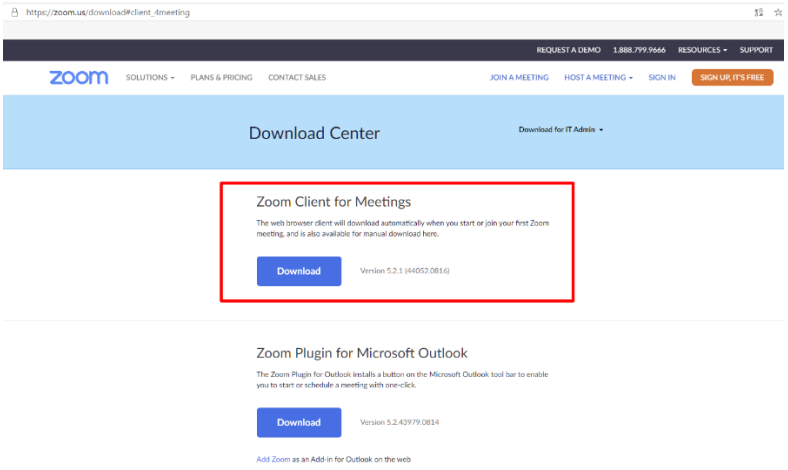
The IEEE ICMA 2022 Conference will be held online using Zoom software. You can follow next steps to join the IEEE ICMA 2022 online Conference:

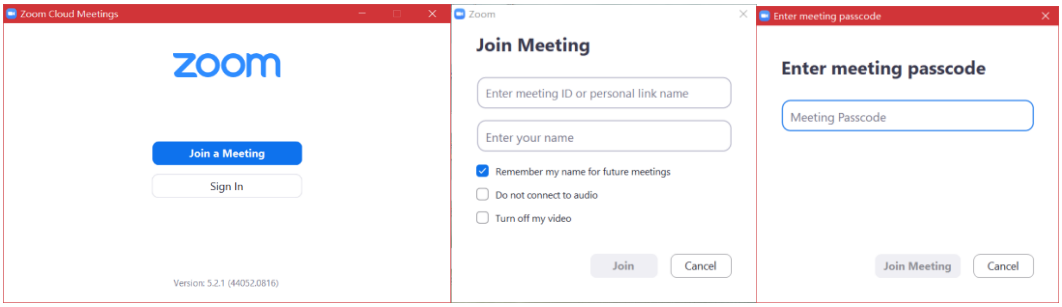
Step 1: Install the Zoom client.

Download URL: https://zoom.us/download#client_4meeting



Step 2: Launch Zoom software and join the Conference.

After launching Zoom software, please click **Sign In** if you already have an account. You can click **Join a Meeting** to attend as a visitor without signing in. (For authors in the Mainland of China, you can join a meeting as a visitor and don't need to create an account.)



1. IEEE ICMA 2022 online Conference has 7 online meeting rooms. You can find the Conference Room ID and meeting passcode by clicking http://2022.ieee-icma.org/pagefiles/ICMA2022RoomLink.pdf.

2. When you join the room meeting, you need to modify your display name by following the format:

- If you are a staff member, please use “real name-Staff”.

  e.g., Bart Simpson-Staff

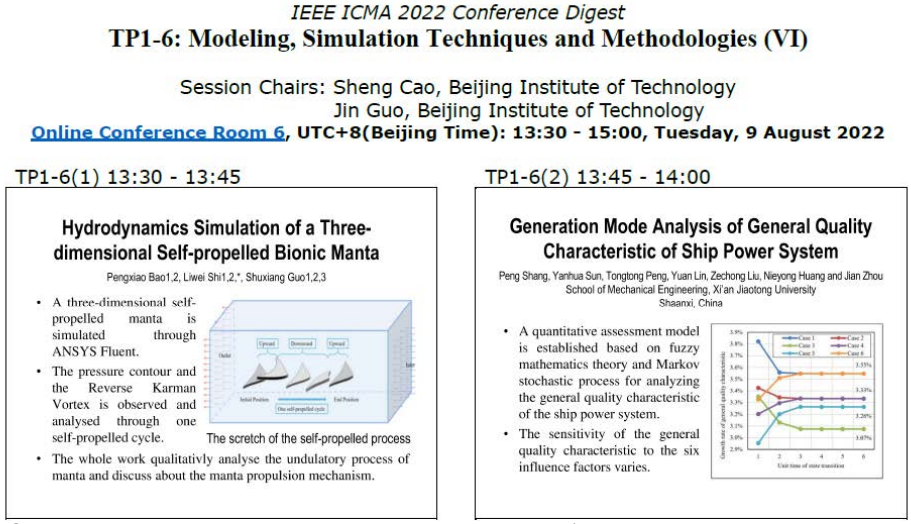
- If you are a session chair, please use “real name-Session Chair”.

  e.g., Bart Simpson-Session Chair

- If you are an oral speaker in this session, please use “real name-Session Name (Presentation Number)”.

  e.g., Bart Simpson -TP1-6(2)

The “Session Name (Presentation Number)” can be found in http://2022.ieee-icma.org/pagefiles/Program/ICMA2022DIGEST.pdf.



