



# IEEE

# IEEM VIRTUAL

## 2020 International Conference on Industrial Engineering and Engineering Management Online Conferencing 14 – 17 December 2020

### IEEM2020 VIRTUAL 4-DAY MEETING - PRELIM PROGRAM (ACTUAL WILL VARY)

Note: Program Uses Singapore Standard Time and is 8 hours ahead of GMT (GMT+08:00)

#### POSTER SESSION

Mon-14 Dec to Thu-17 Dec Poster Display: A collection of poster PNGs or audio/video files on display for attendees to "visit".  
Live poster Q & A sessions for attendees to meet virtually with presenters and ask questions or give feedback.

Day 1 - Monday, 14 Dec 2020 Webinar

OPENING & KEYNOTE 7:00PM - 8:00PM, MON-14 DEC 2020

Day 2 - Tuesday, 15 Dec 2020 Presentations

AM1 PRESENTATIONS 08:00AM - 9:30AM, TUE-15 DEC 2020

Supply Chain Management 1		Decision Analysis and Methods 1		Technology and Knowledge Management 1		Operations Research 1	
Reg ID: 253 Adnan HASSAN		Reg ID: 81 Carman Ka Man LEE		Reg ID: 276 Arnesh TELUKDARIE		Reg ID: 278 Suk Na HYEONG	
Reg ID: 285 Yugowati PRAHARSI		Reg ID: 17 Vinay SINGH		Reg ID: 227 Tingyao XIONG		Reg ID: 262 Ai Chin THOO	
IEEM20-P-0021	Modeling of an Industrial Ecosystem at Traditional Shipyards in Indonesia for the Sustainability of the Material Supply Chain	IEEM20-P-1145	Stress-based Lattice Structure Design for Additive Manufacturing	IEEM20-P-0011	Adoption of Information Technology in Modern Manufacturing Operation	IEEM20-P-0532	A Robust Optimisation Formulation for Post-departure Rerouting Problem
IEEM20-P-0073	The Optimal Choice for Local Content Requirement and Tariff Under Social Welfare Maximization	IEEM20-P-0160	Launch Strategies for Upgraded Products with Consideration of Self-cannibalization	IEEM20-P-0204	Knowledge Revealing and Organizational Legitimacy: Comparisons between Different Types of Firms	IEEM20-P-1061	Behavioral Model to Understand Hurricane Evacuation Decision Making Affected by Social Influence
IEEM20-P-0079	Flood Shelters Location Using P-median Model	IEEM20-P-0168	Integrating Classification with K-means Clustering to Detect E-commerce Transaction Anomaly	IEEM20-P-0244	Promoting the Original Innovation for Disruptive Technology: Reflections on the Pandemic	IEEM20-P-0290	Job Shop Scheduling Problem Neural Network Solver with Dispatching Rules
IEEM20-P-0184	An Inventory Optimization Model Under Demand Uncertainty for Autonomous Multi-site Inventory Planning with Material Substitutability and Transshipment	IEEM20-P-0238	Two-stage Newsvendor Problem with Loss Aversion and Probability Weighting Effects	IEEM20-P-0477	How Do Innovation Intermediaries Influence Outbound Open Innovation in China? A Moderated Mediation Mechanism	IEEM20-P-0300	Portfolio Selection Utilizing Electronic Company Stocks During the Enhance Community Quarantine Period in the Philippines
IEEM20-P-0203	Supplier Selection and Order Allocation Under Disruption: Multi-objective Evolutionary Algorithms	IEEM20-P-0348	A Multiple Layer Dea Model for Evaluating Corporate Sustainable Performance Using Lean Manufacturing Practices	IEEM20-P-0298	A Study on Ambidextrousness of R&D Organization in Ict Companies	IEEM20-P-0438	Performance Analysis of an Open Cycle Gas Turbine Power Plant in Grid Electricity Generation
IEEM20-P-0232	Dual Sourcing Problem with Capacities and Setup Cost	IEEM20-P-0422	Application of Lean Six Sigma Methodology and Queuing Theory to Minimize Systemic Variability: A Case Study from Public Services	IEEM20-P-0374	Impact of Reabsorption of Spilled Knowledge on Patent Value	IEEM20-P-0406	Managing Sustainability in Electricity Generation

