



CONFERENCE PROGRAM

The 10th International Conference on Operations and Supply Chain Management (OSCM)

“Technology, People, and Innovation in Supply Chains”

ONLINE, 14 – 15 December 2020

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The 10th International Conference on Operations and Supply Chain Management (OSCM)

“Technology, People, and Innovation in Supply Chains”

ONLINE, 14 – 15 December 2019

Day 1, 14 December 2020

We use Jakarta time (GMT+7).

15.00 – 15.30 Opening

Opening speech from Conference Chairs, **Professor Dr. Nyoman Pujawan, CSCP**

Welcome Speech from **Dr. Bambang Pramujati**, Vice Rector for Research, Innovation, Cooperation and Alumni, ITS

15.30 – 16.15 Keynote Speech: **Professor Chee Yew Wong (PhD, MSc, B.Eng.), Leeds University, UK** (Editor-in-Chief of **International Journal of Physical Distribution and Logistics Management**)

“**Researching Technology, People, and Innovation in Supply Chains: Towards meaningful and impactful scholarly research articles**”

Chair: **Professor Dr. Caroline Chan, Monash University, Australia**

16.15 – 16.30 Break

16.30 – 17.45 Parallel sessions I

17.30 – 18.30 Break

18.30 – 20.00 Parallel Sessions II

Day 2, 15 December 2020

15.30 – 17.30 Parallel sessions III

17.30 Closing

- Announcements

Please go to <https://www.oscm-forum.org/oscm-2020-announcement> to see updates on presentation schedule, to download abstract book, to find zoom links for each session, etc. An alternative short link is to access the sessions is <https://linktr.ee/oscm2020>

Parallel Sessions I: 14 December 2020, 16.30 – 17.45

Room I: Sustainable Supply Chain Chair: Dr. Maurice Brady, TU Dublin, Ireland	Room II: Supply Chain Collaboration Chair: Dr. Emy Ezura A-Jalil, Universiti Utara Malaysia	Room III: Sourcing Chair: Dr. Himanshu Shee, Victoria University, Australia
<p>Sustainable packaging practices in the horticulture sector: Some innovative companies' initiatives under the spotlight (20)</p> <ul style="list-style-type: none"> • Ram Roy, <i>Eastern Institute of Technology, New Zealand</i> <p>Reverse Logistics Capability for Sustainable Development in a Pharmaceutical Industry: A Conceptual Framework from a Logistics Management' Perspective (29)</p> <ul style="list-style-type: none"> • Michael Wang, <i>Auckland University of Technology, New Zealand</i> • Peter Shi, <i>Macquarie University, Australia</i> • Bill Wang, <i>Auckland University of Technology, New Zealand</i> • Geoffrey Chow, <i>New Silk Road Global Institute, Australia</i> <p>Mutuality of Social Sustainability and Supply Chain Resilience in a Micro Enterprise Context (60)</p> <ul style="list-style-type: none"> • Maurice Brady, <i>TU Dublin, Ireland</i> 	<p>EXPLORING GUANXI ATTRIBUTES IN SUPPLIER SELECTION DECISIONS (57)</p> <ul style="list-style-type: none"> • Emy Ezura A-Jalil, <i>Universiti Utara Malaysia</i> • Nur Izni Hajar Azmi, <i>Universiti Utara Malaysia</i> • Wan Nurfarahin Wan Mohamad, <i>Universiti Utara Malaysia</i> <p>The Comparisons of Supply Chain Collaboration Between Oil and Gas Industries and Other Industries (2)</p> <ul style="list-style-type: none"> • Moses Chijioke Olisah, <i>University of Strathclyde, UK</i> • William Ion, <i>University of Strathclyde, UK</i> <p>THE IMPACT OF ORGANIZATIONAL AND CONTEXTUAL FACTORS ON SUPPLY CHAIN COLLABORATION AND COMPETITIVE ADVANTAGE IN THE GARMENT INDUSTRY: A CONCEPTUAL FRAMEWORK (64)</p> <ul style="list-style-type: none"> • Dung Tran, <i>RMIT University, Australia</i> • Vinh Thai, <i>RMIT University, Australia</i> • Duc Truong, <i>RMIT University, Australia</i> 	<p>A Review of Supply Chain Risk – Outsourcing Pollution Perspective (28)</p> <ul style="list-style-type: none"> • Jeffrey J. Wang, <i>Victoria University, Australia</i> • Himanshu Shee, <i>Victoria University, Australia</i> • Catherine Lou, <i>Victoria University, Australia</i> <p>Supplier Selection Process of Outsourced Logistics Services - A Lean Six Sigma Approach (18)</p> <ul style="list-style-type: none"> • Huay Ling Tay, <i>Singapore University of Social Sciences</i> <p>MAXIMIZING VALUE CREATION IN THE NEW ECONOMY THROUGH COLLABORATIVE RELATIONSHIPS AND SOURCING MODELS (40)</p> <ul style="list-style-type: none"> • Deni Sepdiana, <i>Institut Teknologi Sepuluh Nopember, Indonesia</i> • Nyoman Pujawan, <i>Institut Teknologi Sepuluh Nopember, Indonesia</i>

