

Program			
Time	Thursday, June 27	Friday, June 28	Saturday, June 29
08:30-09:00 am	Registration Open	Presentation session 3 (parallel in-person and online)	Presentation session 5 (parallel in-person and online)
09:00-09:30 am	Inaugural ceremony, Keynote Speech (ED 193)		
09:30-10:00 am	Coffee Break (CK 185)		Coffee Break (CK 185)
10:00-10:30 am	Panel discussion: CCUS in Mining industry (ED 193)	Coffee Break (CK 185)	Presentation session 6 (parallel in-person and online)
10:30-11:00 am		Panel discussion: Net-Zero Community (ED 193)	
11:00-11:30 am	Lunch (College West CW215)	Lunch (College West CW215)	Lunch (College West CW215)
11:30-12:00 pm			
12:00-12:30 pm	Panel discussion: Energy Transition (ED 193)	Panel discussion: EDI in Engineering (ED 193)	
12:30-01:00 pm			
01:00-01:30 pm	Presentation session 1 (parallel in-person)	Presentation session 4 (parallel in-person)	
01:30-02:00 pm			
02:00-02:30 pm	Coffee Break (CK 185)	Coffee Break (CK 185)	
02:30-03:00 pm	Presentation session 2 (parallel in-person)	Meet the Editor Session (ED 193)	
03:00-03:30 pm			
03:30-04:00 pm			
04:00-04:30 pm			
04:30-05:00 pm			
05:00-05:30 pm			
05:30-06:00 pm			
06:00-09:00 pm	Banquet Dinner (Multi-Purpose Room)		

Onsite (In-person) Presentation Schedule

Industrial Track (Thursday, June 27)

	Paper ID	Time	Authors	Title
Session: Operations Management Session ID: ID1P1 Room: ED 314 Time: 2:30 PM to 3:30 PM	4457	2:30 PM	Nishi Panchal, Pranav Topre and Golam Kabir	Evaluation of Semiconductor Risk Mitigation Strategies in the Electric Vehicle Supply Chain
	4484	2:45 PM	Muhammad Atiq Ur Rehman, Sharfuddin Ahmed Khan and Amin Chaabane	Enhancing Construction Project Performance through Integrated and Optimized Supply Chain Management
	8269	3:00 PM	Muhammad Huzaifa Najmi and Sharfuddin Khan	Analytical Framework Development for Industrial Standardization – A WHO-Guided Pharmaceutical Water Management System
	780	3:15 PM	Jaspreet Singh Jarry, Paul Hudon and Denise S. Derby Stilling	Application of World Class Management During Prototyping Prior to Production

	Paper ID	Time	Authors	Title
Session: Optimization and Simulation Session ID: ID1P2 Room: ED 314 Time: 4:00 PM to 5:00 PM	4593	4:00 PM	Seyedmehdi Mirmohammadsadeghi and Golam Kabir	Formulation and Solution of the Stochastic Truck and Trailer Routing Problem
	6998	4:15 PM	S M Rafew, Niamat Ullah Ibne Hossain and Golam Kabir	Forecasting Electric Vehicle Adaption Using System Dynamics: A Case Study of Regina, Saskatchewan
	4410	4:30 PM	Mukondeleli Grace Kanakana Katumba, George Katumba and Kazeem Aderemi Bello	Optimization of The Clothing Industry Manufacturing Process to Improve Efficiency
	4332	4:45 PM	Pedram Monfared, Xiaoning Fei and Wei Peng	Computation of Inverse Kinematics of Redundant Manipulator Using Particle Swarm Optimization Algorithm and Artificial Intelligence

Manufacturing Track (Thursday, June 27)

	Paper ID	Time	Authors	Title
Session: Additive Manufacturing Session ID: MD1P1 Room: ED 315 Time: 2:30 PM to 3:30 PM	3174	2:30 PM	Mohammad Javad Hooshmand and Mohammad Abu Hasan Khondoker	Mechanical Characterization of UV Curable Resin-based Poly-mer Foams Containing Triply Periodic Minimal Surface Lat-tice Structures
	3145	2:45 PM	Chowdhury Sakib-Uz-Zaman and Mohammad Abu Hasan Khondoker	Design and Flow Simulation of Resin Dispensing System for UV Laser-based Extrusion 3D Printing Technique
	5897	3:00 PM	Rokeya Sarah, Benjamin Szum and Ahasan Habib	Nanofiber Filled Alginate-Gelatine Hybrid Hydrogel: Rheol- 2 ogy and Shape Fidelity of 3D Printed Scaffold
	3032	3:15 PM	Seyed Mohamad Medhi Kai, Graeme R. Drysdale and Denise S. Derby Stilling	Effects of Infill Parameters on Tensile, Flexural and Frequency Properties on 3D Printed PLA Specimens