AM2 PRESENTATIONS 10AM - 11:30AM, TUE-15 DEC 2020

Systems Modeling and Simulation 1		Big Data and Analytics 1		Project Management 1		Poster Session 1 Mon-14 Dec to Thu-17 Dec Poster Display: A collection of poster PNGs or audio/video files on display for attendees to "visit".	
Reg ID: 92 Zhiqiang CAI		Reg ID: 81 Carman Ka Man LEE		Reg ID: 28 Fitra LESTARI		Reg ID: 262 Ai Chin THOO	
Reg ID: 6 Yoshinobu TAMURA		Reg ID: 276 Arnesh TELUKDARIE		Reg ID: 203 Chung-Chih LIAO		Reg ID: 71 Kuo-Wei WU	
IEEM20-P-0433	A Mixed-integer Programming Approach to Group Control of Elevator Systems with Destination Hall Call Registration	IEEM20-P-0039	The Prediction of Flight Delay: Big Data-driven Machine Learning Approach	IEEM20-P-0010	Breakthrough Capabilities for Delivering High-performing Project Management Offices (PMOs) in Construction Enterprises	IEEM20-P-1073	The Key Success Factor for Attracting Foreign Investment After the Popularity of Covid-19
IEEM20-P-1140	Additive Manufacturing of Dynamic Lifeboat Hook Assembly	IEEM20-P-1055	TV Series Adaptations: An AI Toolkit For Success	IEEM20-P-0117	How Could Antecedents to Project Collaborative Effectiveness Through Project War-Room Meetings, Develop Cohesion in Multicultural Teams: While Problem-Solving?	IEEM20-P-0364	Productivity Evaluation of Asia Textile Industry
IEEM20-P-0415	Effect of Network Structure and Preference Difference on Knowledge Transfer in Inter-organizational R&d Project	IEEM20-P-0366	Business Applications for Current Developments in Big Data Clustering: an Overview	IEEM20-P-0228	Evaluation of the "Internet +" Environmental Public Welfare Project Based on Value Co-creation	IEEM20-P-0224	Applying K-means Technique and Decision Tree Analysis to Predict Taiwan Etf Performance
IEEM20-P-0315	Container Movement Evaluation Using System Dynamics Simulation	IEEM20-P-0398	Visual-based People Counting and Profiling System for Use in Retail Data Analytics	IEEM20-P-0489	Gearing Food Manufacturing Industry Towards Lean Six Sigma Implementation: an Exploratory Study on Readiness Factors	IEEM20-P-0207	What Core Competence can Students Learn from Off-Campus Internship ?
IEEM20-P-0472	Electric Vehicle Diffusion in the Indonesian Automobile Market: a System Dynamics Modelling	IEEM20-P-0539	Detecting Bursts in Water Distribution System Via Penalized Functional Decomposition	IEEM20-P-0447	Project Performance Evaluation System: a Case Study in a Construction Enterprise in Colombia	IEEM20-P-0132	Personal Health Mention Identification from Tweets Using Convolutional Neural Network
IEEM20-P-0525	Optimization by Hybridization of Algorithms Rga and Its to Solve the Container Stacking Problem at Tripoli-jebanon Seaport.	IEEM20-P-0500	SARIMA and Artificial Neural Network Models for Forecasting Electricity Consumption of a Microgrid Based Educational Building	IEEM20-P-0568	Application of Fuzzy Set Theory to Evaluate Large Scale Transport Infrastructure Risk Assessment and Application of Best Practices for Risk Management	IEEM20-P-0216	Internet-based Collaborative Design, Manufacturing, and Supply Chain for Manufacturing Companies
						IEEM20-P-0158	Advance Selling Decision for Perishable Products in the Presence of Strategic Consumers
						IEEM20-P-1112	Perceived Sustainability Performance of Eco-Industrial Park through Environmental Consciousness and Strategic Resource Allocation of Internet Display Advertising Considering Multiple Metric Constraints
						IEEM20-P-0172	Resource Allocation of Internet Display Advertising Considering Multiple Metric Constraints
						IEEM20-P-0439	Optimized Layout of Emergency Monitoring for Sudden Marine Pollution Accidents

PM1 PRESENTATIONS 12PM - 1:30PM, TUE-15 DEC 2020

Supply Chain Management 2		Decision Analysis and Methods 2		Reliability and Maintenance Engineering 1		Manufacturing Systems 1	
Reg ID: 253 Adnan HASSAN		Reg ID 241 Yaqiong LV		Reg: 151 Danping LIN		Reg ID: 278 Suk Na HYEONG	
Reg ID: 285 Yugowati PRAHARSI		Reg ID: 17 Vinay SINGH		Reg ID: 6 Yoshinobu TAMURA		Reg ID: 232 Wen WANG	
IEEM20-P-0510	Optimal Planning of a Closed-loop Supply Chain with Recovery Options and Carbon Emission Considerations	IEEM20-P-0446	An Analysis of Decision to Retrofit Coal Based Power Plant with Carbon Capture Technology having Uncertain Parameters	IEEM20-P-0153	Reliability and Safety Assessment of Automated Driving Systems: Review and Preview	IEEM20-P-0197	Energy Management: Sustainable Approach Towards Industry 4.0
IEEM20-P-1010	Evaluation Framework in Sustainable Cold Chain for Perishable Food Products: a Literature Review	IEEM20-P-0501	Prediction of Raw Material Price Using Autoregressive Integrated Moving Average	IEEM20-P-0452	An Integrated Approach for Fuzzy Failure Mode and Effect Analysis using Fuzzy AHP and Fuzzy MARCOS	IEEM20-P-1133	Critical Success Factors for Internet of Things (IoT) Implementation in Manufacturing Companies in Indonesia: Literature Review and Future Research
IEEM20-P-0152	Choosing the Right Communication Medium for Knowledge Transfer in Global Production Networks	IEEM20-P-0533	Energy Efficiency Measures and Production Resources: Towards an Integrative Classification Framework for Decision Makers	IEEM20-P-0504	Mechanization of Qualitative Risk Based Inspection Analysis	IEEM20-P-0120	Digital Twin Application for Production Optimization
IEEM20-P-0068	Modeling the Recall Process of Bulk-Liquid Industry: A Linear Programming Approach	IEEM20-P-0557	A Game-theory Based Parking Pricing Policy	IEEM20-P-1152	Modelling and Analysis of Accelerated Degradation Testing with Practical Issues Considered	IEEM20-P-0123	Adaptive Task Sharing in Human-Robot Interaction in Assembly
IEEM20-P-0124	Framework for the Proactive Identification of Adaptation Needs in the Configuration of Global Production Networks	IEEM20-P-0465	Least-distance Data Envelopment Analysis Model for Bankruptcy-based Performance Assessment	IEEM20-P-0016	A Deterministic Analysis Method of Embedded System Based on Event-driven	IEEM20-P-0134	Enterprise-wide Value Stream Mapping: from Dysfunctional Organization to Cross-functional, Collaborative Learning and Improvement
IEEM20-P-0135	Impact of Internal Factors on the Implementation of Halal Logistics			IEEM20-P-0219	Life Prediction of Self-locking Nut for Aeroengine Based on Survival Analysis and Bayesian Network	IEEM20-P-0054	Design and Development of a Hydrothermal Reactor for Bio Coal Production for Application in Solid Waste Management Technologies

