

Agenda of the 4th CSD&M Asia (CSD&M 2021) in Beijing & Online Program Day 1 - Monday the April 12th, 2021			
08:00	09:00	Welcoming Desk for Conference Card & Bag and Coffee	
CSD&M Chairs Welcoming and 1st Keynotes Plenary / Chair: GONG Minyan (CESAMES)			
09:00	09:05	Welcoming by the General Co-Chairs ZHANG Xinguo and KROB Daniel	
09:05	09:15	Welcoming by the Program Committee Co-Chair LI Lefei (representing the OC Chair YAO Junchen and PC co-chair ZHANG Hongjun)	
09:15	09:45	VIP 1 - DE WECK Olivier (MIT INCOSE Fellow) : Challenges and Opportunities for Complex Systems in a Global post-COVID-19 Society	
09:45	10:15	VIP 2 - RAUZY Antoine (NTNU): Syntax, Semantics and Pragmatics, the Model-Based Systems Engineering Trinity	
Coffee Break & Sponsors Booths Visit			
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	
VIP 4 - CHEVALIER Thierry (Airbus): Global Approach to System of Systems			
11:45	12:45	3 Success Stories Sponsors: Dassault Systèmes: "Simplifying complexity through Model Based Systems Engineering" by WU Daphne (Consultant Systems Center Competency China) - SIEMENS: "MBSE: "A proposed framework for architecting digital twin of complex systems" by Dr. FANG Zhigang (Vice President & CTO) and ZHANG Qili (MBSE Technical Director) - PGM: "Practice of ARCADIA and Capella in Civil RADAR Design" by Mr. XU Renfei (MBSE Director)	
Lunch Break & Sponsors Booths Visit & Preparation Posters			
13:45	15:05	Contributed Talks I / Chair: LI Lefei (Tsinghua) / Room A	Contributed Talks II / Chair: GUO Mengyu (Tsinghua) / Room B
13:45	14:05	Talk I-1: Model-Based Product Line Engineering with Genetic Algorithms for Automated Component Selection (WU Daphne or ONG Robert)	Talk II-1: Non-functional attribute modeling and verification method for integrated modular avionics system (GUO Peng)
14:05	14:25	Talk I-2: Supporting Automotive Cooling and HVAC Systems Design Using a SysML- Modelica Transformation Approach (FORLINGERI Marco and YAN Junjie)	Talk II-2: MBSE Adoption for Cabin Temperature Control System Design of Civil Aircraft (YE Junjie)
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)
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)
Contributed Talks III / Chair: CHANG Chuangye (Beihang) / Room C			
13:45	14:05	Talk III-1: IMA Dynamic Reconfiguration Modelling and Reliability Analysis of tasks based on Petri net (YE Zhao)	
14:05	14:25	Talk III-2: Closed-Loop Systems Engineering – Supporting Smart System Design Adaption by Integrating MBSE and IoT (DICKOPF Thomas)	
14:25	14:45	Talk III-3: Ontology for Systems Engineering Technical Processes (CHANG Chuangye)	
14:45	15:05	Talk III-4: An optimization method for calibrating wireline conveyance tension (JIN Can & PENG Xin)	
Coffee Break & Sponsors Booths Visit & Posters Session 1/2 (Click this line to see the full list of 20 Posters)			
16:05	17:25	Contributed Talks IV / Chair: LI Lefei / Room A	Contributed Talks V / Chair: GUO Mengyu / Room B
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)
16:25	16:45	Talk IV-2: Integrated Digital MEMS Design For Movement-Control System (DUAN Chenglong)	Talk V-2: A Model-based Requirements Analysis Method for Avionics System Architecture (CHEN Cong & SHEN Jieshi)
16:45	17:05	Talk IV-3: A Deep Learning and Ontology Based Framework for Textual Requirements Analysis and Conceptual Model Generation (SHEN huanhuan)	Talk V-3: A Preliminary Research on Zonal Safety Analysis Method for Aircraft Complex Systems by Using Virtual Reality and Augmented Reality (LI Tao & YE Bo)
17:05	17:25	Talk IV-4: Realizing Digital Systems Engineering (GERY Eran and YEE Victor)	Talk V-4: Model-Based System Engineering Adoption for Trade-off Analysis of Civil Helicopter Fuel Supply System Solutions (LIU Weihao)
Contributed Talks VI / Chair: CHANG Chuangye / Room C			
16:05	16:25	Talk VI-1: Quality Infrastructure System in China: An Agent-based Model (NI Shiyong)	
16:25	16:45	Talk VI-2: An Overview of Complex Enterprise Systems Engineering: Evolution and Challenges (WANG Pidong)	
16:45	17:05	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 VI-4: A MBSE-based Development Life Cycle for Reconnaissance, Early-Warning, and Intelligence Equipment System-of-Systems (ZHENG Weiwel)	
Posters Session 2/2			
End of 1st Day / Announcement Conference Dinner and 2nd Day starting from 8:45			
18:30	20:30	Conference Dinner for those who registered	
Agenda of the 4th CSD&M Asia (CSD&M 2021) with Dassault Systèmes Workshop & INCOSE Beijing Summit Program Day 2 - Tuesday the April 13th, 2021			
Welcoming Desk for Conference Card & Bag and Coffee			
08:45	09:45	Contributed Talks VII / Chair: LIU Tong Long (Nortek) / Room A	Contributed Talks VIII / Chair: ZHANG John (Huawei) / Room B
08:45	09:05	Talk VII-1: Proposal of assurance 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)
09:05	09:25	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)
09:25	09:45	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)
Coffee Break & Sponsors Booths Visit			
10:30	12:45	CSD&M 2nd Keynotes Plenary / Chair: GONG Minyan (CESAMES)	
10:30	11:30	3 Success Stories Sponsors: AVIC CARERI: "Model-based design method and practice for avionics system" by Mr. GAO Lei (vice president) - AVIC FACRI: "Deploy system engineering methods in airborne GNC domain" by Mr. WU Fangfang (vice chief engineer) - IBM: "Integrated Digital Twin over Product Life-cycle" by Mr. GERY Eran (Global Industry Solutions Lead, IBM Engineering Solutions)	
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	
VIP 6 (online if travel not allowed) - LUNNEY Kerry (Thales / INCOSE Global): Over the Horizon with Systems Engineering			
Conclusion CSD&M 2021/Announcement CSD&M 2022 and Announcement INCOSE Beijing Summit			
Lunch Break & Sponsors Booths Visit			
INCOSE Beijing Summit / Chair: GUO Mengyu (Tsinghua / INCOSE Beijing)			
INCOSE VIP 1 - ZHANG Xinguo 张新国博士 (Tsinghua / INCOSE Beijing): Essence of MBSE Transformation - System Conceptual Integrity and Layered Mapping			
INCOSE VIP 2 - LUI Pao Chuen 雷晋权教授 (NUS / National Research Foundation SG): Growing Smart Cities in Nature			
Coffee Break & Sponsors Booths Visit			
INCOSE VIP 3 - KROB Daniel (CESAMES / INCOSE Fellow): Systems Engineering at Enterprise Scale: A Success Story in the Automotive Industry			
INCOSE VIP 4 - LANDRY Serge (Equilibrante Force / INCOSE Asia-Oceania Sector): Digital Transformation in Complex System Engineering - Mind the gaps			
Conclusion INCOSE Beijing Summit 2021			
Sinceres Thanks and Farewell to All			
End of Event / See You at CSD&M 2022 in France (soon on www.cesames.net or www.cesames.cn)			
Official website CSD&M 2021: www.csdm-asia.cn or www.csdm-asia.net / Email: contact@csdm-asia.net			