	Paper ID	Time	Authors	Title
Session: Design for Manufacturing Session ID: MD1P2 Room: ED 315 Time: 4:00 PM to 5:00 PM	7094	4:00 PM	Arafater Rahman and Mohammad Abu Hasan Khondoker	Numerical Approach on Fatigue Life Prediction of Harrow Tines Considering Geometrical Variations
	4512	4:15 PM	Zhengyuan Zhang and Liming Dai	An innovative rotation number method for nonlinear dynamical system characterization
	4278	4:30 PM	Zhengwei Guo and Liming Dai	Research on Tooth Wear of Non-spherical Single-cone Bit in Hard Rock Formation of Deep Well
	1438	4:45 PM	Md Rashid Alam and Mohammad Abu Hasan Khondoker	Characterization of Post-Sintering Shrinkage of Ceramic-based Lattice Structures Printed using LCD Resin Printer

Process Track (Thursday, June 27)

	Paper ID	Time	Authors	Title
Session: Techno-Economic Analysis and Energy Systems Session ID: PD1P1 Room: ED 388 Time: 2:30 PM to 3:30 PM	369	2:30 PM	Mohammad Nobakht, Pali Rosha, Michael Fabrik and Hussameldin Ibrahim	Techno economic analysis of CO2 capture from ABYEK cement plant with DGA-TEA solvent blend
	3105	2:45 PM	David Ross-Hopley, Lord Ugwu and Hussameldin Ibrahim	Techno-Economic Analysis Using HOMER Pro Software
	3549	3:00 PM	David Ross-Hopley, Lord Ugwu and Hussameldin Ibrahim	Techno-Economic Opportunities for Integration of Renewable Energy into Saskatchewan Irrigation Projects Using HOMER
	8405	3:15 PM	Mohammad Sajjadi, Michael Fabrik, Pali Rosha and Hussameldin Ibrahim	Comparative Techno-Economic and Life-Cycle Assessment for Blue H2 Production Plant Using Solid Adsorption and Amine-based Absorption

	Paper ID	Time	Authors	Title
Session: Process Engineering and Innovation Session ID: PD1P2 Room: ED 312 Time: 2:30 PM to 3:30 PM	1022	2:30 PM	Jephthah Ofoe and Hussameldin Ibrahim	High-Yield Versatile Char Production via Low-Grade Coal Carbonization
	2321	2:45 PM	Ishag Alawad, Paul Laforge, Doug Wagner, Heng Xiao, Jinguang Hu and Hussameldin Ibrahim	Pulsed electric field pretreatment of flax straw: the effect of particle size
	5599	3:00 PM	Barialo Zorzor, Michael Fabrik and Hussameldin Ibrahim	Production of Potassium Sulphate from an Aqueous Sodium Sulphate from Lead Acid Battery Recycling
	8570	3:15 PM	Feysal Ali and Hussameldin Ibrahim	Innovations in Clean Energy Technologies: A Comprehensive Exploration of Research at CETRI, University of Regina

	Paper ID	Time	Authors	Title
Session: Carbon Capture and Utilization Session ID: PD1P3 Room: ED 388 Time: 4:00 PM to 5:00 PM	176	4:00 PM	Adjei Domfeh, Jessica Narko-Tetteh, Teeradet Supap, Foster Appiah and Raphael Idem	Holistic approach to decarbonization: quantitative analysis of emission hotspots in natural gas processing facilities
	1447	4:15 PM	Patience Bekoe, Teeradet Supap, Jessica Narko-Tetteh and Raphael Idem	Towards Achieving Net Zero Emissions from The Co-Combustion of Natural Gas and Biomass: A Commercial Pathway for Evaluating the Performance of a Novel Solvent
	2830	4:30 PM	Thomas Boakye, Raymond Asante, Pailin Muchan, Jessica Narko-Tetteh, Teeradet Supap and Raphael	Investigative studies on the stability of an amine blend in the presence of flue gas metal oxide impurities during a CO2 capture process
	5192	4:45 PM	Enoch Otoo, Teeradet Supap, Jessica Narko-Tetteh and Raphael Idem	Pretreatment by Simultaneous Removal of SO2 and NO2 from Flue Gas

Onsite (In-person) Presentation Schedule

Industrial Track (Friday, June 28)