PM2 PRESENTATIONS 2:30PM - 4PM, TUE-15 DEC 2020

Production Planning and Control 1		Service Innovation and Management 1		Technology and Knowledge Management 2		Information Processing and Engineering 1	
Reg ID: 192 Nadjib BRAHIMI		Reg ID:148 Stanislav CHANKOV		Reg ID: 75 Leif OLSSON		Reg ID: 144 Gabriel FUENTES	
Reg ID:27 Aries SUSANTY		Reg ID: 16 Nagesh SHUKLA		Reg ID: 38 Yogi Tri PRASETYO		Reg ID:130 Ahmed MOSTAFA	
IEEM20-P-0022	Multi-factory Job Shop Scheduling With Due Date Objective	IEEM20-P-0140	Organizational Learning from Failure Can Augment Ambidexterity: Evidence from Japan	IEEM20-P-0053	Development and Evaluation of a Blockchain Concept for Production Planning and Control in the Semiconductor Industry	IEEM20-P-0161	Research on Layout Design of Situation Interface Based on Comprehensive Importance Evaluation of Nodes
IEEM20-P-0070	Risk Assessment and Treatment Planning for Energy-flexible Production Systems Using an Additional Cost Model	IEEM20-P-0248	The Business Ecosystem Management Canvas	IEEM20-P-0060	Cyber-Physical Operator Assistance Systems in Industry: Cross-Hierarchical Perspectives on Augmenting Human Abilities	IEEM20-P-0166	Exploring AI-driven Business Models: Conceptualization and Expectations in the Machinery Industry
IEEM20-P-0205	"Automated data acquisition and processing for factory layout planning"	IEEM20-P-0484	Lean Management 4.0: Proposition for the Evolution of Managerial Criteria	IEEM20-P-0246	Case Study for the Integrated Development of a Modular System for Vehicle Superstructures of Battery Electric Light Commercial Vehicles	IEEM20-P-0171	A Pilot Study of Industry 4.0 Asset Interoperability Challenges in an Industry 4.0 Laboratory
IEEM20-P-0491	Planning of Available Resources Considering Ergonomics Under Deterministic Highly Variable Demand	IEEM20-P-0508	Business Model and Organization Açıkça İlişkiler: İnterdependencies for Customer-centric Continuous Innovation in Subscription Business	IEEM20-P-0301	The Enhancement of E-learning for the Boring Process to Leverage the Knowledge Management Maturity	IEEM20-P-0279	Addressing Supply Chain Vulnerability by Supporting Emerging IT: An Analysis Based on SCOR Framework
IEEM20-P-0516	Why a systematic Investigation of Production Planning and Control Procedures is needed for the target-oriented Configuration of PPC	IEEM20-P-0526	Measuring Information Technology Service Levels: a Literature Review	IEEM20-P-0551	The Impact of Business Intelligence on Decision-making in Public Organisations	IEEM20-P-0402	A Customized Smart Medical Mask for Healthcare Personnel
IEEM20-P-0517	Reverse Logistics with Disassembly, Assembly, Repair and Substitution	IEEM20-P-0564	A User-centered Evaluation and Redesign Approach for E-Government APP			IEEM20-P-0419	A Spatial Framework for Extracting Suez Canal Transit Information from AIS