Parellel Sessions II: 14 December 2020, 18.30 – 20.00

Room I: Lean and Quality Chair: Dr. Daryl Powell, SINTEF Manufacturing AS, Norway	Room II: Transport Chair: Dr. Niniet Indah Arvitrida, ITS - Indonesia	Room III: Supply Chain Technology Chair: Prof. Per Engelseth, University of Tromsø, Norway
<p>INTEGRATION OF VOICE OF CUSTOMER QUESTIONNAIRE SURVEY FOR DEVELOPING THE CUSTOMER'S NEEDS QUALITY FUNCTION DEPLOYMENT (CN-QFD) ON A SUSTAINABLE NEW PRODUCT DEVELOPMENT (26)</p> <ul style="list-style-type: none"> • Thanyatorn Fongsatitkul, Tokyo Metropolitan University, Japan • Yasutaka Kainuma, Tokyo Metropolitan University, Japan <p>EMPLOYEES IN THE MIDST OF DIGITAL LEAN TRANSFORMATION: THE LITERATURE FRAMEWORK (4)</p> <ul style="list-style-type: none"> • Jamila Alieva, University of Gavle, Sweden • Daryl Powell, SINTEF Manufacturing AS, Norway <p>A framework for measuring supply chain quality for a healthcare organization (25)</p> <ul style="list-style-type: none"> • Pratik Rai, Indian Institute of Management Ranchi, India • Sasadhar Bera, Indian Institute of Management Ranchi, India <p>EVALUATION EFFICIENCY OF INDONESIAN SEAPORTS: DATA ENVELOPMENT ANALYSIS (73)</p> <ul style="list-style-type: none"> • Munawaroh, Mahidol University Thailand 	<p>UNDERSTANDING MATCHING SUPPLY AND DEMAND IN ONLINE SPOT MARKET FOR TRANSPORTATION SERVICES: REVISITING THE EXISTING LITERATURE (54)</p> <ul style="list-style-type: none"> • Lala Ayu Kantari, ITS - Indonesia • Nyoman Pujawan, ITS - Indonesia • Niniet Indah Arvitrida, ITS - Indonesia <p>DESIGNING PARATRANSIT INFORMATION DISPLAYS FOR BATU CITY, INDONESIA: DESIGN NEEDS AND USER SUGGESTIONS (49)</p> <ul style="list-style-type: none"> • Rika Amarta Wulandari, Mahidol University Thailand • Waressara Weerawat, Mahidol University Thailand <p>FACTORS INFLUENCING USERS' ON-DEMAND TRANSPORTATION SERVICE ASSESSMENT - The case of Ho Chi Minh City (63)</p> <ul style="list-style-type: none"> • NGUYEN Thi Thanh Huong, University of Transport and Communications, Vietnam • NGUYEN Van Dung, University of Transport and Communications, Vietnam 	<p>AUTOMATIC-DISINFECTION SERVICE BY AGV-COBOT SYSTEM FOR COVID-19 PANDEMIC (33)</p> <ul style="list-style-type: none"> • Nirachorn Iamsawan, Mahidol University, Thailand • Eakkachai Warinsiriruk, Mahidol University, Thailand • Jukkapun Greebmalai, Mahidol University, Thailand • Abigyat Babu Prasai, Mahidol University, Thailand • Yin-Tien Wang, Tamkang University, Taiwan <p>ADDITIVE MANUFACTURING: CURRENTLY A DISRUPTIVE SUPPLY CHAIN INNOVATION? (8)</p> <ul style="list-style-type: none"> • Per Engelseth, University of Tromsø, Norway • Fahad Awaleh, Kristiania University College, Norway <p>REAL-TIME INFORMATION AS COORDINATION MECHANISM FOR OPERATIONAL DISRUPTIONS IN INTERMODAL HINTERLAND TRANSPORT (47)</p> <ul style="list-style-type: none"> • Per Wide, Chalmers University of Technology, Sweden • Violeta Roso, Chalmers University of Technology, Sweden

