

# CSD&mAsia

4th International Conference  
Complex Systems Design & Management Asia  
第四届国际复杂系统设计暨管理亚太会议

September 21-22, 2020  
Renaissance Beijing Wangfujing Hotel, Beijing, China

2020年9月21-22日/北京金茂万丽酒店



# Presentation of CSD&M Asia 2020

CSD&MAsia

## INTERNATIONAL CONFERENCE ON COMPLEXE SYSTEMS DESIGN & MANAGEMENT (CSD&M) IN ASIA

**Designing & constructing efficiently large-scale industrial systems** is today a strategic challenge for the industry which requires new engineering practices as well as sophisticated theoretical tools.

The Complex Systems Design & Management (CSD&M) conference is an **international academic-industrial-governmental transversal forum** for all actors working on complex industrial systems.

- **Conference dates:** 21-22 September 2020
- **Location:** Renaissance Beijing Wangfujing Hotel, Beijing, China
- **Organizers:** CESAMES & CSAA
- **Keynotes theme:** Digital Transformation in Complex Systems Engineering
- **Current sponsors:** (more to come)

### General Co-Chairs



**KROB Daniel**  
Institute Professor, Ecole Polytechnique  
INCOSE Fellow  
President, CESAMES



**Dr. ZHANG Xinguo**  
Distinguished Professor, Director of Complex Systems Engineering Research Center, Tsinghua University  
INCOSE ESEP  
President, INCOSE Beijing Chapter

### Organizing Committee Chair



**YAO Junchen**  
Secretary General  
CSAA

### Program Committee Co-Chairs



**LI Lefei**  
Associate Professor  
Tsinghua University



**ZHANG Hongjun**  
President of the Systems Engineering Research Institut  
CSSC





# Presentation of CSD&M Asia 2020

## CONFERENCE HISTORY

- CSD&M was created in France in 2010 by **Prof. KROB Daniel** and has been organized every year by the French non-profit organization **CESAMES** (系思迈系统架构协会), with guidance & support of the Dassault Aviation – DCNS – DGA – Thales « Complex Systems Engineering » industrial chair of Ecole Polytechnique;
- CSD&M Asia was created in 2014. After 3 editions in Singapore and thanks to INCOSE, CESAMES shall co-organize the 2020 Edition in Beijing with **CSAA** (Chinese Society of Aeronautics and Astronautics 中国航空学会), under the precious guidance of **Dr. ZHANG Xinguo**.



## CONFERENCE SCOPE

As usual, the **CSD&M Asia conference is intended to be a KEY MEETING POINT in Asia-Pacific area for industrial, academic and governmental actors interested in Model-Based Systems Engineering and complex projects management.** Each presentation in the conference usually covers 2 types of topics:

- an **industrial domain**
- a **scientific or technical topic**

As mentioned, the CSD&M Asia has been successful with important research topics of academies and project topics of industries and governmental agencies. **This 4th edition in Beijing will continue to open up to diverse and advanced topics such as defense, aviation, space, nuclear, energy, health, transportation (train, ship and vehicle), electronics, emerging technologies....** So any paper or presentation subject can cover one or multiple topics of the below table:

| Industrial Domains  | Scientific & Technical Topics  |
|---|--|
| <ul style="list-style-type: none"><li>- Aerospace</li><li>- Automotive</li><li>- Communications &amp; E-services</li><li>- Defense &amp; Security</li><li>- Electronics &amp; Robotics</li><li>- Energy &amp; Environment</li><li>- Healthcare &amp; Welfare services</li><li>- High-Tech</li><li>- Logistics &amp; Supply chain</li><li>- Ship &amp; Transportation</li><li>- Software industry</li><li>- Urban &amp; Public infrastructures</li></ul> | <ul style="list-style-type: none"><li>- Systems fundamentals</li><li>- Systems architecture &amp; Engineering</li><li>- Model-Based Systems Engineering</li><li>- Big-data for industrial applications</li><li>- Systems manufacturing</li><li>- Systems Modeling &amp; Simulation</li><li>- System optimization</li><li>- System project management</li><li>- Systems safety</li><li>- Systems serviceability</li><li>- Systems Technology &amp; Policy</li></ul> |

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## CONFERENCE PUBLICATION POLICY

