



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
Indian Institute of Technology Kanpur, INDIA**

Schedule

19 December 2019

Welcome Address: 09:00-9:30 Hrs

Session 1: Doctoral Colloquium 09:30-11:00 Hrs

Track-1: Venue: IME-C1			
Paper ID	Title	Authors	Affiliation
74	Application of deep learning for throughput forecasting in container supply chain	Sonali Shankar, P.VigneswaraIlavarasan	IIT Delhi
66	Deep learning and cross-temporal hierarchies based framework for demand forecasting	Sushil Punia, Surya Prakash Singh, Jitendra Madaan	IIT Delhi
91	A machine learning model for forecasting domestic LPG demand	Praveen Kumar	Indian Oil Corporation Ltd.
		Debasis Jena	RGIPT (UP)
55	Boosting technological innovativeness in Indian manufacturing SMEs: a novel approach	Anup Chawan, Hari Vasudevan	Dwarkadas J. Sanghvi College of Engineering
100	Systematic study of ergonomic risks assessment in roof sticks manufacturing of bus body	Mangesh Joshi, Himanshu Shukla	Ramdeobaba College of Engineering and Management, Nagpur
Track-2: Venue: IME-C2			
Paper ID	Title	Authors	Affiliation
120	Debottlenecking of warehouse activities in Pharmaceutical supply chain	Shweta	IIT Roorkee
167	Introduction of store choice in India's food security program - Implications on demand distribution, replenishment policy and welfare enhancement	Maya Ganesh, Sarang Deo, Sripad Devalkar	Indian School of Business
156	Integrated production planning and multi-echelon inventory placement for dairy products	Somi Gorai, Sanjeet Singh, Bodhibrata Nag	IIM Calcutta
168	Supply chain resilience: a systematic literature review	Tooba Ahmed	Aligarh Muslim University
57	Carbon footprint implications of demand and supply uncertainties in supply chains	Vikas Kumar, Debadyuti Das, Amit Kumar Bardhan	FMS, University of Delhi
Track-3: Venue: IME-C3			
Paper ID	Title	Authors	Affiliation
117	A modified ant algorithm integrates real-life road constraints in vehicle routing under uncertain environments: A case study of e-commerce courier companies in India	Krishnendu Mondal, Sandeep Mondal	IIT (ISM) Dhanbad



**XXIII Annual International Conference of the Society of Operations Management
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**Industrial & Management Engineering Department
Indian Institute of Technology Kanpur, INDIA**

63	A Clarke and Wright based heuristic approach for implementing recall of utility products	Soumya Vaithinathan, Yogesh Agarwal, Samir Srivastava	IIM Lucknow
70	Modeling reverse logistics network for post-sale service under International ecosystem	Shraddha Mishra, Surya Prakash Singh	IIT Delhi
51	A conceptual framework for using location allocation model to optimise the inland water port- dry port river logistics infrastructure system	Prayash Baruah, Tridib Ranjan Sarma	Tezpur University
46	A Lagrangian approach for solving the Team Orienteering Problem with Non-Identical Agents	Shuvabrata Chakraborty, Yogesh Agarwal	IIM Lucknow

Session 2: Doctoral Colloquium 11:15-12:45 Hrs

Track-1: Venue: IME-C1			
	Title	Authors	Affiliation
24	Comparing blockchain perception from SCM context in Indian manufacturing and service industries	Amit Karamchandani, Samir Srivastava, Sushil Kumar	IIM Lucknow
72	A systematic analysis of complex synergy among KPIs relevant to IFPRS	Ashish Dwivedi, Jitendra Madaan	IIT Delhi
142	IMS maturity and its impact on Operational Performance	Abhishek Vashishth, Ayon Chakraborty	IIM Tiruchirappalli
151	Pre-requisites of adopting industry 4.0 technologies in manufacturing plant	Sourabh Dubey, Saurabh Pathak	IIM Indore
172	Nuances of managing large scale it transformation projects in oil & gas sector - a case study	Abhijit Deb Roy	Rajiv Gandhi Institute of Petroleum Technology
Track-2: Venue: IME-C2			
13	Prioritization and evaluation of barriers to implement CSCM using fuzzy-AHP	Chitranshu Khandelwal, Mukesh Kumar Barua	IIT Roorkee
97	Optimisation of food supply chain considering sustainability dimensions and food waste valorisation	Ramesh Krishnan, K Arshinder	IIT Madras
		Renu Agarwal	UTS Business School, Australia
104	Pharmaceutical companies towards environmental stewardship: A global comparative study	SharveeShrotriya, Somya Chaudhary	Banasthali Vidyapith
111	Sustainable management of MSW: a mathematical modelling perspective	SmeetasreePati, Rajat Agrawal	IIT Roorkee