<ul style="list-style-type: none"> • Waessara Weerawat, <i>Mahidol University Thailand</i> 	<p>SOCIO-ECONOMIC AND ECOLOGICAL EFFECTS IN PROBABILISTIC APPRAISAL OF RAILWAY PROJECT (72)</p> <ul style="list-style-type: none"> • Ekaterina Kazaku, <i>Emperor Alexander I Petersburg State Transport University, St. Petersburg, Russia</i> • Elena Zvereva, <i>Emperor Alexander I Petersburg State Transport University, St. Petersburg, Russia</i> • Yulia Panova, <i>Emperor Alexander I Petersburg State Transport University, St. Petersburg, Russia</i> 	<ul style="list-style-type: none"> • Dan Andersson, <i>Chalmers University of Technology, Sweden</i> <p>Post Coronavirus Sustainable Food Supply Chain Recovery Trends: Constructing a Demand Strategy focused on Future Global Business Growth in Tomorrow's Smart City</p> <ul style="list-style-type: none"> • John Wilkerson, <i>Bellwether Research Institute, USA</i>
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Parallel Sessions III, 15 December 2020, 15.30 – 17.30

Room I: Sustainability Chair: Dr. Barbara Ocicka, Warsaw School of Economics, Poland	Room II: Transport and Logistics Chair: Dr. Funlade Sunmola, University of Hertfordshire, UK	Room III: SC Modelling Chair: Dr. Imam Baihaqi, ITS - Indonesia
<p>An integrated framework of Supply Chain Management to achieve Circular Economy</p> <ul style="list-style-type: none"> • Ramakrishna Yanamandra, <i>Skyline University College, United Arab Emirates</i> <p>Supply Chain In Covid-19: Impacts and Strategies (42)</p> <ul style="list-style-type: none"> • Loo Saw Khuan, <i>Sunway College, Malaysia</i> • Suan See Tan, <i>Sunway College, Malaysia</i> <p>THE EARLY IMPACT OF COVID-19 ON TOURISM INDUSTRY: ASSESSMENT OF EGYPTIAN TOURISM SUPPLY CHAIN (48)</p> <ul style="list-style-type: none"> • Alaa Abdelsalam, <i>Arab Academy for Science, Technology and Maritime Transport, Egypt</i> • Chehab Elbelehy, <i>Arab Academy for Science, Technology and Maritime Transport, Egypt</i> • José Crispim, <i>University of Minho, Portugal</i> 	<p>MANAGING BUSINESS PROCESSES IN AN ERP SYSTEM CONTEXT FOR AIRLINE CATERING LOGISTICS (67)</p> <ul style="list-style-type: none"> • Dhaarsan Rajaratnam, <i>University of Hertfordshire, UK</i> • Funlade Sunmola, <i>University of Hertfordshire, UK</i> <p>Determining Efficiency of Metro Operations (44)</p> <ul style="list-style-type: none"> • Vasita Suriyamart, <i>Mahidol University Thailand</i> • Jirapan Liangrokapart, <i>Mahidol