	Paper ID	Time	Authors	Title
Session: Sustainable Development and Circular Economy Session ID: ID2P1 Room: ED 314 Time: 8:30 AM to 10:30 AM	548	8:30 AM	Shahanaj Sultana, Sharfuddin Ahmed Khan and Mohammad Abu Hasan Khondoker	Integrating 3D Printing into Traditional Construction Supply Chains: A Systematic Review of Challenges, Benefits, and Frame-work Proposal
	3709	8:45 AM	Md Shahariar Ahmed, Sheikh Md Shahadat Kabir, Arafat Sultan Khan and Sharfuddin Ahmed Khan	Sustainable Management of Spent Lithium-Ion Batteries: The Role of Reverse Logistics in the Automotive Sector.
	549	9:00 AM	Md Shahariar Ahmed, Anica Tasnim and Golam Kabir	From Grinding to Green Energy: Pursuit of Net-Zero Emissions in Cement Production
	2491	9:15 AM	Md Shahariar Ahmed, Sheikh Md Shahadat Kabir, Anica Tasnim, Arafat Sultan Khan, Kabita Bhowmik	A Sustainable Approach to Waste Management: Selecting the Optimal Landfill Site in Saskatchewan, Canada
	4414	9:30 AM	Al Thibeault	The Clean Energy Transition and the Rare Earth Industry
	4588	9:45 AM	Eman Almehdawe, Elham Soufiani and Yili Tang	Investigation of EV Charging Sessions: Analyzing Patterns Over Time and Across Locations
	5853	10:00 AM	Saeed Nazarian and Sharfuddin Ahmed Khan	Integrating Social Sustainability into Supply Chain Management from the perspective of the United Nations SDGs
	7065	10:15 AM	Vyapil Patel, Apurv Vasani, Ammar Patel, Gaurav Viradiya and Sharfuddin Ahmed Khan	Advancing Circular Supply Chain Management for Mobile Phones: Investigating the Minimization of E-Waste and Its Environmental Consequences.

	Paper ID	Time	Authors	Title
Session: Supply Chain Management Session ID: ID2P2 Room: ED 314 Time: 2:30 AM to 3:30 AM	3110	2:30 PM	Sama Hosseini Androod, Mahshid Babakhan, Naomi Biroki, Atiyeh Khorasani, Muhammad Roman Aslam	Sustainability-related impacts of digitalization on supply chain management
	4602	2:45 PM	Muhammad Huzaifa Najmi, Sm Anas Iqbal and Sharfuddin Khan	Aligning Supply Chain Functions with Emerging Technologies: A Strategic Approach
	7530	3:00 PM	Hamideh Nazarian and Sharfuddin Ahmed Khan	Industry 5.0 and Overall Supply Chain Performance: A Proposed Conceptual Framework
	8613	3:15 PM	Shahanaj Sultana, Nayan Paul, Maliha Tasmin, Arnab Kanti Dutta and Sharfuddin Ahmed Khan	Analyzing Supply Chain Risks and Resilience Strategies: A Systematic Literature Review

	Paper ID	Time	Authors	Title
Session: Sustainable and Resilient Infrastructure Session ID: ID2P3 Room: ED 312 Time: 2:30 PM to 3:30 PM	8478	2:30 PM	Chowdhury Sakib-Uz-Zaman, Md Ainul Kabir and Md Golam Kabir	A Comprehensive Asset Management Plan for Bridges of On-tario for the years 2023-2025
	9663	2:45 PM	Imteaz Bhuiyan	Engineering Resilience: Developing an Intergrated Framework for Geotechnical Asset Management in Water and Tailings Dam Infrastructures
	5173	3:00 PM	Md Saiful Arif Khan, Golam Kabir, Muntasir Billah and Subhrajit Dutta	Enhancing Seismic Resilience of Bridge Infrastructure: A Bayesian Belief Network Approach to Risk Assessment and Management

Manufacturing Track (Friday, June 28)				
	Paper ID	Time	Authors	Title
Session: Polymers and Composites Session ID: MD2P1 Room: ED 315 Time: 8:30 AM to 10:30 AM	2828	8:30 AM	Jaykumar Patel, Virender Singh and Denise S. Derby Stilling	Assessing Composites from Agricultural Waste Streams
	4319	8:45 AM	Anaamalaai Annamalai Senthilnathan and Denise S. Derby Stilling	Starch-Fibre Composites for a Biodegradable Drinking Straw
	5727	9:00 AM	Anaamalaai Annamalai Senthilnathan, Composite Manufacturing Students and Denise S. Derby Stilling	Composite Manufacturing in an Inclusive Experiential Learning Environment
	3813	9:15 AM	Jacob Muthu, Dirar Aletan and Nithish Balan	Graphite Doped PAN Nanofiber Mats Polymer Composite Pipeliners: Absorption Characterization
	3870	9:30 AM	Niaz Quader, Jacob Muthu and Golam Kabir	Diffusion Analysis of Flue Gases through Carbon Nanotube and Graphene Reinforced PEBAX Nanocomposite Membranes: A Molecular Dynamic Study
	3357	9:45 AM	Leonard Etonyeaku, Jacob Muthu and Golam Kabir	Response Surface Modelling and Optimization of Polymer-Nanocomposite Properties for Corrosion Mitigation and Asset Integrity Management