PM3 PRESENTATIONS 4:30PM - 6PM, TUE-15 DEC 2020

Systems Modeling and Simulation 2		Project Management 2		E-Business and E-Commerce 1		Operations Research 2	
Reg ID:148 Stanislav CHANKOV		Reg ID: 170 Hichem Haddou BENDERBAL		Reg ID: 231 Krishna KOTTAKKI		Reg ID: 69 Ripon CHAKRABORTY	
Reg ID: 16 Nagesh SHUKLA		Reg ID: 192 Nadjib BRAHIMI		Reg ID: 107 Linda ZHANG		Reg ID: 215 Gitae KIM	
IEEM20-P-0038	Cloud-based Cyber-Physical Robotic Mobile Fulfillment Systems Considering Order Correlation Pattern	IEEM20-P-0237	Empirical Classification of Advanced Information Technology Towards Their Support of Leadership Behaviors in Virtual Project Management Settings	IEEM20-P-0167	Digital Transformations in the Apparel Value Chain for Mass Personalization	IEEM20-P-0033	Performance Analysis of Greedy-based Construction Heuristics on Classical Vehicle Routing Problem
IEEM20-P-0051	A Simulation-based Method for Predicting the Time-varying Passenger Demand at Metro Rail Transit Line 3 Using Monte Carlo Simulation	IEEM20-P-0307	Towards an Extended Team Model for Agile Development of Complex Products	IEEM20-P-0384	A Constrained Clustering Algorithm for the Location of Express Shops	IEEM20-P-0042	Optimization of Capacitated Vehicle Routing Problem for Recyclable Solid Waste Collection Using Genetic and Seed Genetic Algorithms Hybridized With Greedy
IEEM20-P-0111	Simulation Modeling of Production System Considering Human Behavior	IEEM20-P-0337	A Taxonomy for Engineering Change Management in Complex ETO Firms	IEEM20-P-0468	Efficient Detection of Shilling's Attacks in Collaborative Filtering Recommendation Systems Using Deep Learning Models	IEEM20-P-0045	A Large Neighbourhood Search Approach to Airline Schedule Disruption Recovery Problem
IEEM20-P-0206	Identifying Suitable Transshipment Points for a Decentralized Waterborne Container Transportation Network	IEEM20-P-0418	An Approach for Systematic Planning of Project Management Methods and Project Processes in Product Development	IEEM20-P-0486	Relative Importance of Determinants Towards Users' Privacy Disclosure on Social Network Sites by Privacy Invasion Experience Based on Construal Level Theory	IEEM20-P-0162	Model for Hazardous Material Transportation Problem via Lane Reservation under Considering Environmental Risk
IEEM20-P-0209	Towards a European Hyperloop Network: An Alternative to Air and Rail Passenger Travel	IEEM20-P-0448	Sustainability in the Civil Construction Based on Emergy Analysis Theory: a Systematic Review of Literature	IEEM20-P-0330	An Integrated Scheme for Robot E-procurement	IEEM20-P-0189	A multi-objective emergency scheduling model for forest fires with priority areas
		IEEM20-P-0174	Investigating the Effects of Modular Product Structures to Support Design Decisions in Modularization Projects	IEEM20-P-0355	Customer Satisfaction with Order Fulfillment in E-Retail Supply Chains in China: An Empirical Study	IEEM20-P-0242	An Order-First Split-Second Approach to a Novel Variant of the Cardinality-Constrained Covering Traveling Salesperson Problem

PM4 PRESENTATIONS 7PM - 8:30PM, TUE-15 DEC 2020

Manufacturing Systems 2		Big Data and Analytics 2		Human Factors 1		Poster Session 2 Mon-14 Dec to Thu-17 Dec Poster Display: A collection of poster PNGs or audio/video files on display for attendees to "visit".	
Reg ID: 170 Hichem Haddou BENDERBAL		Reg ID: 12 Philipp BAUMANN		Reg ID:282 Michel ALDANONDO		Reg ID:130 Ahmed MOSTAFA	
Reg ID: 32 Junfeng WANG		Reg ID: 13 Oliver STRUB		Reg ID: 107 Linda ZHANG		Reg ID:14 Omid Fatahi VALILAI	
IEEM20-P-0155	Diagnosis on Energy and Sustainability of Reconfigurable Manufacturing System (RMS) Design: a BI-level Decomposition Approach	IEEM20-P-0115	A Dynamic Feedback System Analysis on the Mechanism of Shipping Freight	IEEM20-P-0028	The Effect of Gender, Hand Anthropometry, Hand Dominance, and High School Grade on Hand Grip Strength in Filipino Teenagers Aged 15-18: A Structural Equation Modeling Approach	IEEM20-P-0027	Using Online Big Data for Determining the Importance of Product Attributes
IEEM20-P-0170	Industrial Wastewater Treatment Configuration: Insights from a Northern Italy Textile Manufacturing District	IEEM20-P-0234	Optimal Feature Selection for Support Vector Machine Classifiers	IEEM20-P-0075	Influence of Presentation Mode on User's Mental Map in Temporal Sequence Data Visualization	IEEM20-P-0549	An Application on Building Information Model to Procurement Strategy of Copper Raw Material with Big Data Analytics
IEEM20-P-0213	A Data Model to Apply Process Mining in End-to-end Order Processing Processes of Manufacturing Companies	IEEM20-P-0256	News Media Sentiments and Stock Markets: the Indian Perspective	IEEM20-P-0179	The Importance of Including Qualitative Data in Technology Evaluation - Investigating the Technology Implementation Evaluation Score (ties)	IEEM20-P-0292	What Makes Consumers More Strategic? Evidence from an Experimental Study
IEEM20-P-0338	Small Series Production and Geometric Analysis of Sheet Metal Car Body Parts Using Forming Tools Made of Fused Filament Fabricated PLA	IEEM20-P-0281	Feature Engineering for Supply Analysis in Ocean Transportation	IEEM20-P-0220	Young Consumers' Perception Towards Downstream Green Supply Chain Practices	IEEM20-P-0537	Trade-terms Based Pricing Method for Export Commodity
IEEM20-P-0343	Exploring Reconfigurability in Manufacturing through IoT Connected MES/ MOM	IEEM20-P-0329	Using of Social Media Data Analytics for Applying Digital Twins in Product Development	IEEM20-P-0306	What Makes a Robot Robotic? Application of Speed, Fluidity and Animation Principles to Define Human Versus Robotic Movement	IEEM20-P-0553	Research on Key Factors of Total Social Welfare System of Car Hailing Industry- Based on Dematel Method
IEEM20-P-1158	The Managers Kit Turbo: Setting Up and Establish Teams in Case of an Emergency of a Manufacturing Cell.	IEEM20-P-0333	A Binary Linear Programming-Based K-Means Algorithm For Clustering with Must-Link and Cannot-Link Constraints	IEEM20-P-0434	Comparing Design Preference of Guide Road Signs by Native Arabic Speakers and International Speakers in the State of Qatar	IEEM20-P-0437	A Procedure for Product Variety Reduction That Considers Linked Revenue
						IEEM20-P-1134	Aerosol Jet Printed Temperature Sensor for Wireless Monitoring
						IEEM20-P-0360	Research on the Relationship between Self-identity and Organizational Citizenship Behaviors of the New Generation Knowledge Workers - The Mediating Effects of organizational Identification
						IEEM20-P-0459	Experimental Study on Visual Variables Influencing Icon Similarity