University Thailand</i> <p>Special Knowledge and Skills needed for Aviation Maintenance, Repair and Overhaul (MRO) Industry (32)</p> <ul style="list-style-type: none"> • KANYAROSE CHAITIPARSANA, <i>Mahidol University Thailand</i> • Jirapan Liangrokapart, <i>Mahidol University Thailand</i> 	<p>Multi Objective Robust Optimization Model for Facility Layout Design under Demand Uncertainty (37)</p> <ul style="list-style-type: none"> • Dina Natalia Prayogo, <i>University of Surabaya, Indonesia</i> <p>A Study on Transfer Pricing Considering Fairness and Profitability (36)</p> <ul style="list-style-type: none"> • Qian Huang, <i>Waseda University, Japan</i> • Shunichi Ohmori, <i>Waseda University, Japan</i> <p>The dual channel closed loop supply chain: A state of the art review (34)</p> <ul style="list-style-type: none"> • Linda Tombido, <i>South Africa</i> • Imam Baihaqi, <i>ITS, Indonesia</i> <p>White-Label Pickup Stations: A Conjoint Analysis (19)</p> <ul style="list-style-type: none"> • Reinhold Schodl, <i>FH BFI Vienna, Austria</i> • Sandra Eitler, <i>FH BFI Vienna, Austria</i>

<p>Implementation of a circular economy in the compostable food packaging market (59)</p> <ul style="list-style-type: none"> • Grażyna Wieteska, <i>University of Lodz, Poland</i> • Barbara Ocicka, <i>Warsaw School of Economics, Poland</i> 	<p>Project logistics as value creator in networked logistics systems (12)</p> <ul style="list-style-type: none"> • Fahad Awaleh, <i>Kristiania University College, Norway</i> • Per Engelseth, <i>University of Tromsø, Norway</i> <p>FLEXIBLE PICK-UP AND DELIVERY VEHICLE ROUTING PROBLEM WITH SOFT TIME WINDOW AND CUSTOMER SELECTION IN URBAN AREAS (74)</p> <ul style="list-style-type: none"> • Amanda Dwi Wantira, <i>Institut Teknologi Bandung, Indonesia</i> • Andi Cakravastia, <i>Institut Teknologi Bandung, Indonesia</i> 	<ul style="list-style-type: none"> • Bernhard Ennsner, <i>FH BFI Vienna, Austria</i> • Johannes Braith, <i>Storebox Holding GmbH</i> • Georg Hauger, <i>Vienna University of Technology, Austria</i> • Matthias Steinbauer, <i>Variocube GmbH</i> • Matthias Prandtstetter, <i>AIT Austrian Institute of Technology</i> <p>MULTI CRITERIA APPROACH ON SUPPLIER SELECTION AND ORDER ALLOCATION IN SUGARCANE SUPPLY (30)</p> <ul style="list-style-type: none"> • Edwin Risananto, <i>ITS - Indonesia</i>
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Parallel Sessions IV, 15 December 2020 (**Asynchronous – see notes below**)