	Paper ID	Time	Authors	Title
Session: Design for Manufacturing Session ID: MD2P2 Room: ED 315 Time: 2:30 PM to 3:30 PM	6497	2:30 PM	Arafater Rahman, M.A. Wadud, Md. Abdul Hasib and Mohammad Ashrafur Islam	Sustainable Bicycle Crank Arm Selection Using Life Cycle Analysis under Typical Cycling Pedal Force
	1595	2:45 PM	Denise S. Derby Stilling	Equity, Diversity and Inclusion in Engineering Undergraduate Courses
	4889	3:00 PM	Jude Akogwu and Golam Kabir	Prioritization of Mechanical Equipment Failure Modes using Rough-TOPSIS Method
	6615	3:15 PM	Graeme Drysdale and Graham Corsar	A Review of Digital Projection and Measurement Technologies for Industrial Fabrication Quality Assurance

Process Track (Friday, June 28)				
	Paper ID	Time	Authors	Title
Session: Advanced Process Engineering Session ID: PD2P1 Room: ED 388 Time: 8:30 AM to 10:30 AM	653	8:30 AM	Lord Ugwu, Yasser Morgan and Hussameldin Ibrahim	Analysis of the descriptors of the oxidative coupling of methane reaction, using varying machine learning approaches
	5672	8:45 AM	Lord Ugwu, Yasser Morgan and Hussameldin Ibrahim	Analysis of the Pyrolysis of Methane Reaction over Molten Metals for CO ₂ -Free Hydrogen Production: An Application of DFT and Machine Learning
	8982	9:00 AM	Feysal Ali, Doug Perovic, Geoffrey Ozin and Hussameldin Ibrahim	Silicon Nanowire-Supported Catalysts for the Photocatalytic Reduction of Carbon Dioxide
	5533	9:15 AM	Arezou Lak, Mehran Mehrandezh and Denise S. Derby	EDEM Modeling of Fertilizer Distribution for Precision Agri-culture
	4422	9:30 AM	Michael Fabrik and Hussameldin Ibrahim	Assessing the Performance of CCS Equipped Natural Gas Combined Cycle Power Stations under Partial Load
	8834	9:45 AM	Lord Ugwu, Yasser Morgan and Hussameldin Ibrahim	Valorization of methane for ethylene production through oxidative coupling: an application of DFT and data analytics in catalyst design for improved methane
	5648	10:00 AM	Feysal Ali, Doug Perovic, Geoffrey Ozon and Hussameldin Ibrahim	Photothermal Reduction of Carbon Dioxide using Magnetite Photocatalyst
	5105	10:15 AM	Krishna Moorthy Kannaiyan, Adisorn Aroonwilas and Amornvadee Veawab	Recent Development in Thermochemical Energy Storage

	Paper ID	Time	Authors	Title
Session: Environmental Engineering and Management Session ID: PD2P2 Room: ED 388 Time: 2:30 PM to 3:30 PM	5434	2:30 PM	Kufre Archibong, Jessica Narku-Tetteh, Teeradet Supap, Foster Appiah, Pailin Muchan and Raphael	Absorption and Desorption Activities of Amine Solvents at Different CO ₂ Concentrations and Modeling of Structure-Activity Relationships Using
	7749	2:45 PM	Eric Quaye and Amr Henni	Solubility of Carbon Dioxide and Ethane in promising BIS TRI (Fluoromethylsulfonyl) imide anionic based ionic liquids
	214	3:00 PM	Niraj S. Topare, Sunita Raut-Jadhav and Anish Khan	Development of an Operationally Efficient and Cost-Effective System for Removal of Dyes from Wastewater Using Novel Adsorbent
	3071	3:15 PM	George Katumba and Mukondeleli Grace Kanakana Katumba	The removal of calcium from borehole water using zeolite as ion exchanger to prolong the life shelf of membranes, Review paper.

Onsite (In-person) Presentation Schedule

Industrial Track (Saturday, June 29)

	Paper ID	Time	Authors	Title
Session: Soft Computing Techniques Session ID: ID3P1 Room: ED 314 Time: 8:30 AM to 10:00 AM	225	8:30 AM	Imran Raihan Khan Rabbi, Hamza Zouaghi and Wei Peng	An intelligent system approach for predicting the risk of heart failure
	357	8:45 AM	Zahra Ehsani, Shuo Li and Wei Peng	An Intelligent System for the Early Detection of Prostate Cancer
	8513	9:00 AM	Sahar Khodabakhshi, Md Ali Ahsan Habib and Wei Peng	A decision making system for medical transportation mode using machine learning methods
	3708	9:15 AM	Kanwar Mansoor Ali, Talha Ahmed Khan, Syed Mubashir Ali, Asif Aziz, Sharfuddin Ahmed Khan and	An Exhaustive Comparative Study of Machine Learning Algorithms for Natural Language Processing Applications
	8621	9:30 AM	Pooneh Marzbani, Golam Kabir and Niamat Hossain	Metal Culvert Renewal Prioritization Framework Using Fuzzy Inference System