Day 3 - Wednesday, 16 Dec 2020 Presentations

AM3 PRESENTATIONS 8AM - 9:30AM, WED-16 DEC 2020

Supply Chain Management 3		Service Innovation and Management 2		Healthcare Systems and Management		Reliability and Maintenance Engineering 2	
Reg ID: 253 Adnan HASSAN		Reg ID: 28 Fitra LESTARI		Reg ID: 276 Armesh TELUKDARIE		Reg ID: 92 Zhiqiang CAI	
Reg ID: 285 Yugowati PRAHARSI		Reg: 151 Damping LIN		Reg ID: 227 Tingyao XIONG		Reg ID: 66 Zied HAJEJ	
IEEM20-P-0397	Optimal Decisions for Reverse Supply Chain Considering Iers of Dual Collection Channel	IEEM20-P-0062	Affecting Factors of Consumers' Purchase Decision on Sustainable Fashion Clothing Products	IEEM20-P-0037	Community Operational Research (OR) and Design Thinking for the Health and Social Services: A Comparative Analysis	IEEM20-P-0035	Jump Diffusion Process Model Considering Component Dependency in Open Source Project for Development Effort Management
IEEM20-P-0425	Risk Analysis of Upstream Halal Supply Chain in Meat Industry in Indonesia Using DEMATEL-Based ANP	IEEM20-P-0067	Performance Analysis for a Two-stage Queuing System with Online Service	IEEM20-P-0154	Healthcare Energy Management: a Digital Approach with Pattern	IEEM20-P-1039	Exact Method and Approximated Method for Redundancy Allocation Problem of Multi-state Series-parallel System
IEEM20-P-0426	Prioritizing Risks of Halal Meat Supply Chain in Indonesian Downstream Sector Using DEMATEL-Based ANP	IEEM20-P-0078	Impact of Halal Labeling on Brand Image on Cosmetic Product	IEEM20-P-0367	A Systems Approach to a Sector Wide Productivity Intervention in the Social Services: Case Report	IEEM20-P-0235	High-fidelity Finite Element Modelling and Simulation of Solid Resilient Tire: Application to Forklift Solid Resilient Tire
IEEM20-P-0429	Supply Chain Risk Assessment of Generic Medicine in Indonesia Using DEMATEL-Based ANP (DANP)	IEEM20-P-0061	A Study on IoT-enabled Appliance Management Service Platform Business Model	IEEM20-P-0378	Evolutionary Game Analysis of the Quality of Elderly-care Services Based on Public-Private Partnership Supply Pattern	IEEM20-P-0413	Integrated Preventive Maintenance Improvement and Spare Part Ordering Strategy for Age Deterioration Components
IEEM20-P-0462	Pricing and Production Decisions in a Product-Service System Supply Chain	IEEM20-P-0041	Strategic Planning and Prioritization Using AHP-based Failure Risk Assessment: Towards an Adaptation of Last Planner® System in the Public Sector	IEEM20-P-0521	The Impact of Social Media on the Quality of Doctor-Patient Interaction	IEEM20-P-0417	Health State Prognostics Study Based on Extreme Learning Machine
IEEM20-P-0493	DEMATEL-based Analytic Network Process (ANP) Approach to Assess the Vaccine Supply Chain Risk in Indonesia	IEEM20-P-0262	Is a Disruptive Technology Disruptive? The Readiness Perspective Based on TOE	IEEM20-P-1099	Binary Sequences with Large Srs Contrast Ratios	IEEM20-P-0163	Integrated Production, Maintenance and Control Chart of Supply Chain Management Under Quality Constraint

