

The background of the slide is a night-time photograph of the Eiffel Tower in Paris, France. The tower is illuminated with golden lights. In the foreground, there are horizontal light trails from cars, with red and blue streaks indicating motion. The overall scene is dark, with the tower and light trails providing the primary illumination.

CSD&M 2022

Sponsorship Offers

13th International Conference
Complex Systems Design & Management

CESAMES系思迈2022年的国际复杂系统设计与会议

15-16 December 2022
Paris, France

Introduction



Daniel KROB

Creator and General Chair of CSD&M
Institute professor, Ecole Polytechnique
President of CESAMES
INCOSE Fellow

The 13th edition of the international conference «Complex System Design & Management» (CSD&M 2022) will take place next December 15-16 in Paris.

CSD&M was created in France in 2010 by **Prof. Daniel KROB** and has been organized every year by the French non-profit organization **CESAMES**, with guidance & support of the Dassault Aviation – DCNS – DGA – Thales « Complex Systems Engineering » industrial chair of Ecole Polytechnique.

CSD&M is now one of the key event of the system engineering community in Europe and Asia. The Complex Systems Design & Management (CSD&M) conference is an international academic-industrial-governmental transversal forum for all actors working on complex industrial systems.

The conference gathers the main academic, governmental and industrial actors, CSD&M is one of the few places where you can talk about industrial complex systems in as broad a manner as possible (methods, tools, sciences, business cases...).

CSD&M 2022 will be held on 2 days. Speakers, partners, academics and industrial participants will have numerous opportunities to exchange.

Details on: <https://cesam.community/en/csdm-paris-2022/>

Committees of the CSD&M 2022



General Chair of the CSD&M 2022:
KROB Daniel
CESAMES
France

ORGANIZING COMMITTEE (OC)



OC Co-Chair:
FANMUY Gauthier
Dassault Systèmes
France



OC Co-Chair:
YAO Junchen
CSAA
China

PROGRAM COMMITTEES (PC)



Academic PC Co-Chair:
BARON Claude
LAAS-CNRS, INSA, Université
de Toulouse
France



Industrial PC Co-Chair:
FERROGALINI Marco
Airbus
France

Organizing Committee Members 1/2

Name	Institution	Country
ARBARETIER Emmanuel	APSYS	FR
BONJOUR Eric	Graduate School in Innovation and Systems Engineering (ENSGSI) of Université de Lorraine	FR
BOURGUIGNON Philippe	ENGIE	FR
BOY Guy-André	ESTIA INSTITUTE OF TECHNOLOGY	FR
CAO Xueqin	Chinese Institute of Electronics (CIE)	CN
CHEVALIER Thierry	Airbus	FR
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Organizing Committee Members 2/2

Name	Institution	Country
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WANG Junli	Chinese Society of Naval Architects and Marine Engineers (CSNAME)	CN
WANG Yiran	Chinese Society of Astronautics (CSA)	CN
ZHANG Jian	China Instrument and Control Society (CIS)	CN

Program Committee – Academic Members

Name	Academy	Country
BONJOUR Eric	Graduate School in Innovation and Systems Engineering (ENSGSI) of Université de Lorraine	FR
CAILLAUD Emmanuel	Conservatoire National des Arts et Métiers (CNAM)	FR
DACLIN Nicolas	IMT Mines Ales	FR
DE WECK Olivier	Massachusetts Institute of Technology (MIT)	US
LI Lefei	Industrial Engineering Department of Tsinghua University	CN
LEVESON Nancy	Massachusetts Institute of Technology (MIT)	US
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WADE John	University of California San Diego	US

Program Committee – Industrial Members

Name	Institution	Country
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CAPONE Alexandre	CapGemini	FR
FUCHS Joachim	European Space Agency (ESA)	NL
GUILLERMO CHALE Hugo	Thales	FR
LORGEUX Didier	Dassault Systèmes	FR
MURNIN Tim	Amazon	US

More to come...