	Paper ID	Time	Authors	Title
Session: Decision Analysis Session ID: PD3P2 Room: ED 314 Time: 10:30 AM to 12:00 AM	231	10:30 AM	Md Ahsanul Habib and Golam Kabir	Analyzing the Challenges in the Healthcare System of Bangladesh
	2011	10:45 AM	Vyapil S. Patel, Yash Bhavsar and Golam Kabir	Strategic Assessment of E-Learning Platforms selection: A Multi Criteria Decision Analysis for Students in India
	2524	11:00 AM	Neda Maroof Mashat and Golam Kabir	Selection of wind turbine blade material using intuitionistic fuzzy TOPSIS method
	9595	11:15 AM	Md Masudur Rahman, Ghazi Abu Taher and Golam Kabir	Product Portfolio Optimization Using Multi-Criteria Decision Analysis
	3587	11:30 AM	Behnoosh Shahidpoorfalah, Sama Hosseini Androod and Golam Kabir	Risk Assessment of Digital Technologies in Sustainable Supply Chain Management: A Fuzzy VIKOR method
	4016	11:45 AM	Pranav Topre, Nishi Panchal, Hansraj Tundiya, Mohammad Ali Palsaniya, Yash Bhavsar and	Sustainable Supply Chain Management for Plastic Manufacturing Small and Medium Enterprises Using MCDA Method

Manufacturing Track (Saturday, June 29)				
	Paper ID	Time	Authors	Title
Session: Additive Manufacturing Session ID: MD3P1 Room: ED 315 Time: 8:30 AM to 10:00 AM	40	8:30 AM	Md Ahsanul Habib and Mohammad Khondoker	Additive Manufacturing of Inflatable Thermoplastic Extrudates using a Pellet Extrude
	51	8:45 AM	Chowdhury Sakib-Uz-Zaman and Mohammad Khondoker	Microcontact Printing of Polymeric Devices: Fabrication Tech-niques, Applications and Challenges
	424	9:00 AM	Anaamalaai Annamalai Senthilnathan, Md Nasir Uddin, Mohammad Abu Hasan Khondoker and	Effects of Raw Material Size in Composite Filament Extrusion for Additive Manufacturing
	3982	9:15 AM	Mohammad Ruhul Amin and Mohammad Abu Hasan Khondoker	Design and Characterization of Additively Manufactured Patient-specific Wrist Hand Orthosis
	4665	9:30 AM	Sheetal Kaushal, Jane Morales, Mathew Martineau, Dane Fichter and Denise S. Derby Stilling	Additive Manufacturing in a Capstone Design Project of an Adaptive Rehabilitation Device for Fingers

	Paper ID	Time	Authors	Title
Session: Additive Manufacturing Session ID: MD3P2 Room: ED 315 Time: 10:30 AM to 12:00 AM	9733	10:30 AM	Md Ahasan Habib, Connor Quigley, Rokeya Sarah, Benjamin Szum and Shah Limon	Factorial Design of Experiments in Controlling Porosity For 3D Bio-printed Scaffolds
	1265	10:45 AM	Arash Motalebi Motalebi, Mohammad Abu Hasan Khondoker and Golam Kabir	Sustainable Structures Unveiled: Navigating the Environmental Landscape of 3D Printing in Construction
	2335	11:00 AM	Rawan Elasersawy, Golam Kabir and Mohammad Abu Hasan Khondoker	Evaluating 3D printing parameters of an elastomeric resin for higher stretchability and strength using AHP and TOPSIS
	2045	11:15 AM	Romina Donyadari, Mohammad Abu Hasan Khondoker and Barbara Ferruzca Ortiz	Optimization of Printing Parameters for Extrusion 3D Printing of Ceramic Clay
	6530	11:30 AM	Sanjoy Dam and Mohammad Abu Hasan Khondoker	Design and Numerical Investigation of High-Performance Heat Exchangers Containing Triply Periodic Minimal Surface Lattice Structures

Process Track (Saturday, June 29)				
	Paper ID	Time	Authors	Title
Session: Advanced Materials and Techniques Session ID: PD3P1 Room: ED 388 Time: 8:30 AM to 10:00 AM	4372	8:30 AM	Mohammad Sajjadi, Manel Vallès, Arnau Nadal, Ahmed Aljundi, Albert Serra, Sylvester Osarhiemen	Technical and Environmental Assessment of H2 Production from Cracking Unit Off-Gas, Terneuzen Case Study
	5429	8:45 AM	Feysal Ali, Pali Roshia and Hussameldin Ibrahim	Investigating Sustainable Hydrogen Production via Catalytic Steam Reforming of Ethanol over Stable Commercial Catalysts
	8047	9:00 AM	David Ross-Hopley, Lord Ugwu and Hussameldin Ibrahim	Capacity Shortages for Grid Disconnected Irrigation in Saskatchewan Using HOMER
	9604	9:15 AM	Feysal Ali, Pali Roshia and Hussameldin Ibrahim	Kinetic Study on the Steam Reforming of Ethanol for Hydrogen Production over a Commercial Nickel-based Catalyst
	1768	9:30 AM	Collins Nyarko, Everett Rueve, Yuewu Feng and Rafay Anwar	Assessment of Equipment Reliability in a Carbon Capture Plant: RAM Analysis Approach
	6483	9:45 AM	Shixuan Lu, Zhengyuan Zhang, Na Jia and Liming Dai	Vibrational Excitation as a Catalyst for Enhanced Carbon Sequestration in CCUS Technologies