The proceedings of CSD&M Paris (every year) and CSD&M Asia (every two years) are published by Springer Verlag in dedicated book series, and referenced & indexed in DBLP, EI Compendex, ISI Clarivate and Scopus, examples below:



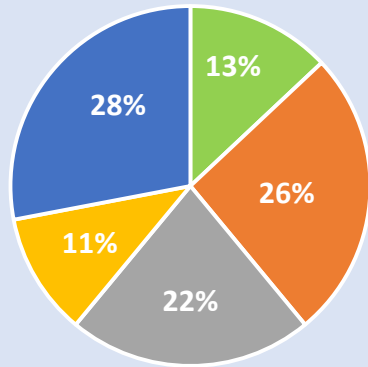


# Presentation of CSD&M Asia 2020

CSD&MAsia

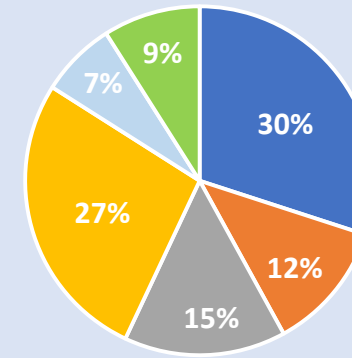
LAST EDITION CSD&M 2018 IN PARIS – PARTICIPATION

## Job position:



- Academic (professor, researcher, PhD, student)
- Architect / Engineer (system, solution, MBSE, R&D...)
- Director (technical, engineering, R&D, innovation...)
- Executive Management (CEO, VP, CTO, CIO)
- Middle Management (project leader, manager)

## Industries:



- Aeronautics
- Aerospace
- Automotive
- Defense/Naval
- Energy
- Other

AIRBUS

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dgac

HONDA

GE

PSA  
GROUPE

AIR LIQUIDE

DASSAULT  
AVIATION

ZODIAC  
AEROSPACE

EDF

Valeo

RATP

NUS  
National University of Singapore

SAFRAN

ALSTOM

MBDA  
MISSILE SYSTEMS

ENGIE

THALES

VINCI  
CONSTRUCTION

University of  
BRISTOL

GROUPE RENAULT

Georgia  
Tech

CNRS

NAVAL  
GROUP

Schneider  
Electric

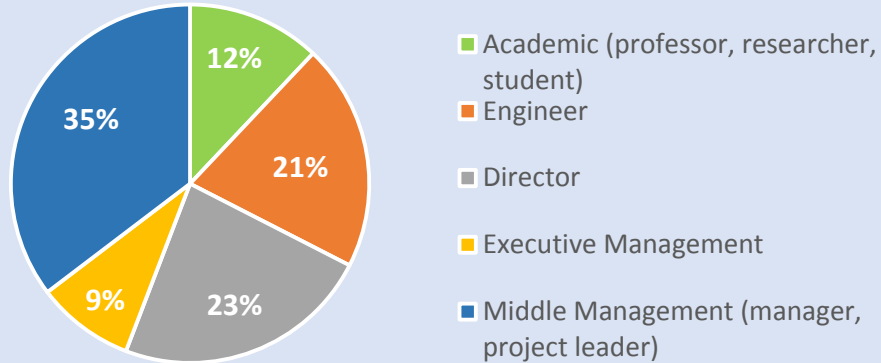
UNIVERSITY OF MINNESOTA

# Presentation of CSD&M Asia 2020

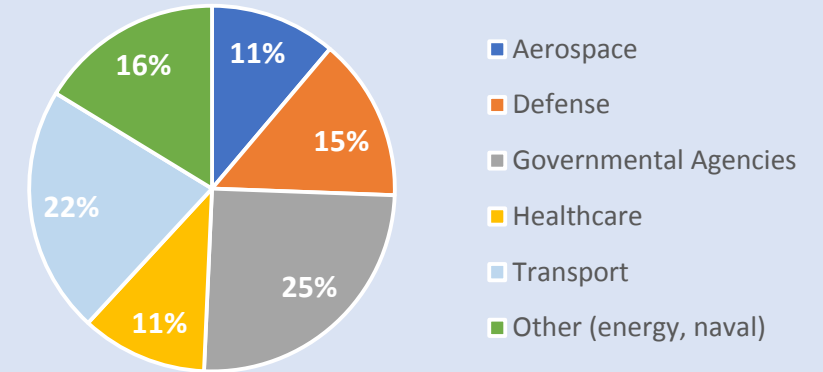
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LAST EDITION CSD&M ASIA 2018 IN SINGAPORE – PARTICIPATION