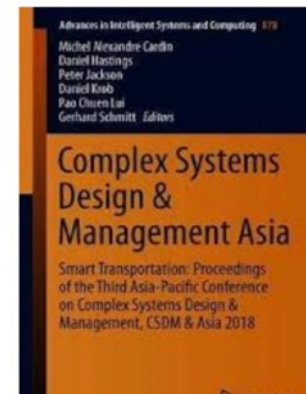
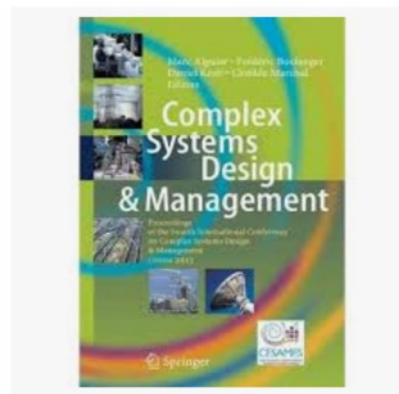
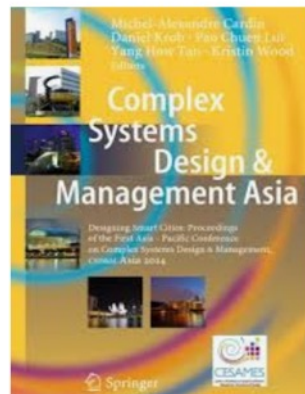
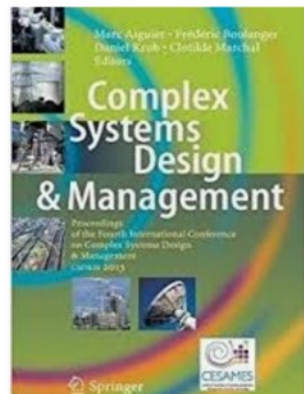
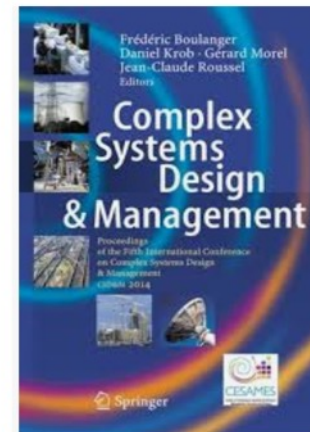
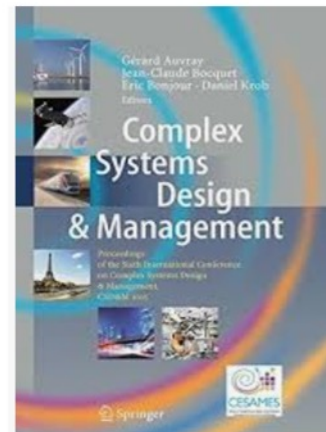
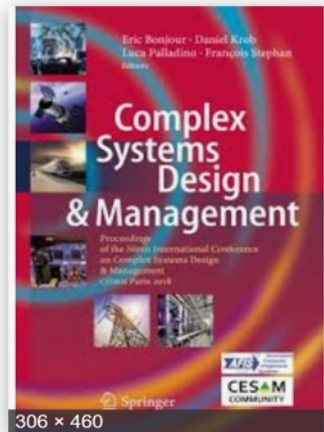
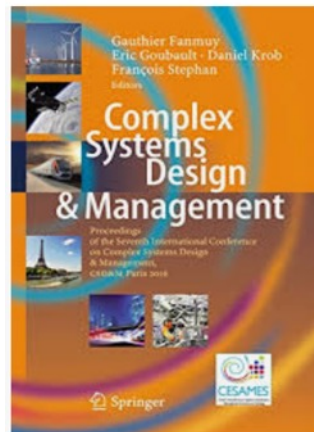
CSD&M Conference Scope

The conference “**Complex Systems Design & Management**” (CSD&M) is the International meeting point for academic researchers, industrial and governmental players working on complex industrial systems architecture & engineering and **interested in Model-Based Systems Engineering**. This event gives the opportunity to present and learn about innovative, methodological and technical results or good practices, feedbacks and professional case studies on industry, sciences and systems types.

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

CSD&M Publication Policy

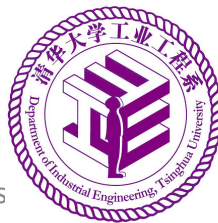
The proceedings of CSD&M are published by Springer Verlag in dedicated book series, and referenced & indexed in DBLP, EI Compendex, ISI Clarivate and Scopus, examples below:



CSD&M Former Partners & Participants 1/2



CSD&M Former Partners & Participants 2/2 (in alphabetical order, not exhaustive)



CSD&M Program

2 days in Paris to exchange about societal & industrial challenges and scientific & methodological state of the art in the field of systems modelling and management.