	Paper ID	Time	Authors	Title
Session: Decarbonization Strategies and Technologies Session ID: PD3P2 Room: ED 388 Time: 10:30 AM to 12:00 AM	6118	10:30 AM	Raymond Asante, Thomas Boakye, Pailin Muchan, Teeradat Supap and Raphael Idem	Stability studies of a novel amine blend for the capture of CO2 generated from indirect co-combustion of natural gas and bio-mass
	7314	10:45 AM	Mariam Hanson, Paweesuda Natewong, Jessica Narku-Tetteh, Teeradet Supap and Raphael Idem	Optimization and comparative analysis for sustainable waste to resource pathway in utilizing biomass via biobased heterogeneous catalysis for biodiesel
	8805	11:00 AM	Samuel Adjete, Jessica Narku-Tetteh, Teeradet Supap, Raphael Idem and Paweesuda Natewong	Beyond Net-Zero Carbon Emissions in Industrial Processes through Catalyst-Aided Amine Solvents for the Indirect Co-Combustion of Natural Gas and
	9840	11:15 AM	Sophia Ekanem, Raphael Idem, Teeradet Supap and Jessica Narku-Tetteh	Performance Evaluation of a New Novel Amine Bi-Blend Solvent in a Catalyst Aided CO2 Capture Process in a Full Cycle Mini Pilot Plant
	6857	11:30 AM	Osman Salad Hersi and Naveed Iqbal	The Winnipeg Formation of southern Saskatchewan: an excellent candidate for CO2 capture and storage (CCS) system
	3875	11:45 AM	Sanjoy Dam, Mohammad Ruhul Amin, Shivam Sharma, Manmohan Singh and Paitoon	A study on the improvement scopes of the Operating Conditions at Boundary Dam Unit 3 Carbon Capture and Storage Facility

Online Presentation Schedule

Industrial Track (Friday, June 28)

	Paper ID	Time	Authors	Title
Session: Operations Management Session ID: ID2O1 Time: 8:30 AM to 10:30 AM	2587	8:30 AM	Imranul Hoque and Razia Sultana	Climate Change, Supplier Capabilities and Environmental Sustainability: A Cross-border Buyer-Supplier Relationship Perspective
	638	8:45 AM	Dorin-Ion Dumitrascu and Adela-Eliza Dumitrascu	Failure Modes and Effects Analysis for Automotive Trim Parts Processing
	7926	9:00 AM	Dorin-Ion Dumitrascu, Alexandru-Nicolae Rusu and Adela-Eliza Dumitrascu	Quality Defects Analysis for Manufacturing Processes of Automotive Trim Parts
	2199	9:15 AM	Kibele Sebnem Yildirim, Armita Tehranchi, Amin Ahmadi Digehsara and Amir Ardestani-Jaafari	Applications of Operations Research in Wildfire Management: A Systematic Review
	7004	9:30 AM	Daniel L. Arango, Dr. Alexandr Sokolov, Saroj Raut and Dr. Niamat Ullah Ibne Hossain	Leveraging LEAN Six Sigma to Optimize the U.S. Air Force Safety Reporting Process
	2856	9:45 AM	Pawan Bhandari, M. Affan Badar, Christopher Kluse and Suhansa Rodchua	Preoperative and Postoperative Factors Associated with 30-day Postoperative Emergency Room Visit for Bariatric Patients in 3 the United States: A Systematic
	2951	10:00 AM	Khuram Shahzad, Ayesha Bakhtawar and Amir Rizwan	The role of organizational digital transformation for enhancing digital intelligence: mediation of organizational e-learning capability
	6450	10:15 AM	Denby Truman and Ratna Sari Dewi	Analysis of The Effect of Mental Workload and Burnout on Safety Behavior Employees Roster System In The Oil and Gas Industry