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
Indian Institute of Technology Kanpur, INDIA**

115	Modelling issues in implementing circular economy practices in food industries chain management for food security and food waste reduction	Saurabh Ardra, Mukesh Kumar Barua	IIT Roorkee
Track-3: Venue: IME-C3			
19	On a non-customer-intensive service queue with impatient and patient customers	S. Srivatsa Srinivas, Rahul Marathe	IIT Madras
52	Knowledge worker productivity: the obscure perception	Abhay Joshi	
60	Reducing patient waiting time in a primary health network using location-allocation model	Kaushal Kumar, Amit Kumar Bardhan	FMS, University of Delhi
87	An analysis of pricing decisions in the internet value chain	Sudha Madhavi Dastrala, Rajeev R. Tripathi	IIM Bangalore
99	Comparative study of ergonomic risk assessment in engine stripping	Mangesh Joshi, Himanshu Shukla	Ramdeobaba College of Engineering and Management, Nagpur

Session 3: Doctoral Colloquium 14:30-16:00 Hrs

Track-1: Venue: IME-C1			
Paper ID	Title	Authors	Affiliation
43	Quality and pricing decisions of web based applications	Sunanda Katewa	IIM Udaipur
		Tarun Jain	IIM Ahmedabad
14	Optimization of quality of life index with α -level of significance of linear constraints	Tsuknungchila Jamir, Prem Prakash Mishra	NIT Nagaland
64	A multidimensional healthcare service model for service satisfaction and behavioral intentions in emerging economies	Shailly Chaurasia, Anandakuttan B. Unnithan	IIM Kozhikode
164	Technological innovativeness and technological alliances in the context of Indian manufacturing SMEs: a qualitative investigation	Anup Chawan, Hari Vasudevan	Dwarkadas J. Sanghvi College of Engineering
107	A novel two-stage network DEA approach to estimate production efficiency of the bus transportation system	Shivam Kushwaha, Shankar Prawesh	IIT Kanpur
		Anand Venkatesh	Institute of Rural Management, Anand
Track-2: Venue: IME-C2			
Paper ID	Title	Authors	Affiliation
22	Profitable market mechanism design for online aggregator taxi services	Swaminathan Rammohan, Rahul Marathe, Nandan Sudarsanam	IIT Madras
20	Strategic channel choice and impact of	Abhishek	IIM Kozhikode



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
Indian Institute of Technology Kanpur, INDIA**

	gray markets on the supply chain and social welfare	Srivastava, Arqum Mateen	
149	Striking the right balance between operational capabilities and dynamic capabilities for new product development excellence: An empirical study employing data envelopment analysis in the electronics sector	Pratap Kumar S	National Institute of Electronics and Information Technology Calicut
		Radha Ramanan T, Muhammad Shafi	NIT Calicut
Track-3: Venue: IME-C3			
Paper ID	Title	Authors	Affiliation
154	Network resilience in clusters: impact of firm and locational disruptions	Shivaneet Pethe, Balram Avittathur, Anirvan Pant, Peeyush Mehta	IIM Calcutta
26	Duopoly airline network design decisions: a case of co-opetition	Ankit Sharma	IIM Lucknow
140	Refurbished vs shared markets: a perspective from healthcare sector	Tania Saha, Sumanta Basu	IIM Calcutta
153	Mathematical modeling and simulation of sawmill operations with a view to improve occupational health and productivity	Himanshu M. Shukla, Mahendra Gupta, Mangesh P. Joshi	Shri Ramdeobaba College of Engineering & Management Nagpur
Track-4: Venue: IME-C4			
Paper ID	Title	Authors	Affiliation
80	Distribution network design of public health system: lessons from select Indian states	Rahul Kumar, Debadyuti Das	FMS, University of Delhi
92	Material flow optimisation of a capacitated vehicle routing problem in a manufacturing plant by using real coded genetic algorithm	Kailash Bhosale	Sanjivani College of Engineering, Kopergaon
		Padmakar Pawar	K.K. Wagh Institute of Engineering Education and Research, Nashik
128	The Value of Time of Use (ToU) pricing in a grid with significant renewable energy supply: Does it co-ordinate?	Subhasis Mishra, Balram Avittathur, Megha Sharma	IIM Calcutta
98	Empirical Assessment of key barriers of Industry 4.0 in manufacturing industries	Naveen Virmani, Urmi Ravindra Salve	IIT Guwahati