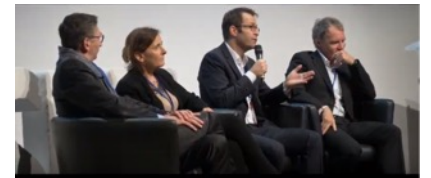
Keynotes presentations in plenary session, pitch startups, thematic & sectoral tracks and numerous teams selected to present their academic or professional works

One Poster Session to promote some work in progress and discuss on topics related to complex systems

More than 300 international attendees (academics, industrials, french and international), main actors of the international systems engineering community, at the heart of your sales target

Demonstrations and booths to present offers, services and the latest technological news

Numerous opportunities for networking



Become a Partner

CSD&M 2022 - VISIBILITY BEFORE THE EVENT 15-16 DEC. 2022



Web Site

Logo and link on the conference website:
<https://cesam.community/en/csdm-paris-2022/>



Emailing Campaigns

Logo on our monthly emailing campaigns (reaching ≥20000 contacts)



Social networks

Posts on CESAMES's social networks (LinkedIn, WeChat and Weibo) to highlight your participation (reaching ≥10000 followers)



Event

Name on the conference proceedings and logo on the CSD&M flyers, distributed during the event

Venue: Elysées Biarritz

IN DOWNTOWN PARIS: 22-24 RUE QUENTIN-BAUCHART, 75008 PARIS



Become a partner (on-site)

CSD&M 2022 - VISIBILITY DURING AND AFTER THE EVENT 15-16 DEC. 2022



Logo & Inserts & Banners

The conference proceedings published ISBN and referenced EI, ISI, DBLP and Scopus will last forever/ Inserts on the welcoming pack (leaflets, goodies) for all the participants and logo on the conference material (program, banners, presentation)

Plenary Talk & Live Network

Case study or customer testimonial success story during the plenary session or Contributed Talks Posters Session, coffee & lunch breaks are key moments to capture attention

Booth & Business Opportunities

Booth displaying the latest offers and technologies will allow interactions and business opportunities

Name remained in conference proceedings and communications of the CESAM Community

Sponsors' names on the conference proceedings published ISBN will last forever and mentioned often at CESAM's events

Program - Day1 - Morning

9h00	Keynote (more information to come)
Contributed talks (20' each)	
#1 theme: How to engage and perform a digital transformation within your eco-system	
Paths and experience feedbacks on digital transformation initiatives withing an organization or with the eco-system	
9h30	→ <u>GIFAS-AFIS Crisee : Generic Collaborative Process Framework for simpler and efficient SE at extended enterprise level</u> Airbus - ArianeGroup Christophe Ducamp, Gerald Pignie and Pierre de Chazelles
9h50	Talk #2
10h10	→ <u>An MBSE Implementation Process Framework Based on Multiple Modeling Capability Stages</u> China Helicopter Research and Development Institute Yuqiang Guo, Shuhuan Sun, Hui Zhao and Jin Li
10h30	→ <u>Europe's Rail Joint Undertaking: System Pillar</u> Europe's Rail Joint Undertaking Ian Conlon
COFFEE BREAK	
Contributed talks (20' each)	
11h20	→ <u>Systems Engineering Journey on ATLAS Program</u> AFIS - AFNeT Services Pascal Hubert, Pierre Faure, Jean Brangé and Jean-Luc Garnier
11h40	→ <u>Research on Advanced Avionics System Architecture Technology</u> China National Aeronautical Radio Electronics Research Institute Jinyan Wang, Qing Zhou and Mingren She
12h00	→ <u>On the use of Artificial Intelligence for Product-Service Systems</u> Thales Hugo Guillermo Chalé Gongora, Juliette Mattioli and Pierre-Olivier Robic
12h20	Talk #8
LUNCH BREAK	