IEEE ICMA 2022 Conference Digest

TP1-6: Modeling, Simulation Techniques and Methodologies (VI)

Session Chairs: Sheng Cao, Beijing Institute of Technology
Jin Guo, Beijing Institute of Technology

Online Conference Room 6, UTC+8(Beijing Time): 13:30 - 15:00, Tuesday, 9 August 2022

TP1-6(1) 13:30 - 13:45

Hydrodynamics Simulation of a Three-dimensional Self-propelled Bionic Manta

Pengxiao Bao1,2, Liwei Shi1,2,*, Shuxiang Guo1,2,3

- A three-dimensional self-propelled manta is simulated through ANSYS Fluent.
- The pressure contour and the Reverse Karman Vortex is observed and analysed through one self-propelled cycle.

The scretch of the self-propelled process

- The whole work qualitativly analyse the undulatory process of manta and discuss about the manta propulsion mechanism.

TP1-6(2) 13:45 - 14:00

Generation Mode Analysis of General Quality Characteristic of Ship Power System

Peng Shang, Yanhua Sun, Tongtong Peng, Yuan Lin, Zechong Liu, Nieyong Huang and Jian Zhou
School of Mechanical Engineering, Xi'an Jiaotong University
Shaanxi, China

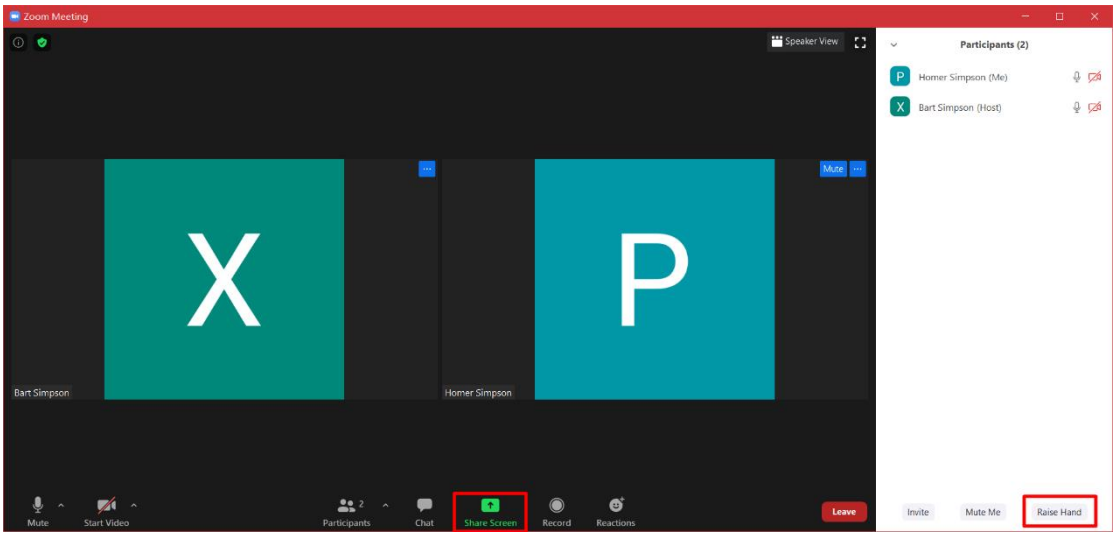
- A quantitative assessment model is established based on fuzzy mathematics theory and Markov stochastic process for analyzing the general quality characteristic of the ship power system.
- The sensitivity of the general quality characteristic to the six influence factors varies.

- If you are an audience, please use “real name-Audience”.

  e.g., Bart Simpson-Audience

Step 3: Start your oral speech and Q/A.

If you are an oral speaker, you can use “Share Screen” to show your Powerpoint and make your presentation for 12 minutes. In Q/A (3 minutes), the listeners can click “**Raise Hand**” to ask questions.



* When join the Conference meeting, everyone will be muted except the oral speaker.

Important Notes:

Each speaker has 15 minutes in total, including 12 minutes for presentation and 3 minutes for Q/A. Please get ready for your presentation in advance, the timekeeper will be activated once you start to share your screen.