

# CSD&M Asia 2020

4th International Conference  
Complex Systems Design & Management Asia  
第四届国际复杂系统设计与管理亚洲会议

~~September 21-22, 2020~~ April 12-13, 2021

Renaissance Beijing Wangfujing Hotel, Beijing, China

~~2020年9月21-22日~~ 2021年4月12-13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 (1/2)

**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.

- **Dates:** ~~21-22 September 2020~~ **12-13 April 2021**
- **Venue:** Renaissance Beijing Wangfujing Hotel, Beijing, China
- **Topics and domains:** complex systems of all industrial, high-tech and bank & service sectors
- **Keynotes theme:** Digital Transformation in Complex Systems Engineering

## 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

## Organizers



## 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

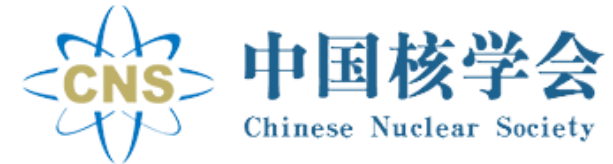
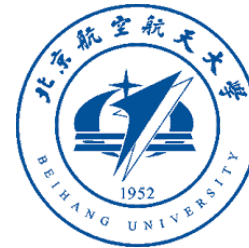


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CSD&MAsia

INTERNATIONAL CONFERENCE ON COMPLEX SYSTEMS DESIGN & MANAGEMENT (CSD&M) IN ASIA (2/2)

■ Co-operators or sponsors (by alphabetical order):



(more to come)

# 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** (法国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:

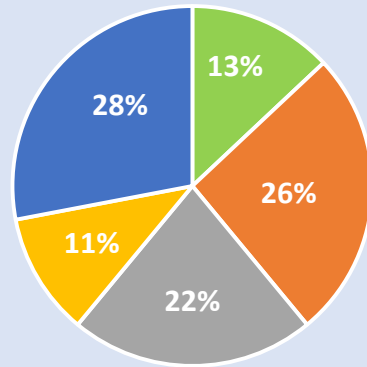


# Presentation of CSD&M Asia 2020

CSD&MAsia

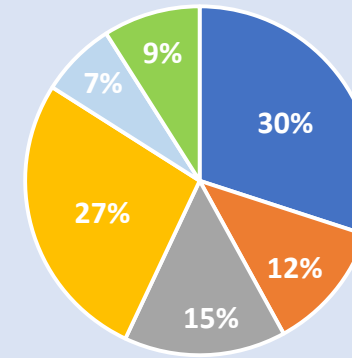
LAST EDITION CSD&M 2018 IN PARIS – PARTICIPATION

## 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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apsys  
SECURING YOUR BUSINESS

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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

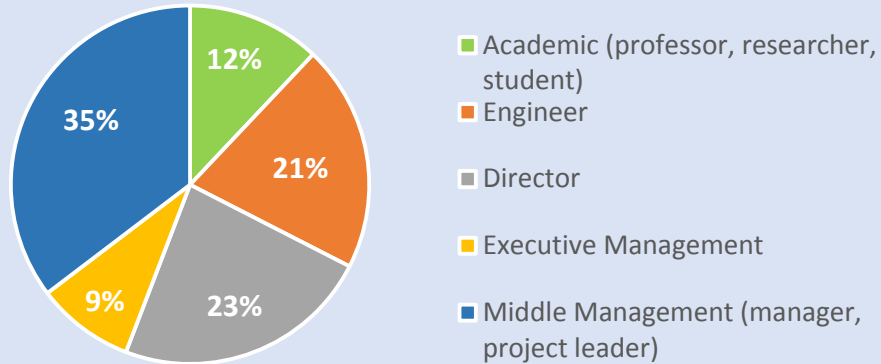
Schneider  
Electric

UNIVERSITY OF MINNESOTA

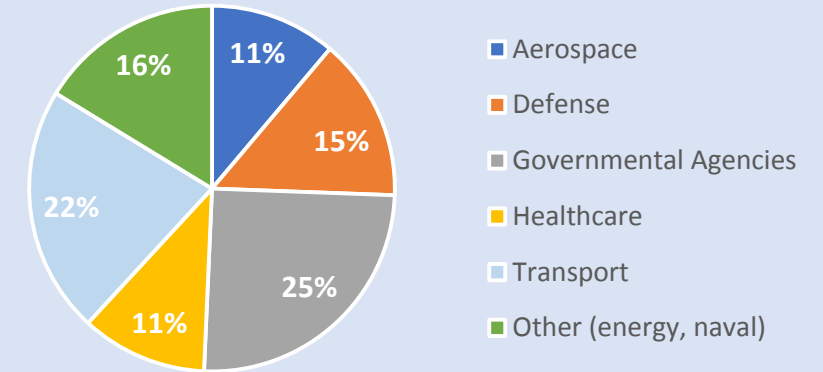
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LAST EDITION CSD&M ASIA 2018 IN SINGAPORE – PARTICIPATION

## 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>CHANG Chuangye</b>	Research Associate professor	Beihang University	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



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## 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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**Contact CESAMES:** [contact@csdm-asia.net](mailto:contact@csdm-asia.net)

Mr. TILMONT Christophe - WeChat ID: ctilmont / Mob.: +33(0)763188549

Ms. JWO Pearl 卓维珍 - WeChat ID: PearlJWO / Mob.: +33(0)650291481

**Contact CSAA:** [csaacsaa@126.com](mailto:csaacsaa@126.com)

Mr. YU Ce 余策

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



Please follow the conference by the web site:

[www.csdm-asia.net](http://www.csdm-asia.net)

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Event co-organized by