Program - Day1 - Afternoon

14h00	Keynote (more information to come)
Contributed talks (20' each)	
#2 theme: Modeling and Simulation Systems Engineering practices	
Best practices for model-based techniques in a modeling and simulation (MODSIM) approach, to specify, analyze, design and verify systems	
14h30	→ Extending Model-Based Systems Engineering with Requirements-In-the-Loop Simulation: The Landing Gears Case-Study Dassault Systemes Fabien Gaucher
14h50	→ Towards Model-Based Functional Hazard Assessment (FHA) with UML University of Toronto - Safran Landing Systems Kimberly Lai, Thomas Robert, David Shindman and Alison Olechowski
15h10	→ Maritime stakeholder model-based decision-making for accelerated adoption of autonomous vessels by analyzing tradeoffs in R&D investment, manufacturing, and operational experience The University of Tokyo - ClassNK - Mitsui O.S.K. Lines, Ltd. - Massachusetts Institute of Technology Takuya Nakashima, Tomohiro Sugimoto, Keisuke Kimura and Bryan Moser
15h30	→ Reverse Engineering of a CubeSat with MBSE Airbus - Samares Engineering Raphael Faudou, Julie De Sousa, Jean-Luc Marty and Marie-Hélène Deredempt
COFFEE BREAK & POSTER SESSION (see details below)	
Contributed talks (20' each)	
16h50	→ The Need to Simultaneously Consider Modularization and Interface Design during Systems Architecting: an Exploration of their Joint Impact on System Performance and Cost The George Washington University Taylan Topcu and Zoe Szajnfarber
17h10	→ Enabling multidisciplinary-analysis of SysML models in a heterogeneous tool landscape using Parametric Analysis Models Airbus Central R&T Philipp Helle, Gerrit Schramm, Sergio Feo-Arenis and Sönke Klostermann
17h30	→ Spiral Approach for SE Research (SASER) - mating research to practice - University of Twente G.Maarten Bonnema, Marcus V. Pereira Pessoa and Kostas Nizamis
17h50	→ Prerequisites for an MBSE adoption support approach Airbus - ERPI - IAE Lyon School of Management Léa Kozak, Frederique Mayer, Eric Bonjour, Jean-Pierre Micaelli and Arnaud Riviere
18h10	→ Kalman Filtering for SAR Satellite Yaw Steering Aviation Industry of China (AVIC) - Airforce Engineering University Yongfei Ding, Dinghai Xu, Yu Li, Zheng Fang, Tao Chen and Hengyang Zhang
18h30	End of day one

Program - Day2 - Morning

9h00	Keynote (more information to come)
Contributed talks (20' each)	
#3 theme: Building sustainable, secured, evolutive and resilient systems	
System architecting methods to adress new expected system perspectives such as security, sustainability, resiliency and scalability	
9h30	→ Resilience Assessment of Industrial Processes within the Aircraft Industry Fraunhofer EMI - Airbus / Central R&D, Virtual Product Engineering, 1RXV - INATECH, University of Freiburg Kai Fischer, Andreas Mitschke, Oliver Klaproth, Arnd Schirrmann and Alexander Stolz
9h50	→ A Model-Based System Engineering approach for Multi-Disciplinary Analysis and Design Optimisation processes definition IRT Saint Exupery - Airbus Operations - Capgemini- Expleo Group Romaric Demachy, Mickael Guillen, Anne Gazaix, Vincent Ambert, Jean-Christophe Giret, Louis Jayez and Joël Brezillon
10h10	→ Systems Engineering Digital Thread – An end-to-end holistic approach from Mission to Physical Dassault Systèmes Gauthier Fanmuy, Arnaud Durantin and Pierre-Yves Boyer
10h30	→ Research on the Architecture of Military Helicopter Requirements Demonstration Based on System Engineering China Helicopter Research and Development Institute Benchao Lou, Qiang Sun and Fang Chen
COFFEE BREAK	
Contributed talks (20' each)	
11h20	→ Methods for Extracting Structured Data from Engineering Requirements using Natural Language Processing Airbus - Massachusetts Institute of Technology Johannes Norheim, Shao Lim, Alain Kerbrat and Eric Rebentisch
11h40	→ Theory and Practice on Architecture Design and Performance Evaluation of Civil Avionics System based on Model China National Aeronautic Radio Electronics Research Institute Haiyong Dong, Qingfan Gu and Hao Rong
12h00	→ Adaptative Workflows for Process Management IMT, Mines-Ales - Holy Spirit University of Kaslik (USEK) Charbel Kady, Francois Troussel, Nicolas Daclin, Gregory Zacharewicz, Charles Yaacoub and Adib Akl
12h20	→ Knowledge management in consulting firms: a survey for designers CentraleSupélec - Sibylone Mohammadreza Mirafzal, Piyush Wadhwa and Julie Stal-Le Cardinal
LUNCH BREAK	