General Supply Chain	Transportation and Distribution	General Supply Chain
<p>IMPLEMENTING MRP-JIT HYBRID SYSTEM UNDER DEMAND UNCERTAINTY: A PRELIMINARY STUDY (24)</p> <ul style="list-style-type: none"> • Pandhu Utomo Paksi Hartoyo, ITS – Indonesia • Niniet Indah Arvitrida, ITS – Indonesia <p>PREDICTIVE MAINTENANCE OF COOLING SYSTEM WITH SENSORS COMBINATION AND SCADA (22)</p> <ul style="list-style-type: none"> • Engelbert Harsandi Erik Suryadarma, Atma Jaya University, Yogyakarta, Indonesia • The Jin Ai, Atma Jaya University, Yogyakarta, Indonesia <p>WHAT USERS MOSTLY DISCUSS BEFORE AND AFTER LAUNCHING OF IPHONE 11 SERIES: A BIG DATA ANALYTICS APPROACH (55)</p> <ul style="list-style-type: none"> • Herry Irawan, Telkom University, Indonesia • Muhammad Ishla Fakhri, Telkom University, Indonesia <p>The New Design of Automated Baggage Loading at The Airport (41)</p>	<p>MIXED TRAFFIC TIMETABLE SIMULATION ANALYSIS: A CASE STUDY OF RED LINE COMMUTER TRAIN (58)</p> <ul style="list-style-type: none"> • Nattita Limboongam, Mahidol University, Thailand • Waessara Weerawat, <i>Mahidol University Thailand</i> <p>MODELING RUNWAY CAPACITY USING MIXED INTEGER PROGRAMMING BASED ON FCFS AND AROT POLICIES (43)</p> <ul style="list-style-type: none"> • Oki Anita Candra Dewi, Universitas Internasional Semen Indonesia • Puji Andayani, Universitas Internasional Semen Indonesia • Faisal Riza, Air Traffic Controller, Air Navigation Juanda, Indonesia <p>Model of forecasting goods traffic in transportation network connecting to Long Binh logistics hub in Ho Chi Minh City (62)</p> <ul style="list-style-type: none"> • NGUYEN Thi Thanh Huong, <i>University of Transport and Communications, Vietnam</i> • NGUYEN, Van Dung, <i>University of Transport and Communications, Vietnam</i> 	<p>Taxonomy of Risks in Transforming Conventional into Sustainable Supply Chain (65)</p> <ul style="list-style-type: none"> • Agung Sutrisno, Sam Ratulangi University, Indonesia • Vikas Kumar, University of the West of England, UK <p>PREPARATION OF THE NATURAL GAS SUPPLY CHAIN SYSTEM FOR THE NEW CAPITAL CITY OF INDONESIA – A LITERATURE REVIEW (39)</p> <ul style="list-style-type: none"> • Bagas Bimantoro, ITS – Indonesia • R.O. Saut Gurning, ITS – Indonesia <p>EVALUATION OF PROCUREMENT FUNCTION MATURITY LEVEL: CASE STUDY OF GOODS AND SERVICES PROCUREMENT FOR SHIP (70)</p> <ul style="list-style-type: none"> • Alloysius Prima Fajar Nugroho, ITS – Indonesia • Nyoman Pujawan, ITS – Indonesia <p>THE APPLICATION OF STRATEGIC SOURCING TO IMPROVE COMPETITIVENESS IN THE ACQUISITION OF NEW CONTRACT IN EPC BUSINESS (23)</p> <ul style="list-style-type: none"> • Dina Siti Aisyah, ITS – Indonesia • Nyoman Pujawan, ITS – Indonesia

<ul style="list-style-type: none"> • Muhammad Fakhuriza Pradana, University of Sultan Ageng Tirtayasa, Indonesia • Bryan Tan, University of Duisburg Essen, Germany • Bernd Noche, University of Duisburg Essen, Germany 	<p>Measuring supply chain performance of a construction company (53)</p> <ul style="list-style-type: none"> • Yang Gisella Yulialistika Esfandiatri, ITS, Indonesia • Nyoman Pujawan. ITS, Indonesia 	<p>Sustainable Supply Chain in Pulp and Paper Industry: A Review</p> <ul style="list-style-type: none"> • Nurhayati Sembiring, <i>Universitas Sumatera Utara, Indonesia</i> • Humala Lodewijk Napitupulu, <i>Universitas Sumatera Utara, Indonesia</i> • Meilita Tryana Sembiring, <i>Universitas Sumatera Utara, Indonesia</i> • Aulia Ishak Sipahutar, <i>Universitas Sumatera Utara, Indonesia</i> • Rhyval Radot R, <i>Universitas Sumatera Utara, Indonesia</i>
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Notes for Presenters:

