# 中国航空学会文件

中航学字[2020]21号

## 中国航空学会关于召开第四届国际复杂系统设计与管理亚洲会议（CSD&M Asia)的通知（第二轮）

各有关单位及个人:

　　第四届国际复杂系统设计与管理亚洲会议（CSD&M Asia)将于2021年4月12-13日在北京召开。该会议由中国航空学会和系思迈系统架构协会（以下简称: CESAMES）联合主办，得到中国科协创新融合学会联合体大力支持，并由联合体成员中的7家全国学

会：中国兵工学会、中国宇航学会、中国核学会、中国造船工程学会、中国电子学会、中国仪器仪表学会以及中国复合材料学会协办。此外，中国航空工业集团有限公司、中国船舶工业系统工程研究院、清华大学工业工程系、北京航空航天大学等多家企事业单位参与协办。

复杂系统设计与管理（CSD&M）会议旨在为院校研究人员、工业和政府工作人员提供一个全球化的开放性平台，共同探讨基于模型的系统工程（MBSE）和工程数字转型。**会议的语言为英语。会议主题为"复杂系统工程数字转型"**。会议内容涵盖以下方面：

工业领域：航空、航天、船舶、防务和安保、汽车、通信和电子商务、电子和机器人、能源、环境、健康和福利服务、高科技、后勤和供应链、软件工业、城市和公共基础设施。

科学和技术主题：系统基本原理、系统架构和工程、基于模型的系统工程、基于模型的安全性分析、建模和仿真、工业应用大数据、系统优化、系统项目管理。

**会议在线注册正在进行中，欢迎有兴趣参会的个人与单位报名参与，具体事项通知如下：**

一、报名方式

请登录 https://xcx.csaa.org.cn/client/index.html 在线报名，并完成缴费。注册费标准如下：

| 注册类别 | 注册金额 |
| --- | --- |
| 会员及论文作者 | 5724 元 |

| 非会员 | 6360 元 |
|---|---|
| 学生 | 2650 元 |
| 论文集（可单独购买） | 750 元 |

以上会员指中国航空学会或 INCOSE 会员；**会议注册截止至巴黎时间 2021 年 4 月 1 日晚 12 点前，不接受现场报名和缴费**；注册费含会议资料、参会资格以及茶歇和午餐。会议晚宴 636 元/位，需另行购买。

二、注意事项

由中国航空学会开具发票。我会默认开具增值税普通发票**电子票**，内容为**"会议费"**。请报名时准确填写开票信息；如有其他要求，请务必于网上注册时一并提交。

会议欢迎所有有兴趣的个人和单位参与，不限于论文作者。

三、住宿问题

会议不安排统一住宿。会议酒店销售联系人方式如下，有意住宿者请自行联系订房：

北京金茂万丽酒店  段文娟  13910134091

四、大会日程

2021 年 4 月 11 日：

会议报到：北京金茂万丽酒店 1 楼大堂

地点：北京市东城区王府井大街 57 号

2021 年 4 月 12 日：

开幕式、大会报告、分组交流、海报及晚宴

2021 年 4 月 13 日：

大会报告、分组交流、INCOSE 北京峰会

具体大会日程详见附件，内容实时更新，最终以会议官网 http://csdm-asia.cn/及会议程序册为准。

五、联系方式

中国航空学会：

崔芷健（010）84924317　余策（010）84934114

邮箱；cuizjcsaa@163.com

附件：Program & Keynotes

| 中国航空学会 | 2021 年 3 月 11 日印发 |
|---|---|
| 联系人：余策　电话：01084934114 | 共印 20 份 |

附件1:

| **Agenda of the CSDM 2021**<br>**Program Day 1 - Monday the April 12th, 2021** | | | | |
|---|---|---|---|---|
| 8:00 | 9:00 | Welcoming coffee | | |
| 9:00 | 9:05 | Welcoming by the General Co-Chairs of CSDM Asia | | |
| 9:05 | 9:15 | Welcoming by the Organizing Committee Chair & the Program Committee Co-Chairs | | |
| 9:15 | 9:45 | VIP 1 - DE WECK Olivier (MIT) : Challenges and Opportunities for Complex Systems in a Global post-COVID-19 Society | | |
| 9:45 | 10:15 | VIP 2 - RAUZY Antoine (NTNU): Syntax, Semantics and Pragmatics, the Model-Based Systems Engineering Trinity | | |
| 10:15 | 10:45 | Coffee break & Sposnors Booths Visits | | |
| 10:45 | 11:15 | VIP 3 - ZHOU Fanli 周凡利 先生 (Suzhou TongYuan): Technology, Tools and Application of System Modeling and Simulation in MBSE | | |
| 11:15 | 11:45 | VIP 4 - CHEVALIER Thierry (Airbus): Global Approach to System of Systems | | |
| 11:45 | 12:45 | 3 Success Stories Sponsors: Dassault Systèmes… | | |
| 12:45 | 13:45 | Lunch break & Sponsors Booths visits & Preparation Posters | | |
| | | **Contributed Talks I** | **Contributed Talks II** | **Contributed Talks III** |
| 13:45 | 14:05 | Talk I-1: Model-Based Product Line Engineering with Genetic Algorithms for Automated Component Selection (WU Daphne or ONG | Talk II-1: Non-functional attribute modeling and verification method for integrated modular avionics system (GUO Peng) | Talk III-1: IMA Dynamic Reconfiguration Modelling and Reliability Analysis of tasks based on Petri net (YE Zhiao) |
| 14:05 | 14:25 | Talk I-2: Supporting Automotive Cooling and HVAC Systems Design Using a SysML-Modelica Transformation Approach (FORLINGERI Marco | Talk II-2: MBSE Adoption for Cabin Temperature Control System Design of Civil Aircraft (YE Junjie) | Talk III-2: Closed-Loop Systems Engineering – Supporting Smart System Design Adaption by Integrating MBSE and IoT (DICKOPF Thomas) |
| 14:25 | 14:45 | Talk I-3: Model-Based Airplane Energy Management (ZHAN Chao) | Talk II-3: A Design of Commercial Aircraft Health Management Using N-F-R-P Process (CHANG Shuo) | Talk III-3: Ontology for Systems Engineering Technical Processes (CHANG Chuangye) |
| 14:45 | 15:05 | Talk I-4: A parallel Verification approach for new technology application in complex radar system (WEI Yao) | Talk II-4: Aircraft-Cable Fault Location Technology Research Based on Time Domain Reflectometry (WANG Danyang) | Talk III-4: An optimization method for calibrating wireline conveyance tension (JIN Can & PENG Xin ) |
| 15:05 | 16:05 | Coffee break & Sponsors Booths visits & Posters Session (1/2) | | |
| | | **Contributed Talks IV** | **Contributed Talks V** | **Contributed Talks VI** |
| 16:05 | 16:25 | Talk IV-1: Towards automated GUI design of display control systems based on SysML and Ontologies (SU Jin) | Talk V-1: Boost System of Systems Modeling via UPDM: A Case Study from Air Traffic Management (SHEN Huanhuan) | Talk VI-1: Quality Infrastructure System in China: An Agent-based Model (NI Shiying) |
| 16:25 | 16:45 | Talk IV-3: Integrated Digital MEMS Design For Movement-Control System (DUAN Chuanbao) | Talk V-2: A Model-based Requirements Analysis Method for Avionics System Architecture (CHEN Cong & SHEN Jieshi) | Talk VI-2: An Overview of Complex Enterprise Systems Engineering: Evolution and Challenges (WANG Ridong) |
| 16:45 | 17:05 | Talk IV-4: A Deep Learning and Ontology Based Framework for Textual Requirements Analysis and Conceptual Model Generation (SHEN | Talk V-3: A Preliminary Research on Zonal Safety Analysis Method for Aircraft Complex Systems by Using Virtual Reality and Augmented | Talk VI-3: Research on the method of association mapping between service architecture design and service component development (ZHAN Zhijuan) |
| 17:05 | 17:25 | Talk IV-5: Realizing digital systems engineering - aerospace & defense use case (GERY Eran and/or YEE Victor ) | Talk V-4: Model-Based System Engineering Adoption for Trade-off Analysis of Civil Helicopter Fuel Supply System Solutions (LIU Weihao) | Talk VI-4: A MBSE-based Development Life Cycle for Reconnaissance, Early-Warning, and Intelligence Equipment System-of-Systems (ZHENG Weiwei) |
| 17:25 | 18:30 | Coffee break & Posters Session (2/2) | | |

