Monday, October 24



	Ballroom A	Ballroom B
8.20-10.30	Symposium opening session and keynote speech	
10:30 - 11:00	COFFEE BREAK	
11:00 - 12:40	1B1- System Thinking Benefits 1570822382 - Systems Thinking and Model Based Systems Engineering's	1B2- Agile Development Methods
	Utility to Solve Complex Organizational Problems - Cyber-Physical System Design Teams	1570815054 - Transfer of DevOps to Multi-Disciplinary Systems
	1570822262 - Building a Semantic Layer for Early Design Trade Studies in the Development of Commercial Aircraft	1570818050 - Analysis of the criteria for comparing Systems Engineering and agile methods
	1570826825 - How does Systems Thinking support the understanding of complex situations?	1570822200 - Agile Systems Engineering in Regulated Industries 1570821165 - Functional Performance Metric as Effort Prediction
	1570829316 - Safety Management Complexity: A Systems Thinking Approach	
12:40 - 13:50	LUNCH BREAK	
	1C1 - Engineering processes and systems	1C2 - Systems Societal impact
13.50-15.30	1570815109 - Risk Identification with Entity Attributes Diagrams in Business Process Modeling	1570805579 - Exploring doctors' satisfaction with electronic health records and its features: A nationwide survey study
	1570819254 - Overview of the Engineering Change Management Process	1570822311 - Upgrading Approach for MaaS Level 4 Using UAF
	in a Complex Multi-Domain System 1570822010 - The Capability Concept in the Context of Systems of Systems: A Systematic Literature Review	1570822370 - Citizen sensing system optimization for infrastructure monitoring: developing community currency model which incentivizes behavior changes of "citizen sensors"
	1570822348 - Integration of technical processes: practical examples from the experiences made for the design of ITER fusion reactor systems	1570821913 - Methods for Developing Successful Systems Engineers
15:30-16:00	COFFEE BREAK	
	1D1 - Model Based Systems Engineering I	1D2 - Systems Security and Requirement Management
	1570818085 - Advanced Engineering Change Impact Approach (AECIA) - Towards a model-based approach for a continuous Engineering Change Management	1570819033 - Cybersecurity in Industrial Control Systems - An integration of information technology and operational technology
	1570821174 - Using MBSE With SysML to Analyze Change Impacts,	1570836666 - Is Self-Sovereign Identity System Really Sovereign?
16.00-18.10	Including Efforts, in Technical Systems	1570836667 - Comparing Attack Models for IT Systems: Lockheed Martin's Cyber Kill Chain, MITRE ATT&CK Framework and Diamond Model
	1570784682 - Explore MBSE Strategy at Requirement Engineering of Small Satellite	1570821907 - Systems-Engineering-based Requirements Reuse in
	1570821861 - Model-Based STPA: Towards Agile Safety-Guided Design with Formalization	Accordance with Stakeholder Needs in Automotive Product Development 1570822093 - Requirements Validation Framework for Major
	with Formulization	Infrastructure Projects