- To join a session, please see the zoom link in the following page. You can also go to: <https://linktr.ee/oscm2020>
- Each presenter will have about 20 minutes for presentation including Q and A. Keep your presentation about 15 – 17 minutes so that there is a brief time for Q and A.
- You can use chat facility to communicate with the audience in case there are questions that can not be answered in an oral fashion.
- Please report to the conference chair before the session begin.
- We encourage presenters to open their videos.
- There will be a host in each room that will help the session running. Please ensure that you check your email near the presentation schedule just in case we need to communicate with you.
- Please note that the schedule follows the Jakarta Time (GMT+7)

For session chairs:

- To join a session, please see the zoom link in the following page. You can also go to: <https://linktr.ee/oscm2020>
- Each session chair will need to check the attendance of presenters at the beginning.
- Please ensure that you present in the presentation room few minutes before the session start.
- In case a presenter does not turn up, the session chair has the right to move forward the schedule of the next presenter.
- Please note that the schedule follows the Jakarta Time (GMT+7)

Asynchronous Presentation:

- Those who opted for asynchronous, your presentation will be posted online, and no schedule is assigned. You can still respond to comments if there is any. The link to upload your video is <https://www.oscm-forum.org/oscm-2020-presentation-upload>.

Please go to <https://www.oscm-forum.org/oscm-2020-announcement> to see updates on presentation schedule, to download abstract book, to find zoom links for each session, etc. An alternative short link is to access the sessions is <https://linktr.ee/oscm2020>

Zoom Links

Date	Time (Jakarta Time/GMT+7)	Agenda	Meeting Link	Meeting ID	Password	
14-Dec	15.00 - 15.30	Opening	https://zoom.us/j/92330680215?pwd=OWZvTzA1Qk9HZW9YNGVNMTRFZk1GQT09	923 3068 0215	OSCM2020	
		Opening speech from conference chair (Prof. Dr. I Nyoman Pujawan, CSCP)				
		Opening speech from Vice Rector for Research, Innovation, Cooperation and Alumni, ITS (Dr. Bambang Pramujati)				
	15.30 - 16.15	Keynote Speech I: Prof. Chee Yew Wong, Ph.D.				
		Break				
		Parallel Sessions 1 and 2				
	Day 1	Room 1	https://zoom.us/j/97942766245?pwd=cVhvMVFRRzBGSnIPK1NwazNHcmtodz09	979 4276 6245	OSCM_Room1	
		Room 2	https://zoom.us/j/97690394653?pwd=aGhWcVF3VlI2bm5WT0xuUXRIWE1qZz09	976 9039 4653	OSCM_Room2	
		Room 3	https://zoom.us/j/99917635998?pwd=OUxHZVB3UWs2V2c0aTFURG96MGpCQT09	999 1763 5998	OSCM_Room3	
		Break				

DAY - II

Date	Time (Jakarta Time/GMT+7)	Agenda	Meeting Link	Meeting ID	Password
15-Dec	Day 2	Parallel Session 3			
		Room 1	https://zoom.us/j/94461015478?pwd=QW94eW1sUmdxTEpLSXB2MWNzd3BSdz09	944 6101 5478	OSCM_Room1
		Room 2	https://zoom.us/j/97097443929?pwd=dkVobDg1T3kwT2VYWWJDc0JzeTFCZz09	970 9744 3929	OSCM_Room2
		Room 3	https://zoom.us/j/98996208821?pwd=OFVDbIF3VHIOQXVSZFF0OE5xbVBuUT09	989 9620 8821	OSCM_Room3
		Break			
	Closing	Closing	https://zoom.us/j/93808479467?pwd=dThDTjhmU0hqa0hTSjZONzVLQnUzUT09	938 0847 9467	OSCM2020