Fatigue-induced Damage for Prediction of Crack Nucleation and Propagation in a Metal

Katsuya Soejima, Yuichi Shintaku, Seiichiro Tsutsumi and Kenjiro Terada

[MS503B] Computational Damage and Frature Simulation Methods for Pressure Vessels and Pipelines

Friday, 20 December, 15:00-16:30, 202

Organizer: Toshio Nagashima, Naoki Miura, Yun-Jae Kim, Nam-Su Huh, Yoshitaka Wada and Akiyuki Takahashi

Chair: Naoki Miura, Toshio Nagashima

15:00 ~ 15:30 (30')

0076 Benchmark Analysis for Ductile Fracture Simulation – Analysis by Korea University –

Jin-Ha Hwang, Gyo-geun Youn, Miura Naoki and Yun-Jae Kim

15:30 ~ 15:45 (15')

0309 Benchmark Analysis for Ductile Fracture Simulation -Analysis by Seoultech-

Ji-Hee Moon and Nam-Su Huh

15:45 ~ 16:00 (15')

0307 Benchmark Analysis for Ductile Fracture Simulation - Analysis by Japan Atomic Energy Agency -

Akihiro Mano, Ryuta Imai, Jinya Katsuyama and Yinsheng Li

16:00 ~ 16:15 (15')

0197 Benchmark Analysis for Ductile Fracture Simulation -Analysis by Tokyo University of Science-

Akiyuki Takahashi and Takao Nakayama

[MS701B] Numerical Modeling of Granular and Multiphase Flows

Friday, 20 December, 15:00-16:30, 201C

Organizer: Mikio Sakai, Chiharu Tokoro, Zongyan Zhou, Shunying Ji and Shuiqing Li

Chair: Mikio Sakai

15:00 ~ 15:30 (30')

0369 Estimation the Soft-Sphere Discrete Element Modelling Parameters from Microscopic Contact Mechanisms

Hsiu-Po Kuo and An-Ni Huang

15:30 ~ 15:45 (15')

0056 Numerical Investigation on Rheological Effects of Aggregate Breakup

Hirotake Udon, Kazuyoshi Uruga, Takeshi Tsukada and Mikio Sakai

15:45 ~ 16:00 (15')

0104 A PISO-VOF Method for Continuum Simulation of Dense Granular Flows

Cheng-Chuan Lin and Fu-Ling Yang

16:00 ~ 16:15 (15')

0264 Numerical investigation of contribution of DEM parameters on granular flows and their correlations

Hiroki Okuyama, Shuji Moriguchi, Kenjiro Terada and Tadashi Kawai

[MS703A] Recent Advances in Application of CFD Tools to Complex Flow Problems

Friday, 20 December, 15:00-16:30, Elegance Lounge, 4F

Organizer: Yi-Ju Chou, Yang-Yao Niu and Chien-Chou Tseng

Chair: Yang-Yao Niu

15:00 ~ 15:30 (30')

0580 ultraMPP: A New Parallel Computational Platform and Its Applications

Y.-M. Lee, M.-H. Hu, J.-X. Yu, K.-L. Chen, C.-H. Tsai, M.-H. Tseng and J.-S. Wu

15:30 ~ 15:45 (15')

0019 A New Modified Six-order Weighted Essentially Non-oscillatory Scheme for Hyperbolic Conservation Laws

Yahui Wang, Yulong Du, Kunlei Zhao and Li Yuan

15:45 ~ 16:00 (15')

0158 Application of proper orthogonal decomposition method and Galerkin Projection to piping flow analysis

Tatsuro Yashiki, Gaku Hashimoto and Hiroshi Okuda

16:00 ~ 16:15 (15')

0626 Simulating Sedimentation of Multiple Spheres Using an Immersed Boundary Method

Yu-Lin Chien and Yi-Ju Chou

16:15 ~ 16:30 (15')

0413 Simulation of Supersonic Flow Over a Side Jet

Yu-Hsuan Huang, Chung-Hao Wu, Yang-Yao Niu and Yi-Ju Chou

[MS704D] Computational Fluid Dynamics Simulation: Flow Prediction and Flow Control

Friday, 20 December, 15:00-16:30, 101B

Organizer: Hiroya Mamori, Koji Fukudome, Yusuke Kuwata and Naoya Fukushima

Chair: Takahiro Tsukahara

15:00 ~ 15:15 (15')

0135 Rayleigh-Benard convection of paramagnetic liquid under a magnetic field from block magnets.

Kengo Wada, Masayuki Kaneda and Kazuhiko Suga

16:55 ~ 17:10 (15')

0085 Fracture characteristics along the Interfacial Transition Zone of Concrete

Razakamandimby R. D. F. Tiana, Ju Minkwan and Park Kyoungsoo

17:10 ~ 17:25 (15')

0283 A Numerical Study on Discontinuous Displacement for Crack Nucleation and Propagation

Ryohei Kanezawa, Yuichi Shintaku and Kenjiro Terada

[MS701C] Numerical Modeling of Granular and Multiphase Flows

Friday, 20 December, 16:40-18:10, 201C

Organizer: Mikio Sakai, Chiharu Tokoro, Zongyan Zhou, Shunying Ji and Shuiqing Li

Chair: Hsiu-Po Kuo

16:40 ~ 17:10 (30')

0102 Packing and Flow of Spherical and Ellipsoidal Powders

Zongyan Zhou

17:10 ~ 17:25 (15')

0161 DEM simulation for suction filling

Kosei Yoshida, Kazuya Takabatake, Yuki Mori and Mikio Sakai

17:25 ~ 17:40 (15')

0235 Numerical simulation on an industrial bead mill by Advanced DEM-CFD method

Hiroyuki Tanaka, Masayuki Sugawara, Hideaki Yokota and Mikio Sakai

17:40 ~ 17:55 (15')

0057 DEM simulation for an optimized design of dry media agitation type mill for fine grinding

Yuki Ishij, Yu Nagata, Masaya Minagawa, Kyoko Okuyama, Motonori Iwamoto, Yasuyoshi Sekine, Yuki Tsunazawa and Chiharu Tokoro

[MS703B] Recent Advances in Application of CFD Tools to Complex Flow Problems

Friday, 20 December, 16:40-18:10, Elegance Lounge, 4F

Organizer: Yi-Ju Chou, Yang-Yao Niu and Chien-Chou Tseng

Chair: Chien-Chou Tseng

16:40 ~ 17:10 (30')

0464 Direct Numerical Simulation of Aeroacoustic Sound using Supercomputer for Practical Applications

ChungGang Li, Makoto Tsubokura and HsuehJui Lu

17:10 ~ 17:25 (15')

0555 Numerical Simulations of a Single Microdischarge in Atmospheric Pressure Dielectric Barrier Discharges

Kun-Mo Lin, Yi-Hsun Huang and Wen-Yu Guo

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