Tuesday, October 25



	Ballroom A	Ballroom B
8.20-10.30	2A1 - Medical Systems 1570805598 - Impact of patient-centered care on cancer beliefs and knowledge: a social cognitive theory application 1570820799 - Mobile health in comorbidity settings 1570821002 - A Bio-Mechanical System of Systems for Heart Failure Patients 1570826552 - Patients' perception of Integrating AI into healthcare: systems thinking approach	2A2 - Model Based Systems Engineering II 1570826691 - GONG: an open source Ontology Based System Engineering toolset 1570826702 - Accelerating Simulation-Enabled Engineering 1570826717 - Fostering Model Consistency in Interdisciplinary Engineering by Linking SysML and CAD-Models 1570826776 - Application and Adaptation of a Process Model for Data- Driven Validation of the System of Objectives
	1570826085 - Caregivers' experience with telehealth during Covid-19: a quantitative study in the United States	1570830061 - Towards Articulating Failures for Building Resilience in Robot Swarms: A Case Study in Model-Based Systems Engineering
10:30 - 11:00	COFFEE BREAK	
11:00 - 12:40	2B1 - Model Based Systems Engineering III 1570822144 - Collaboration between System Architect and Simulation Expert 1570822166 - Reduced Order Modeling of a Heat Exchanger with a Stacking Ensemble to reduce Computational Inefficiencies 1570822180 - System modeling process with SysML assuming the use of models 1570822203 - Functional Cost Modelling & Management	2B2 - Risk management 1570826356 - Obstacles of System-of-Systems 1570817294 - Measuring Health Systems Resilience: A Comparative Study Of Turkey's Health System During Covid-19 Pandemic 1570822046 - Safe Integration of Autonomous Machines in Underground Mining Environments 1570825714 - A Risk Analysis Study: Model Development for Risk Mitigation and Systematic Approach to FTI System Design Activities
12:40 - 13:50	LUNCH BREAK (included in registration)	
13.50-15.30	 2C1 - Data, models, simulations 1570817005 - Multi domain physics-based modeling for finding root cause of pressure oscillations on aircraft landing gear brake control system 1570822186 - Towards a Data Engineering Process in Data-Driven Systems Engineering 1570822207 - Systems Engineering and Simulation: Towards a Unified Methodology for Developing Cyber-Physical Systems 1570826827 - Differentiation of Engineering Models by Physical Effects 	2C2 - Systems architecture 1570822268 - Extended RFLP for complex technical systems 1570825722 - A viewpoint-based evaluation method for future Automotive Architectures 1570826727 - Development of System Alternatives using Generative Engineering 1570826812 - Definition and use of logical and physical architecture within vehicle concept development
15:30-16:00	COFFEE BREAK	



	Ballroom A	Ballroom B
16.00-18.10	 2D1 - Requirements and Validation 1570822055 - Requirements for the Development of Systems Engineering Innovations 1570822192 - Validation of Obstacle Detection for Rail Vehicles using a dynamic Ground Truth System 1570822223 - Stochastic Scenario Exploration with Constrained Parameters for Aircraft System Virtual Testing 1570822259 - Efficient Extraction of Technical Requirements Applying Data Augmentation 	 2D2 - Special Session THEFOSE 1570820906 - Structure Preserving Transformations for Practical Model- based Systems Engineering 1570821843 - Grid connected Hybrid Energy Multi level inverter for power distributed systems using ANFIS Controller 1570822274 - Consistency of multiple system engineering models of a fixed wing drone 1570826130 - Natural Language Processing of Specifications for a Prototypical Avionic System to Generate System Design: A Case Study 1570826824 - Towards Digitalization of Physical Effect Libraries



	Ballroom A	Ballroom B
8.20-10.30	3A1 - Model Based Systems Engineering IV	
	1570822220 - Examples of Al-based Assistance Systems in context of Model-Based Systems Engineering	
	1570825922 - A theoretical, methodological and technical contribution for modeling and V&V in MBSE context	Systems Chapter Community Discussion:
	1570826264 - Modeling Inclusive Systems in SysML	Community session with chapter members
	1570822006 - Implementation of Systems Engineering: A maturity-based approach	
	1570826650 - Guidelines for systematic functional decomposition in model-based systems engineering	
10:30 - 11:00	COFFEE BREAK	
	3B1 – Systems RAMS	
11:00 - 12:40	1570822176 - An Electromagnetic Gripper for Multiple Picking of Iron Laser-Cut Parts	
	1570826477 - A first proposal of a data-driven reliability life cycle for complex systems	Business Meeting with Chapter Chairs: Welcome and Introductions
	1570826679 - Low-cost accurate inductive system for thickness measurement of industrial ferromagnetic plates	welcome and introductions
	1570826708 - Design and Implementation of a Low Cost System for Accurate Impedance Spectroscopy	
12:40	SYMPOSIUM ENDS	