AM4 PRESENTATIONS 10AM - 11:30AM, WED-16 DEC 2020

Production Planning and Control 2		Information Processing and Engineering 2		Engineering Education and Training 1		Poster Session 3 Mon-14 Dec to Thu-17 Dec Poster Display: A collection of poster PNGs or audio/video files on display for attendees to "visit".	
Reg ID 241 Yaqiong LV		Reg ID: 17 Vinay SINGH		Reg ID: 66 Zied HAJEJ		Reg ID: 203 Chung-Chih LIAO	
Reg ID:71 Kuo-Wei WU		Reg ID: 227 Tingyao XIONG		Reg ID: 28 Fitra LESTARI		Reg ID:232 Wen WANG	
IEEM20-P-0180	Simulation Optimization Framework for Online Deployment and Adjustment of Reconfigurable Machines in Job Shops	IEEM20-P-0025	Relating Environmental and Structural Uncertainty to Management Decision Making Style and Behavior During Information System Planning and Implementation	IEEM20-P-0071	A Research on the Training Status of EECS Students' Core Competency in University of Science and Technology	IEEM20-P-1164	A Model of Adding Relations with Short Communication Lengths in Two Levels of a Complete K-ary Linking Pin Organization Structure
IEEM20-P-0202	Implementing Real-time Scheduling System on a Precision Engineering Company in Singapore	IEEM20-P-0211	A Feasible Schema Design Strategy for Amazon Dynamob: a Nested Normal Form Approach	IEEM20-P-0356	Gamification in Assembly Training: a Systematic Review	IEEM20-P-1029	Process Capability Index Under Simultaneous Effects of Process Deterioration and Learning Process
IEEM20-P-0227	Production Decisions for Standard and Customized Products with Postponement	IEEM20-P-0218	Intelligent Maintenance of Complex Equipment Based on Blockchain and Digital Twin Technologies	IEEM20-P-0412	Simulation Paper Planes a Way to Teach Lean Production	IEEM20-P-1028	Advanced Planning and Scheduling System Based on Multi-resource Closed-loop Management
IEEM20-P-0449	Allocation Optimization for Subscription Box Services	IEEM20-P-0463	Reinforcement Learning-based Differential Evolution for Solving Economic Dispatch Problems	IEEM20-P-0541	Independent Campus on Industrial Engineering Undergraduate Program in Indonesia a Delphi Method	IEEM20-P-0322	Influence of Six Sigma Dmaic to Reduce Time Wasting of Line Supervisor in Production Manufacturing
IEEM20-P-0130	Simulation-based Assembly Line Balancing in U-shaped, Parallel U-shaped, and Parallel Adjacent U-shaped Layouts	IEEM20-P-0058	A Statistical Comparison of Novel Coronavirus Cases between the Philippines and South Korea	IEEM20-P-0541	Independent Campus on Industrial Engineering Undergraduate Program in Indonesia a Delphi Method	IEEM20-P-1041	How Far We Moved and How Long the Road Ahead? On the On-road Testing of Prototype Automated Driving Systems
IEEM20-P-0558	Methodology for the Assessment of Complexity in Corporate Value Networks	IEEM20-P-0436	Evaluation of Chinese Sentiment Analysis Apis Based on Online Reviews	IEEM20-P-0541	Independent Campus on Industrial Engineering Undergraduate Program in Indonesia a Delphi Method	IEEM20-P-0416	Safety and Security Study for Shore Power System: State-of-the-Art
						IEEM20-P-0409	Optimization of multiple products transportation under the background of industrial symbiosis network
						IEEM20-P-0303	Digital Twin-based Framework for Green Building Maintenance System

PM5 PRESENTATIONS 12PM - 1:30PM, WED-16 DEC 2020

Supply Chain Management 4		Big Data and Analytics 3		Safety, Security and Risk Management		Quality Control and Management	
Reg ID: 215 Gitae KIM		Reg ID: 13 Oliver STRUB		Reg ID:282 Michel ALDANONDO		Reg ID: 66 Zied HAJEJ	
Reg ID:27 Aries SUSANTY		Reg ID:14 Omid Fatahi VALILAI		Reg ID: 260 Nizar CHATTI		Reg: 151 Damping LIN	
IEEM20-P-0136	Sustainability Assessment of Contract Farming Broiler Chicken Supply Chain Using Rap-poultry	IEEM20-P-0534	Monitoring and Control of Unstructured Manufacturing Big Data	IEEM20-P-0017	An Investigation of the Perceived Adverse Impacts and Control of Construction Noise in China	IEEM20-P-0114	Development and Validation of a Failure-Cause-Searching and Solution-Finding Algorithm Based on Complaint Information from the Use Phase
IEEM20-P-0138	Vehicle Arrangement Problem for an Automobile Carrier Terminal	IEEM20-P-0562	A User Segmentation Approach for Ugc Platform Based on a New Lead User Identification Index System and K-means Clustering	IEEM20-P-0149	Digital Twin for Legal Requirements in Production and Logistics Based on the Example of the Storage of Hazardous Substances	IEEM20-P-0148	A Failure Handling Process Model for Failure Management in Manual Assembly
IEEM20-P-0147	Bi-objective Multistage Decentralized Supply Chain Planning	IEEM20-P-0492	Topological Data Analysis for Identifying Critical Transitions in Cryptocurrency Time Series	IEEM20-P-0198	Frequency Probabilistic Risk Assessment using Coloured Petri Nets for Telemedicine	IEEM20-P-0251	The Implementation of Iso 90012015 to Improve Quality System a Descriptive Study on a South African Service Organisation
IEEM20-P-0212	The Impact of Smart-warehousing on a Local Foodservice Equipment- Company's External Customers.	IEEM20-P-0536	GPS-derived Measures of Freight Trucks for Rest Areas: a Case-study Based Analysis	IEEM20-P-1093	Towards a Risk Engineering Knowledge Model for Technical System Offers in Engineer to Order Situations	IEEM20-P-0288	The Relationship Between Quality Management Practices and Service Quality in South African Bank
IEEM20-P-0214	Impacts of Emerging Information Technologies on Supply Chains: A Systematic Literature Review	IEEM20-P-0569	User Aggregation Models for a Video-on-demand (VoD) System	IEEM20-P-0186	Risk Assessment for Food Safety in Chicken Slaughterhouse Industry	IEEM20-P-0348	An Integrated Modeling Framework for Multivariate Poisson Process with Temporal and Spatial Correlations
IEEM20-P-1059	Coordination, Capacity Planning and Joint Decision-making in Agricultural Supply Chains Under Supply and Demand Uncertainty	IEEM20-P-0369	Data Quality Issues When Quantifying Costs of Complexity			IEEM20-P-0431	Total Quality Management & Customer Satisfaction in Public Hospitals in Sri Lanka