## Job position:



## Industries:



# Presentation of CSD&M Asia 2020

## MEMBERS OF ORGANIZING COMMITTEE 2020

|                            |  |                                      |           |
|----------------------------|--|--------------------------------------|-----------|
| <b>YAO Junchen</b> (Chair) | Secretary General of Chinese Society of Aeronautics and Astronautics     | <b>CSAA</b>                          | China     |
| <b>FLEURY Gilles</b>       | Director & Former director of Centrale Beijing (Beihang Univ.)           | <b>Paris Campus Sciences po</b>      | France    |
| <b>GONG Minyan</b>         | Director   | <b>CESAMES China</b>                 | China     |
| <b>LANDRY Serge</b>        | Director INCOSE Asia-Pacific   | <b>INCOSE Asia-Pacific</b>           | Singapore |
| <b>LIU TongLong</b>        | President  | <b>Nortek</b>                        | China     |
| <b>LIU Xiao</b>            | Prof. & Dir International Cooperation                                    | <b>Shanghai Jiao Tong University</b> | China     |
| <b>LUNNEY Kerry</b>        | President Elect of INCOSE Global   | <b>INCOSE</b>                        | Australia |
| <b>LIU Dong</b>            | Managing Director of Accenture Greater China                             | <b>Accenture Beijing</b>             | China     |
| <b>YU Ce</b>               | Director of Dpt. International Cooperation Science Technology Consulting | <b>CSAA</b>                          | China     |



# Presentation of CSD&M Asia 2020

## MEMBERS OF PROGRAM COMMITTEE 2020 – ACADEMY LIST

|                      |                         |   |   |  |                |
|----------------------|-------------------------|---|---|--|----------------|
| <b>LI (Co-Chair)</b> | <b>Lefei</b>            | Associate Professor, Head of the SKL-MCCS     | Department of Industrial Engineering  | <b>Tsinghua University</b>   | China          |
| <b>CARDIN</b>        | <b>Michel-Alexandre</b> | Associate Professor                           | Faculty of Engineering, Dyson School of Design Engineering                                      | <b>Imperial College</b>  | United Kingdom |
| <b>DE WECK</b>       | <b>Olivier</b>          | Professor, INCOSE & CESAMES Fellow            | Department of Aeronautics and Astronautics  | <b>Massachusetts Institute of Technology</b>                       | USA            |
| <b>FENG</b>          | <b>Yanghe</b>           | Associate Professor                           | College of Systems Engineering  | <b>National University of Defense Technology</b>                   | China          |
| <b>GAO</b>           | <b>Xinghai</b>          | Professor                                     | Unmanned System Institute   | <b>Beihang University</b>  | China          |
| <b>GUAN</b>          | <b>Ruoxi</b>            | Associate Director                            | Complex Systems Engineering Research Center   | <b>Tsinghua University</b>   | China          |
| <b>HAMMAMI</b>       | <b>Omar</b>             | Professor                                     | Department of Systems Engineering   | <b>ENSTA</b>   | France         |
| <b>JACKSON</b>       | <b>Peter</b>            | Professor, Head of Pillar, Institute Director | Engineering systems division  | <b>Singapore University of Technology &amp; Design</b>             | Singapore      |
| <b>KOO</b>           | <b>John</b>             | Director of Cyber-Physics Systems             | Cyber-Physics Systems   | <b>Hong Kong Applied Science and Technology Research Institute</b> | China          |
| <b>LV</b>            | <b>Yisheng</b>          | Associate Professor                           | The State Key Laboratory for Management and Control of Complex Systems, Institute of Automation | <b>Chinese Academy of Sciences</b>                                 | China          |
| <b>RAUZY</b>         | <b>Antoine</b>          | Professor, CESAMES Fellow,                    | Department of Mechanical and Industrial Engineering   | <b>Norwegian University of Science and Technology</b>              | Norway         |
| <b>WANG</b>          | <b>Chen</b>             | Associate Professor                           | Department of Industrial Engineering  | <b>Tsinghua University</b>   | China          |
| <b>WANG</b>          | <b>Yingxun</b>          | Professor                                     | Unmanned System Institute   | <b>Beihang University</b>  | China          |