	Paper ID	Time	Authors	Title
Session: Operations Management Session ID: ID2O2 Time: 8:30 AM to 10:30 AM	9166	8:30 AM	Kibele Sebnem Yildirim, Armita Tehranchi, Amin Ahmadi Digehsara and Amir Ardestani-Jaafari	Improving Access to Community Pharmacies in Rural Areas: A Drone Delivery
	6812	8:45 AM	Golam Kabir, Denghui Wang and Dustin Unger	Analysis of Risks faced by Chinese Exporters After Entering the International Market
	5114	9:00 AM	Jorge Hernan Torres Berrio and Miguel Angel Ospina Usaquen	Industrial metabolisms MFA model applied in a startup in Canada
	1664	9:15 AM	Talha Ahmed Khan, Syed Mubashir Ali, Kanwar Mansoor Ali, Asif Aziz, Sadique Ahmad, Azeem Anwar and Sharfuddin Ahmed Khan	Harnessing Artificial Intelligence for Optimum Performance in Industrial Automatiionn
	4024	9:30 AM	Sherbaz Khan, Fatima Tul Zehra and Sharfuddin Khan	The Influence of supply chain collaboration, artificial intelli-gence, and risk management performance on organizational performance, supply chain
	7174	9:45 AM	Olusayo Ayobami Bamgbose, Babatunde Fatai Ogunbayo, Clinton Ohis Aigbavboa and Kunle Elizah	A Systematic Review of Client Satisfaction and Success Factor in BIM-Enabled Projects
	9004	10:00 AM	Kunle Elizah Ogundipe, Babatunde Fatai Ogunbayo and Clinton Ohis Aigbavboa	Issues and Challenges Affecting Supply Chain in Project De-livery: Construction Professional Perspectives
	1744	10:15 AM	Seyi Stephen, Clinton Aigbavboa, Ayodeji Oke, Opeoluwa Akinradewo and Ayobami Idowu	Constructing Cyber Resilience: A Focus on Cybersecurity Measures in the South African Construction Sector

Manufacturing Track (Friday, June 28)				
	Paper ID	Time	Authors	Title
Session: Advanced Design and Manufacturing Session ID: MD201 Time: 8:30 AM to 10:30 AM	319	8:30 AM	Md Milon Hasan, Asif Islam and Mohammad Abu Hasan Khondoker	Computational Analysis of Different Stiffener Designs for Power Transformer Tank Walls
	1165	8:45 AM	A S M Ahsanul Sarkar Akib, Md Shamiul Islam and Md Abdullah Al Ahasan	IoT-based Smart Remote Door Lock and Monitoring System using an Android Application
	3214	9:00 AM	Shinichiro Ejiri	Multi-Material Axial-Flow Impeller with Inconel 718 Laminated on SST 304 by Wire Arc Additive Manufacturing
	6383	9:15 AM	Sumit Chanda, Md.Abdul Hasib, Arafater Rahman and M.A. Wadud	Parametric Study on Cellular Negative Stiffness Honeycomb Meta-Structures: Effect on the Energy Absorption Performance
	7634	9:30 AM	Afia Rasool, Guru Ratan Satsangee, Leander Arickswamy, Muhammad Mohsin Ashfaq and Rafiq	Winter-Safe Slip Prevention Rim for E-scooter: Design to Production Lifecycle Analysis
	9619	9:45 AM	Geremew Geidare Kailo, Igor Gáspár, Kenbon Beyene Abdisa, Ivana Pajčin, Vanja Vlajkov, Aleksandar Jokic,	Food safety-based evaluation of 3D printed objects
	5714	10:00 AM	Camila Barros, Arnaud Notebaert, Sebastião S.C. Junior and Anthonin Demarbaix	Infrared thermography (IRT) applications for non-destructive inspection of composite parts obtained by continuous fiber additive manufacturing:

Process Track (Friday, June 28)					
	Paper ID	Time	Authors	Title	
Session: Advanced Process Systems Session ID: PD201 Time: 8:30 AM to 10:30 AM	7383	8:30 AM	Pali Roshia, Feysal Ali, Mohammad Yusuf and Hussameldin Ibrahim	Kinetic-based Simulation of Ethanol Reforming and Carbon Capture for Blue Hydrogen Production	
	128	8:45 AM	Mahafoos Bathali, Tushar Sharma, Mohammed Kamil, Mohammad Yusuf and Hussameldin Ibrahim	Synergistic Effects of Silica Nanofluid on Wettability and Interfacial Tension in Sandstone Pores	
	691	9:00 AM	Toluwanimi Adetunji, Mohammad Yusuf, Pali Roshia and Hussameldin Ibrahim	Hydrothermal Liquefaction of Pulp and Paper Mill Residues for Biocrude Production	
	3426	9:15 AM	Muhammad Sajid Khan and Chen Chen	Exergo-economic analysis of solar-driven ammonia production system towards sustainable energy carrier	
	7689	9:30 AM	Mourad El Helou, Yaser Khojasteh-Salkuyeh and Melanie Hazlett	Development and analysis of two innovative physical and chemical CO2 absorption systems to achieve a more effective CCU process	

Online Presentation Schedule

Industrial Track (Saturday, June 29)