PM6 PRESENTATIONS 2:30PM - 4PM, WED-16 DEC 2020

Systems Modeling and Simulation 3		Intelligent Systems		Manufacturing Systems 3		Engineering Economy and Cost Analysis	
Reg ID: 192 Nadjib BRAHIMI		Reg ID: 256 Ramakrushna PADHY		Reg ID: 170 Hichem Haddou BENDERBAL		Reg ID:130 Ahmed MOSTAFA	
Reg ID: 144 Gabriel FUENTES		Reg ID: 38 Yogi Tri PRASETYO		Reg ID: 32 Junfeng WANG		Reg ID: 75 Leif OLSSON	
IEEM20-P-0258	A 0-1 Mixed-Integer Program Approach towards Solving the Stochastic Aircraft Sequencing Problem with Constant Deceleration Rate	IEEM20-P-0336	Enablers and Barriers to the Implementation of Digital Twins in the Process Industry: a Systematic Literature Review	IEEM20-P-0350	Digital Twin-based Production Simulation of Discrete Manufacturing Shop-floor for Onsite Performance Analysis	IEEM20-P-0006	Operating Expense Budgeting Using Standard Activity Measurement Plan
IEEM20-P-0451	Determining the Freight Volumes for a Decentralized Waterborne Container Transportation Service	IEEM20-P-0403	Neural Network Control of Optical Tweezers System for Manipulation of Microscopic Objects	IEEM20-P-0357	Development of a Lean Manufacturing and Slip-based System for a Footwear Company	IEEM20-P-0146	Time-related Differentiation of Complexity Costs using Process Data Mining
IEEM20-P-0479	Data-driven Learning for Approximation of Nonlinear Functions with Stochastic Disturbances	IEEM20-P-0485	Optimization of Multilayer Design for FTTH Networks Based on Geographical Information	IEEM20-P-0358	Improving the Cutting Process Through Lean Manufacturing in a Peruvian Textile Sme	IEEM20-P-0363	The effect of geographical factor on the use of Combinable containers
IEEM20-P-1151	Agent-based Simulation of Heuristics-driven Evacuation Behavior Under Radiological Emergency: a Case Study of the Ko-ri Area	IEEM20-P-0559	Development of a Novel Control Approach for Collaborative Robotics in I4 Intelligent Flexible Assembling Cells	IEEM20-P-0372	Manufacturing Cloud Service Composition Based on the Non-cooperative and Cooperative Game Theory	IEEM20-P-1083	Ev Diffusion Model Considering Differences in Network Externality Structure
IEEM20-P-0543	A Cross-disciplinary Model-based Systems Engineering Workflow of Automated Production Systems Leveraging Socio-technical Aspects	IEEM20-P-0560	Implementation of a Bi-Directional Digital Twin for Industry 4 Labs in Academia: A solution based on OPC UA	IEEM20-P-0376	Reengineering Workflow for Planned Reuse of IEC 61131-3 Legacy Software		
IEEM20-P-0554	Modelling the Impact of Covid19 Pandemic on a Hardware Retail Supply Chain	IEEM20-P-1013	The AI Divide in Agricultural Supply Chains: An Initial Assessment	IEEM20-P-0495	Goal-Lever-Indicator-Principle to Derive Recommendations for Improving IEC 61131-3 Control Software		

PM7 PRESENTATIONS 4:30PM - 6PM, WED-16 DEC 2020

E-Business and E-Commerce 2		Decision Analysis and Methods 3		Operations Research 3		Engineering Education and Training 2	
Reg ID: 231 Krishna KOTTAKKI		Reg ID: 260 Nizar CHATTI		Reg ID: 12 Philipp BAUMANN		Reg ID: 75 Leif OLSSON	
Reg ID: 107 Linda ZHANG		Reg ID: 256 Ramakrushna PADHY		Reg ID: 69 Ripon CHAKRABORTTY		Reg ID: 38 Yogi Tri PRASETYO	
IEEM20-P-0080	The Influence to Customer Engagement Behavior by Different Strategy for Different Objective in Online Marketing	IEEM20-P-0450	On-Chip Democracy: A Study on the Use of Voting Systems for Computer Cache Memory Management	IEEM20-P-0254	A Multi-Round Auction for Staff to Job Assignment Under Myopic Best Response Dynamics	IEEM20-P-0122	The Impact of SARS-CoV-2 on Engineering Education: Student Perceptions from Three Countries
IEEM20-P-0267	Customer Stickiness to "Internet +" Environmental Protection Public Welfare Platforms	IEEM20-P-0464	Blockchain Adoption Time of Shipowners: a Game Theoretic Analysis	IEEM20-P-0289	Simulated Annealing Algorithm Performance on Two-echelon Vehicle Routing Problem-mapping Operation with Drones	IEEM20-P-0331	Blackboard E-learning System Acceptance and Satisfaction Among Filipino High School Students: an Extended Technology Acceptance Model (tam) Approach
IEEM20-P-0298	An Optimization Framework for On-demand Meal Delivery System	IEEM20-P-1167	Drivers for Lithium-ion Battery Recycling Industry: a Delphi Study	IEEM20-P-0414	A Relax-and-solve Algorithm for the Ordered Flow-shop Scheduling Problem	IEEM20-P-0420	Checklist as an Effective means of Information Delivery in On-Demand Learning
IEEM20-P-0299	Customer Experience Driven Assignment Logic for Online Food Delivery	IEEM20-P-0561	The Implementation of the Lean Thinking Concept for Reducing Waste: a Study Case in the Leather Tanning Process	IEEM20-P-0441	A Stochastic Programming Approach for Configuration Optimization of Reconfigurable Manufacturing Systems		
IEEM20-P-0320	Equal Pricing or Free Pricing? the Pricing Strategies of B2c Platform	IEEM20-P-0455	Data Model for Managing Product Complexity	IEEM20-P-1129	Estimation of Weights for Multi-objective Production Scheduling Problems -an Inverse Optimization Approach-		
IEEM20-P-0321	Consistent Pricing or Inconsistent Pricing: a Tool to Deal with Dominant E-tailers	IEEM20-P-0217	Evolutionary Analysis of Vaccination Strategies for Infectious Diseases Considering Neutral Strategy	IEEM20-P-0457	Robust Optimization Based Heuristic Approach for Solving Stochastic Multi-Mode Resource Constrained Project Scheduling Problem		