# Presentation of CSD&M Asia 2020

## MEMBERS OF PROGRAM COMMITTEE 2020 – INDUSTRY LIST

|                         |                  |                                       |  |  |                |
|-------------------------|------------------|---------------------------------------|--|--|----------------|
| <b>ZHANG (Co-Chair)</b> | <b>Hongjun</b>   | President                             | Systems Engineering Research Institute           | <b>CSSC (China State Shipbuilding Corporation)</b> | China          |
| <b>AMBROSO</b>          | <b>Annalisa</b>  | Systems Engineering Responsible       | Systems Engineering Department                   | <b>FRAMATOME</b>                                   | France         |
| <b>DAURON</b>           | <b>Alain</b>     | Chief Expert Systems Architect        | Architecture Department                          | <b>RENAULT-NISSAN</b>                              | France-Japan   |
| <b>FERROGALINI</b>      | <b>Marco</b>     | Vice President, modeling & simulating | Digital design, manufacturing & services program | <b>AIRBUS</b>                                      | European Union |
| <b>HOU</b>              | <b>Shudong</b>   | Chief Expert Engineer                 | Engineering Department                           | <b>HUAWEI</b>                                      | China          |
| <b>ONG</b>              | <b>Robert</b>    | Technical Director                    | Business Development                             | <b>No Magic</b>                                    | Thailand       |
| <b>QIE</b>              | <b>Yongjun</b>   | Technical Director                    | AVIC Digital Corporation Ltd.                    | <b>Aviation Industry Corporation of China,Ltd</b>  | China          |
| <b>SCHREINEMAKERS</b>   | <b>Paul</b>      | Europe & Middle East director         | Europe & Middle East Chapter                     | <b>INCOSE</b>                                      | Netherlands    |
| <b>STARK</b>            | <b>Rainer</b>    | Director                              | Virtual Product Creation Division                | <b>FRAUNHOFER INSTITUTE</b>                        | Germany        |
| <b>SUN</b>              | <b>Zhixiao</b>   | Vice Director                         | Shenyang Aircraft Design & Research Institute    | <b>Aviation Industry Corporation of China,Ltd</b>  | China          |
| <b>XING</b>             | <b>Chenguang</b> | Director                              | Systems Engineering Institute                    | <b>Aviation Industry Corporation of China</b>      | China          |
| <b>WEN</b>              | <b>Yuejie</b>    | SeniorEngineer                        | Systems Engineering Strategy                     | <b>China Academy of Space Technology</b>           | China          |
| <b>YEE</b>              | <b>Victor</b>    | Business Development Manager          | IBM Hong Kong                                    | <b>IBM</b>   | China          |
| <b>ZHANG</b>            | <b>John</b>      | Chief Digital Design Scientist        | R&D Competence Center - 2012 Lab                 | <b>HUAWEI</b>                                      | China          |

# Presentation of CSD&M Asia 2020

## TENTATIVE ELEMENTS OF THE 2020 PROGRAM

**2 days in Beijing** to exchange in the field of systems design and management about:

- societal & industrial challenges;
- scientific & methodological state of the art.

- About **8 Chinese and international keynotes presentations on the theme: “Digital Transformation in Complex Systems Engineering”**;
- Many selected teams that present their academic and professional works.

A **poster session** to promote works in progress and discuss on topics related to complex systems



More than 300 international academic & industrial attendees among the main actors of the **international systems engineering community**

Opportunities for **networking** and a **conference dinner** gathering speakers, organizers, partners and participants in a prestigious place of Beijing

**Demonstrations and booths** to present offers, services and the latest systems design & simulation technological tools





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Mr. YU Ce 余策

Ms. ZHANG Xue 张雪 - Office Phone: +86 1084924385



Please follow the conference by the web site:

<https://www.2020.csdm-asia.net/>

Please care and broadcast CESAMES's WeChat:

CESAMES系思迈系统架构企业管理

← 微信 QR code

Event co-organized by