Workshop 1 - SAS: 16:15 – 17:45 Hrs, Venue: IME-C5

Workshop 2 - CRC Taylor and Francis: 18:00 – 19:00 Hrs, Venue: IME-C5



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Indian Institute of Technology Kanpur, INDIA**

Schedule

20 December 2019

Inauguration: 09:00 – 10:00 Hrs

Session 4: 10:00-11:15 Hrs

Track-1: Doctoral Colloquium, Venue: IME-C1			
Paper ID	Title	Authors	Affiliation
56	Modeling and analysis of a financially constrained supply chain	Bhawna Priya, Indranil Biswas	IIM Lucknow
112	Examining impact of user perceived e-procurement quality on firm performance	Nripendra Kumar	Bharat Heavy Electricals Ltd.
		Kunal Ganguly	IIM Kashipur
161	A mathematical model to design and plan lean-green supply chain	Mamta Sahare	IIM Indore
Track-2: Doctoral Colloquium, Venue: IME-C2			
Paper ID	Title	Authors	Affiliation
103	Inventory model for the deteriorating items under permissible delay in payments with ramp type demand	Jitendra Kaushik	Sunstone Eduversity, Gurugram
		Ashish Sharma	GLA University, Mathura
121	Connection between lean and green manufacturing : A literature review and research opportunities	Sarita Prasad, A Neelakanteswara Rao, Krishnanand Lanka	NIT Warangal
122	Production planning and control of a hybrid MTS/MTO production network model using asymmetric loss function	Anirban Banerjee, Raghu Nandan Sengupta	IIT Kanpur
88	Performance evaluation of Indian management institutions: pre/post liberalization period	Chandan Jha, Amit Sachan	IIM Ranchi
Track-3: Venue: IME-C3			
Paper ID	Title	Authors	Affiliation
18	Market structure in agriculture supply chain	Dewang Pagare, Amit Agrahari, Indranil Biswas	IIM Lucknow
29	Learning in a closed loop supply chain	PinakhiSuvadashini, Somdeep Chatterjee, Indranil Biswas	IIM Lucknow
123	Evaluation of different environmental policies on manufacturer's strategic decisions	Vinay Ramani	IIM Visakhapatnam
		Debabrata Ghosh	Malaysia Institute for Supply Chain Innovation
		Mithu Rani Kuiti	IIT Jodhpur
		Sanjeev Swami	Dayalbagh Educational Institute



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
Indian Institute of Technology Kanpur, INDIA**

12	A game theoretic analysis of carbon emission and congestion cost in the presence of competition between airlines	Aasheesh Dixit, Suresh Jakhar	IIM Lucknow
		Anjali Awasthi	Concordia University, Canada
89	Pricing decision of a two-sided platform with heterogeneous sellers	Rajeev R Tripathi	IIM Bangalore

Session 5: 11:30 -12:45 Hrs

Track-1: Venue: IME-C1			
Paper ID	Title	Authors	Affiliation
135	Modeling a coordinated supply chain under service level constraint with price-sensitive stochastic demand and discrete transportation lead time	Susheel Yadav, Anil K Agrawal	IIT (BHU), Varanasi
		Manu K Vora	Business Excellence Inc., USA
17	Planned fashion obsolescence in the light of supply chain uncertainty	Anand S.R. Manivannan, Reena Susan Philip, Aswathi Mary Anian	CHRIST, Bangalore
118	Investigating the vaccine supply chain in India	Dheeraj Chandra, Vipin B	IIT Kanpur
86	Impact of contract sequence on three-echelon supply chain coordination under uncertain environment	Rohit Gupta	IIM Ranchi
		Indranil Biswas, B.K. Mohanty, Sushil Kumar	IIM Lucknow
32	Multi-channel closed-loop supply chain models with product remanufacturing	DhanshyamMahavadi, Indranil Biswas, Samir K Srivastava	IIM Lucknow