Program - Day2 - Afternoon

14h00	Keynote (more information to come)
14h30	→ <u>Analysing the Scaled Agile Framework (SAFe) from an Organizational and Strategic Research Point of View</u> Universiteit Antwerpen - Engie Geert Haerens
14h50	→ <u>RAMI Toolbox: A Framework enabling Model-based Systems Engineering of complex Flexible Production Systems</u> Salzburg University of Applied Sciences - Siemens Technology - FH Salzburg - Otto-v.-Guericke University Christoph Binder, Ambra Calà, Jan Vollmar, Boris Brankovic, Christian Neureiter and Arndt Lüder
15h10	→ <u>Tactical Agents System for Sensor Suites</u> Thales Ludovic Grivault
COFFEE BREAK	
Contributed talks (20' each)	
#4 theme: Means and methods to integrate humans in virtual playgrounds	
<i>Integration of the human as a virtual twin into the system to better anticipate increasing system complexity and autonomy</i>	
16h00	Industrial talk Dassault Systemes
16h20	→ <u>Implementing Systems Thinking for a Complex System via Experiential Learning</u> Purdue University - Air Company Nicholas Steinke and C. Robert Kenley
16h40	→ <u>Exploring and setting up the methods to benefit from synergies between an agile project development and systems engineering</u> ArianeGroup Arthur Schmitt and Bruno Ferard
17h00	→ <u>An approach for exploring non-technical complexity in engineering design processes</u> University of Twente Younjung Choi, Gisela Garza Morales, Marcus Pereira Pessoa and Maarten Bonnema
17h20	End of day two

Become a partner



CSD&M 2022 - 15-16 DECEMBER 2022 – SPONSORSHIP OPTIONS (1/2)

Offers / Packs	Bronze pack	Silver pack	Platinum pack	Diamond Pack*
Before the event				
Logo on all the conference materials (website, flyers, monthly emailing campaigns) and link on the conference website	X	X	X	X
During the event				
Logo on all the conference material (banners, slides, program)	X	X	X	X
Insert into the welcoming pack (leaflet or goodie) for all the participants	X	X	X	X
Free registrations for your staff, including 2-day access to the conference	Access to replays*	2 on site + Access to replays	4 on site + Access to replays	6 on site + Access to replays
30 % discount on other registrations (for your partners and customers)		X	X	X
Regular booth: one table, 2 chairs		X		X
Large booth: two tables, 4 chairs (contact for more details)			X	
After the event				X
Logo on the conference materials, community event's presentations and name on the conference proceedings	X	X	X	X
List of registered participants (first name, last name, job title, company, email) ¹		X	X	X
Total cost with VAT (6% tax included)	14,500 RMB	32,500 RMB	58,000 RMB	79,500 RMB

***IMPORTANT:** this year the conference will be held 100% on site

For sponsors ONLY, a dedicated webpage will be accessible with all replays of conference presentations.

Full access is granted to sponsors for 6 months after the conference

*(delegation pack with business meeting)

¹ Participants who agreed to share their contact information (UE GDPR)

Become a Partner

CSD&M 2022 - 15-16 DECEMBER 2022 – SPONSORSHIP OPTIONS (2/2)

Offers for your partners

If your organization wishes to invite some partners to attend the event by registering as participants, we would be pleased to provide you with:

Delegation Packages	Total cost
Registration of 5 to 10 persons	- 10 % on each registration
Registration up to 10 persons	- 20 % on each registration



Conference Registration Fees

ACADEMIC/NON PROFIT ORGANIZATION	No INCOSE Member	INCOSE Member & Selected Authors	INDUSTRIAL	No INCOSE Member	INCOSE Member & Selected Authors
Early Bird fees until August 31, 2022	2,200 RMB (≈ 315 €)	2,000 RMB	Early Bird fees until August 31, 2022	4,600 RMB (≈ 665 €)	4,000 RMB
Standard fees	3,200 RMB (≈ 450 €)	3,000 RMB	Standard fees	6,600 RMB (≈ 950 €)	6,000 RMB

To register: <https://cesam.community/en/csdm-paris-2022/#register>



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微信: CESAMESChina



中国航空学会联系: 崔芷健小姐

电子邮件: cuiwjcsaa@163.com

电话 (北京): 010-84924317

微信: CZJ1014Cui (or by mobile:
17888834535)

IMPORTANT DATES - CSD&M 2022

Conference dates: 15-16 December 2022

Conference venue: Online & On-site (Elysées Biarritz Paris 8^{ème}
Champs-Élysées 巴黎香榭大道区)

Conference contact: contact@csdm.fr

**Conference Call for Participations (early-bird price available until
the August 31st, 2022):**

<https://cesamcommunity/en/csdlm-paris-2022/>