PM8 PRESENTATIONS 7PM - 8:30PM, WED-16 DEC 2020

Supply Chain Management 5		Decision Analysis and Methods 4		Operations Research 4		Poster Session 4 Mon-14 Dec to Thu-17 Dec Poster Display: A collection of poster PNGs or audio/video files on display for attendees to "visit".	
Reg ID: 215 Gitae KIM		Reg ID: 260 Nizar CHATTI		Reg ID: 69 Ripon CHAKRABORTTY		Reg ID: 12 Philipp BAUMANN	
Reg ID: 27 Aries SUSANTY		Reg ID: 256 Ramakrushna PADHY		Reg ID: 13 Oliver STRUB		Reg ID: 14 Omid Fatahi VALILAI	
IEEM20-P-0287	Qualitative Aspects of Communication and Relations in a Supply Chain for Forest Fuel	IEEM20-P-0145	Dynamic Bayesian Network Decision Model for Improving Fault Detection Procedure	IEEM20-P-0460	A Mathematic for Practical Flights Arrival and Departure Scheduling	IEEM20-P-1148	3D Printed Strain Gauge Sensor For Transport Rail Structural Monitoring - A Proof-of-Concept Study
						IEEM20-P-0018	Evaluation of Integrated Configuration: Cost and Time Models
IEEM20-P-0334	Determination of an Efficient Degree of Centralization in Global Production Networks	IEEM20-P-0139	Digitizing Company Analytics- Digitalization Concept for Valuable Insights	IEEM20-P-0497	Flying Sidekick Traveling Salesman Problem with Pick-up and Delivery and Drone Energy Optimization	IEEM20-P-0187	Concept Design of a System Architecture for a Manufacturing Cyber-physical Digital Twin System
						IEEM20-P-0181	The Process-ranking Benchmarking (prb) Model: Simplifying the It-procurement Decisional Process
IEEM20-P-0550	Blockchain in Supply Chains and Logistics: Trends in Development	IEEM20-P-0347	Creating Transparency in the Finished Vehicles Transportation Process through the Implementation of a Real-Time Decision Support System	IEEM20-P-0502	Multi-objective Optimization for Mixed-model Assembly Line Sequencing and Balancing in the Context of Industry 4.0	IEEM20-P-0456	Profit-driven Maintenance in Process Industries
						IEEM20-P-0304	Joint Strategy of Advance Selling and Resalable Returns for Fashion Products
IEEM20-P-0466	Impact of Sharing Point of Sales Data and Inventory Information on Bullwhip Effect	IEEM20-P-0359	Use of Analytical Hierarchy Process in Selecting the Optimum Equipment for Execution at a Construction Project	IEEM20-P-0540	An Immune Genetic Algorithm for Resource Constrained Project Scheduling Problem with Discounted Cash Flows	IEEM20-P-0432	Research on Tourism Supply Chain Coordination Under the Background of Low-carbon Tourism
						IEEM20-P-0392	A Simulation Study of Strategic Consumer Purchases
IEEM20-P-1136	Coordination Between Buyer and Supplier Using Game Theory	IEEM20-P-0405	The Influence of Macroeconomic Variables on Philippine Stock Market Indices a Structural Equation Model Approach	IEEM20-P-0546	A Hybrid Community-based Simulated Annealing Approach for Influence Maximization in Social Networks	IEEM20-P-0567	Simulation Modeling for Inventory Planning and Control in Maintenance Systems using Lot-for-Lot Reordering Strategy
						IEEM20-P-0137	Developing Knowledge Management System for Supporting Learning Activity in the Ceramics Craft Education
IEEM20-P-0481	Controlling of Migration in Production Networks	IEEM20-P-0443	A Methodology for Value-oriented Strategic Release Planning to Provide Continuous Product Upgrading	IEEM20-P-0430	Application of Fault Tree Analysis and Petri Net Modeling in Perishable Product Supply Chain	IEEM20-P-0373	Digital Maturity in Theory and Practice: A Case Study of a Swedish Smart-Built Environment Firm

Day 4 - Thursday, 17 Dec 2020 Webinar

CLOSING & BEST PAPER AWARD 7:00PM - 8:00PM, THU-17 DEC 2020