Track-2: Venue: IME-C2			
Paper ID	Title	Authors	Affiliation
159	A data envelopment approach for energy efficient habitats	Faiz Hamid, Sri Vanamalla V	IIT Kanpur
138	Measuring the efficiency of individual line of businesses of general insurance companies in India using data envelopment analysis	Monika Mittal, Lav Ishan	Birla Institute of Management Technology, Noida
155	Measuring productivity of Indian banks	Dilip Ambarkhane, Ardhendu Shekhar Singh, Bhama Venkataramani	Symbiosis International (Deemed University), Pune
93	Scientific evidence, public opinion and ground reality of health impacts of mobile tower radiations on human - a case study	Monika Sharma	Amity University



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
Indian Institute of Technology Kanpur, INDIA**

163	Case study: manpower productivity improvement in moulding section	Niraj Gupta, Tarun Kumar Verma	Shri Ramswaroop Memorial University
7	Review of blockchain in supply chain	Joe Aboujaoude, Raafat Saade, Mahesh Sharma	Concordia University, Canada
Track-3: Venue: IME-C3			
Paper ID	Title	Authors	Affiliation
37	Cyber-risk assessment model for DDoS attacks using Bayesian methods	Kalpit Sharma, Arunabha Mukhopadhyay	IIM Lucknow
25	Better price for farmers: how computerization affects agriculture prices?	Charu Naithani, Amit Agrahari, Indranil Biswas	IIM Lucknow
34	A conceptual block chain frame work for optimal automotive supply chain	Raj Kumar Reddy Kotha, Kalpana P	IIITDM
119	Implementation of blockchain technology in project management	Gaurav Raj, Pravin Jadhav	IITRAM
		Kuldeep Modh	MDIM
		Pankaj Mann	Samsung Pvt. Ltd.
162	Integration of operation and strategy perspective for successful risk governance	Ruchi Agarwal, Sanjay Kallapur	Indian School of Business
96	The relationship between Project Governance and Project Performance: An Empirical Investigation	Gaurav Kabra	NITIE Mumbai

Session 6: 14:30 - 15:45 Hrs

Track-1: Venue: IME-C1			
Paper ID	Title	Authors	Affiliation
38	A model to identify predictors of demand for regional air-transport	Amit Kumar Das, Amit Kumar Bardhan	FMS, University of Delhi
47	An internal credit scoring model for SMEs using BWM and TOPSIS	P.K. Roy, Krishnendu Shaw	IIT (ISM) Dhanbad
30	How many people in your party? – An experimental research to predict consumer demand in restaurants	Bidhi Kashyap, Ranjith P. V.	CMS Business School, Jain University
147	Demand Forecasting and end to end supply chain optimization in tractor manufacturing industry	Mallikarjuna Reddy Padigapati, JayendranVenkateswaran, Narayan Rangaraj	IIT Bombay
		Rahul Kale	John Deere India
44	Information preferences in the supply chain under strategic inventory and demand uncertainty	Abhishek Roy	Fox School of Business, USA
		Stephen Gilbert, Guoming Lai	McCombs School of Business, University of Texas at Austin



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
Indian Institute of Technology Kanpur, INDIA**