CSD&M 2021 - Posters Session 1/2 and 2/2 on Monday 12 April 2021 15:05 - 16:05 and 17:25 - 18:30 at the conference lobby

A detailed process for aviation systems requirements analysis and definition via model-based approach	LI Teng
A Prediction Method for Gas Turbine Overhaul Makespan with Uncertainties	LI Tao and CHEN Zhen
A Preliminary Research on Performance Prediction Model of Catapult Launched Take-off for A Large Wingspan Unmanned Aerial Vehicle	XIONG Hongrui
Application of Data bus-based Software Architecture in Wind Turbine Control Software	CUI Meiyu
Application of Model Based System Engineering in Hydraulic Energy System Design	TONG Xiaolong
Architecture Design of High Safety Helicopter Flight Control System with a Direct Control Mode	TENG Liqiang
Design Method of Aviation Architecture Based on Model Base	ZHAN Xue
Experiences with Applying Scenario-Based Approach to Refine Aircraft Stakeholder Requirements	ZHU Wenhao
Formal Modeling and Correctness Proof of Spatial Partition Algorithm	ZHU Liping
Integrated Configuration management based on System Engineering	YANG Yi and HUI Wei
Model Driven Verification of Airplane Scenarios, Requirements and Functions	ZHAN Chao and ZHANG Yanbo
Optimal Design of Airborne Test System Based on Model Analysis	LI Xiaolin
Practice of ARCADIA and Capella in Civil Radar Design	XU Renfei and FANG Wenhua
Research on distributed Harmony-SE model integration method for complex UAV system	LU Yuanjie
Research on Multi-disciplinary Integrated Design Method of Remote Sensing Satellites	WU Yongsheng
Research on Multi-Physical Modeling and Co-Simulation of Aircraft	REN Liqiang
Research on Practice Methods of Complex Aircraft Requirement Management	KAN Dong
Retrospect and prospect of aircraft comfort design	LI Peng
SoS Architecture Models Transformation for Mission Simulation in Aircraft Top-level Demonstration	ZANG Jing
The Application Research of System Cooperative Design Engineering Based on MSFC Architecture	XU Hongjie

Official website CSD&M 2021: www.csdm-asia.cn or www.csdm-asia.net / Email: contact@csdm-asia.net