| | | | | |
|---|---|---|---|---|
| 18:30 | 20:30 | **Conference Dinner** | | |

## Agenda of the CSDM 2021 & DS Workshop & INCOSE Beijing Summit

| | | | | |
|---|---|---|---|---|
| **8:00** | **8:45** | Welcoming coffee | | |
| | | **Contributed Talks VII** | **Contributed Talks VIII** | **Contributed Talks IX** |
| 8:45 | 9:05 | Talk VII-1: Proposal of assuarance case description method in design for environment (SHIBUYA Kenichi) | Talk VIII-1: A model-based aircraft function analysis method: from operational scenarios to functions (ZHANG Yuchen) | Talk IX-1: Design of test flight mission planning&playback verification system based on STK ( CHEN Gang & SHEN Jiachi) |
| 9:05 | 9:25 | Talk VII-2: An MBSE framework for Civil Aircraft Airborne System Development (HUANG Xing) | Talk VIII-2: Advanced helicopter cockpit ergonomic design concepts (MU xiaowei) | Talk IX-2: Acknowledged SoS Architecture Design based on Agent-Based Modelling (LI Lefei) |
| 9:25 | 9:45 | Talk VII-3: Collaborative Engineering method for More Electric Aircraft (MEA) – Tradeoffs and informed decision-making process (IMBERT Jean-Rémy) | Talk VIII-3: A quantitative analysis Method of itemized requirement traceability for aircraft development (LIANG Dong) | Talk IX-3: Research on Behavior Modeling and Simulation of Complex UAV Based on SysML State Machine Diagram (LU Yuanjie) |
| **9:45** | **10:30** | Coffee break & Sponsors booths visits | | |
| 10:30 | 11:30 | 3 Success Stories Sponsors | | |
| 11:30 | 12:00 | VIP 5 - ZHANG Wenfeng 张文丰女士 (Institute of Aerospace System Engineering): MBSE paradigm - Accelerating enterprise digital transformation in aerospace industry | | |
| 12:00 | 12:30 | VIP 6 (online if travel not allowed) - LUNNEY Kerry (Thales/INCOSE Global): Over the Horizon with Systems Engineering | | |
| 12:30 | 12:35 | Conclusion CSD&M 2021 and Announcement INCOSE Beijing Summit | | |
| **12:35** | **13:30** | Lunch break & Sponsors booths visits | | |
| 13:30 | 14:00 | **INCOSE VIP 1 - ZHANG Xinguo 张新国博士 (Tsinghua/INCOSE Beijing)** | | |
| 14:00 | 14:30 | INCOSE VIP 2 - LUI Pao Chuen 雷普权教授 (NUS/National Research Foundation SG): Growing Smart Cities in Nature | | |
| **14:30** | **15:00** | Coffee break & Sponsors booths visits | | |
| 15:00 | 15:30 | INCOSE VIP 3 - KROB Daniel (CESAMES): Systems Engineering at Enterprise Scale: A Success Story in the Automotive Industry | | |
| 15:30 | 16:00 | INCOSE VIP 4 - LANDRY Serge (Equilibrante Force / INCOSE Asia-Oceania Secter): Digital Transformation in Complex System Engineering - Mind the gaps | | |
| 16:00 | 16:30 | | | |
| 16:30 | 17:00 | **Conclusion INCOSE Beijing Summit and Presentation CSD&M 2022** | | |
| **17:00** | | End of Event | | |
| | | Link for the list of posters<br>Contact us: contact@csdm-asia.net<br>www.csdm-asia.cn<br>www.csdm-asia.net | | |