Track-2: Venue: IME-C2			
Paper ID	Title	Authors	Affiliation
130	An agri-business supply chain contract mechanism between a firm and a farmer producer organization	Ranjeet Rajput, Sri Vanamalla	IIT Kanpur
134	Insurance design in agriculture supply chains with random yield	Subhasis Mishra	IIM Calcutta
		Subhankar Mukherjee	IIT Kanpur
59	An analysis of data from tendering of regional air transportation service and its implications	Amit Kumar Bardhan, Amit Kumar Das	FMS, University of Delhi
33	Renewable energy procurement game in developing economy	Jaya Shankar Singh, Amit Agrahari, Indranil Biswas	IIM Lucknow
143	The Shapley value based compliance table for ambulance repositioning	S Parthasarathy, R K Amit	IIT Madras
Track-3: Venue: IME-C3			
Paper ID	Title	Authors	Affiliation
144	A long horizon stochastic inventory routing problem for liquid nitrogen delivery	Saurabh Chandra	IIM Indore
165	An optimization model for a dairy co-operative for sustainable operations for milk collection	Shivshanker Singh Patel,	IIM Visakhapatnam
		Rajeev Pandey,	IHS Markit
		HarekrishnaMisra	Institute of Rural Management, Anand
110	Optimizing multimodal transportation problem for efficient parcel movement in courier industry	MahidharSurapaneni, Abhaya Sahoo, Sarang Jagdale	IBM India Pvt. Ltd.
157	Modeling the route design in animal husbandry supply chain	Sanjay Choudhari	IIM Indore

16:00 – 17:15 Hrs: Panel Discussion: "O.R, Statistics and Computing: The three pillars of Development"

17:30 – 18:30 Hrs: Talk by Prof Kalyanmoy Deb: "Heuristics and Metaheuristics - Applications and Future"



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Schedule

21 December 2019

Session 7: 09:30-11:00 Hrs

Track-1: Venue: IME-C1			
Paper ID	Title	Authors	Affiliation
1	New product development: case studies on two green units	Shrushti Bajpai	National Sugar Institute, Kanpur
11	Designing green logistics for sustainable supply chain	Mahamaya Mohanty	Bennett University (India)
36	Determining the importance of supplier selection process in chemical industry : a case study	Raj Shinde, Pushkar Morye, Ashish Deshmukh	NMIMS, Mumbai
39	Analysis of the impact of collaborative mechanism on sustainability in Indian automobile industry	Debopriyo Mukherji, Ankita Ray	Maulana Abul Kalam Azad University Of Technology (WB)
48	Measuring sustainability efficiency of fast moving consumers goods companies using DEA model	Vijayta Fulzele	Shiv Nadar University
166	Predicting sustainable supply chain performance based on GRI metrics and multilayer perceptron neural networks	Devendra Singh, Krishnanand Lanka, Prc Gopal	NIT Warangal
Track-2: Venue: IME-C2			
Paper ID	Title	Authors	Affiliation
41	Impact of airport congestion on airline profitability	Suresh K Jhakhar, Harshit Sharma	IIM Lucknow
42	Implementing lean thinking in e-commerce Industry – an exploration	Deepak Srivastav, Anand Gurumurthy	IIM Kozhikode
68	Joint optimization of airline pricing and seat allocation under choice-based demand	Aparna Jayaram, Amit R. K., Kavitha Balaiyan	IIT Madras
		Amit Agarwal	Sabre, India
		Xiaodong Luo	Sabre, USA
129	Assessing relative importance and mutual influence of barriers in business correspondent model using DEMATEL approach	Richa Goyal, Sujata Kar	IIT Roorkee
139	A heuristic approach to fixed budget tourist trip design problem	Abhishek Vashishth	IIM Tiruchirappalli
		Kamal Gupta	IIT Kanpur
170	Waiting time reduction in a hospital outpatient clinic using Flexsim simulation	Sumanta Roy, Prasanna Venkatesan Shanmugam, Saurabh Lalwani	NIT Trichy



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
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Track-3: Venue: IME-C3			
Paper ID	Title	Authors	Affiliation
16	Is your supply chain visible?	Mirzayan Ahmed Begg, Sarnendu Paul	Asansol Engineering College (WB)
45	Assessment of various work-related musculoskeletal disorders among the construction workers in West Bengal, India	Koushik Bag, Sibamay Dasgupta	Maulana Abul Kalam Azad University Of Technology (WB)
54	Critical success factors across industry sectors of indian public sector' projects	DebabrataSamanta	AIMA-AMU
		Gourav Dwivedi	IIT Delhi
113	Production smoothing: evidence in Indian automobile industry	Ajay Singh, RK Amit	IIT Madras
126	Green supply chain management in Indian petroleum industry using: R programming approach	Sourabh Kumar, Mukesh Kumar Barua	IIT Roorkee
150	Aligning user experience design operations with agile scrum development framework	Abhijeet Shukla	Tata Consultancy Services

Session 8: 11:15-13:00 Hrs

Track-1: Venue: IME-C1			
Paper ID	Title	Authors	Affiliation
4	Consumer choice behavior and models: implications for retail assortment planning	Soumyadeep Kundu, Ashutosh Sarkar	IIM Kozhikode
27	The PRV problem – solution and extensions	Rahul S, Srinivasan G	IIT Madras
102	Nurse staffing and scheduling optimization solution for a healthcare service industry	Abhaya Kumar Sahoo	IBM India Pvt. Ltd.
146	A course timetabling problem	Ankit Rathore, Avijit Khanra	IIT Kanpur
152	Industrial engineering application in production unit	Ratnesh Srivastav, Jayendran Venkateswaran, Narayan Rangaraj	IIT Bombay
169	Industry implementable part launch sequence optimization	PraneethAkondi	John Deere India
		Jayendran Venkateswaran, Ashutosh Mahajan	IIT Bombay
90	Supply chain management practice and supply chain performance: a conceptual systematization of terminology and key factors affecting SCM practice and sc performance in manufacturing industry	Rohit Kumar, Sushil Kumar Poddar	NIT Allahabad
Track-2: Venue: IME-C2			
8	Robust multi-objective solution approach for multiple quality characteristic optimization problems	Abhinav Kumar Sharma, Indrajit Mukherjee	IIT Bombay



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
Indian Institute of Technology Kanpur, INDIA**

15	Quality-cost trade-off problem: smart IOT based optimization of construction projects	Saikat Mukherjee, Saurav Das, Bivash Mallick, Ankita Ray	Maulana Abul Kalam Azad University Of Technology (WB)
50	Determinants of customer satisfaction on service quality of state road transportation sector of eastern India	Mainak Das, Mainak Gosh, Sourav Das, Bivash Mallick	Maulana Abul Kalam Azad University Of Technology (WB)
82	Manpower planning in a hyper-local food delivery organization: a case study	Debadyuti Das, Chirag Yadav	FMS, University of Delhi
105	Sustainable parallel machine scheduling: trade-off between tardiness and energy consumption	Athul Prem Unni, Bobin Cherian Jos	Mar Athanasius College of Engineering, Kerala
		Chandrasekharan Rajendran	IIT Madras
127	A fix-and-optimize heuristic for multi-item dynamic lot-sizing with remanufacturing	G. Abhishek Ganesh, Ajinkya N. Tanksale	IIT (BHU), Varanasi
Track-3: Venue: IME-C3			
3	Sustainable mobility project selection using a fuzzy axiomatic design based approach	Anjali Awasthi, Mahesh Sharma	Concordia University, Canada
35	Status evaluation and characterization of existing waste management system in kalyani-kanchrapara-gayespur city: a case study	Rupak Sarkar, Ankita Ray	Maulana Abul Kalam Azad University Of Technology (WB)
40	Analysis of issues of ELV management in India: a fuzzy analytical hierarchy process approach	Sima Kundu, Ankita Ray, Bivash Mallick	Maulana Abul Kalam Azad University Of Technology (WB)
49	Wireless charging of electric vehicle	Ajoyjit Ghosh	Maulana Abul Kalam Azad University Of Technology (WB)
		Pranjit Kumar Roy	Jalpaiguri Government Engineering College
108	Practitioners' perspectives on channel coordination in green supply chain management	Tatavarty Guru Sant	GLA University
		Sanjeev Swami	Dayalbagh Educational Institute
		Ravi Shankar	IIT Delhi
2	Agent based simulation of RFID	Bardia Dejam,	Concordia



**XXIII Annual International Conference of the Society of Operations Management
(SOM2019)**

**Industrial & Management Engineering Department
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	Potential in aircraft reverse logistics	Anjali Awasthi	University, Canada
148	Vehicle routing problem for organized health care waste collection and optimization: a case study of Varanasi	Abhishek Raj	IIT (BHU), Varanasi

Closing Ceremony: 14:30 – 16:00 Hrs