	Paper ID	Time	Authors	Title
Session: Sustainable and Resilient Infrastructure Session ID: ID301 Time: 8:30 AM to 10:00 AM	517	8:30 AM	Punit Gupta and Gavin McArdle	Spatial data quality in GIS data: a review
	9107	8:45 AM	Mehrnoush Bahramimehr and Golam Kabir	Weather-related Risk Assessment of Canadian Transcontinental Freight Railway: Case Study of Saskatchewan
	1847	9:00 AM	Saroj Raut, Dr. Niamat Ullah Ibne Hossain and Dr. Alexandr M. Sokolov	Infrastructure Resilience: Bibliometric and Network Analysis
	3365	9:15 AM	Ayanda Boya, Opeoluwa Akinradewo, Professor Clinton Aigbavboa and Sharfuddin Khan	Barriers to Collaborative Robotics Implementation in the Construction Industry
	2602	9:30 AM	Opeoluwa Akinradewo, Clinton Aigbavboa, Chijioke Emere, David Ebiloma, Olushola Akinshipe and	Barriers to the Adoption of Unmanned Aerial Vehicles for Construction Projects in South Africa
	9002	9:45 AM	Babatunde Fatai Ogunbayo and Clinton Ohis Aigbavboa	ASSESSING THE IMPACTS OF USING BIM AMONG PROFESSIONALS IN THE CONSTRUCTION INDUSTRY

	Paper ID	Time	Authors	Title
Session: Sustainable Development and Circular Economy Session ID: ID302 Time: 8:30 AM to 10:00 AM	1446	8:30 AM	Ana Sofia Andrade-Arias, Golam Kabir, Armando Elizondo-Noriega and Seyedmehdi	Public Acceptability of Solar Energy Implementation in Mexico
	2113	8:45 AM	Anas Melethil, Nabil Ahmed Khan, Mohd Azeem, Golam Kabir and Irfan Ali	Optimization and Forecasting Modelling to Analyze India's Pursuit of the Sustainable Development Goals in Agenda 2030
	4728	9:00 AM	Angel Francisco Galaviz Román, Seyedmehdi Mirmohammadsadeghi and Golam Kabir	CO2 Emissions Projections of the North American Cement Industry
	9920	9:15 AM	Sobia Jamil, Noor-Ul-Ain Hanif and Sharfuddin Khan	Sustainability within SMEs: A Study on Performance Impact in the Pakistani Context
	5198	9:30 AM	Bertha Maya Sopha and Sholeh Ma'Mun	Characteristics of Adopters and Non-Adopters of Rooftop Photovoltaics in Indonesian Households: A Meta Analysis
	5562	9:45 AM	Dennis Kreutzer, Esther Borowski and Ingrid Isenhardt	Fuzzy Logic Approach to Circular Economy Maturity Assessment of manufacturing organizations

	Paper ID	Time	Authors	Title
Session: Sustainable and Resilient Infrastructure Session ID: ID3O3 Time: 10:30 AM to 12:00 PM	639	8:30 AM	Wanda Buhle Mpingana, Professor Clinton Aigbavboa, Dr Opeoluwa Akinradewo and Dr	Evaluating the Drivers of Cloud Data Management Usage in the South African Construction Industry
	1065	8:45 AM	Ntwanano Mueti, Babatunde Ogunbayo and Clinton Aigbavboa	A bibliometric analysis and systematic review in productivity management-related studies
	5092	9:00 AM	Osamudiamen Kenneth Otasowie, Clinton Aigbavboa, Ayodeji Oke, Peter Adekunle and	Diverse Approaches to Construction and Demolition Waste Reuse: A Case of South Africa
	5829	9:15 AM	Oluwaseun Raimi, Babatunde Ogunbayo and Clinton Aigbavboa	A Comprehensive Review of Benefits of Virtual Reality Application for Facilities Management in the Construction Industry
	7037	9:30 AM	Bukola Adejoke Adewale, Babatunde Fatai Ogunbayo, Clinton Ohis Aigbavboa and Vincent	Evaluation of green design strategies adopted by architects for public buildings in Nigeria
	8877	9:45 AM	Osamudiamen Kenneth Otasowie, Clinton Aigbavboa, Ayodeji Oke, Peter Adekunle and	Constraints to Clients' Acceptance of Recycled Construction Materials in Developing Nations: Professionals' Perspective

	Paper ID	Time	Authors	Title
Session: Soft Computing Techniques Session ID: ID3O4 Time: 10:30 AM to 12:00 PM	7849	8:30 AM	Amin Khorram, Huang Lin and Wei Peng	A Novel SFDN+DNN Approach for Efficient Hand Movement Recognition using Surface Electromyography Signals
	6644	8:45 AM	Syed Imran Zaman, Shafaq Tariq Jadoon and Sharfuddin Khan	Green Algorithms: The Impact of Artificial Intelligence on Environmental Sustainability
	8404	9:00 AM	Morteza Nakhaeepishkesh and Wei Peng	A Self-Organizing Map Artificial Neural Network to Improve the k-Means Algorithm on the Classification of Different Cancer
	5818	9:15 AM	Fazla Rabbi, Saroj Raut, Dr. Niamat Ullah Ibne Hossain and Dr. Alexandr M. Sokolov	Cardiovascular Risk Prediction through Stacking Classifier
	4144	9:30 AM	Reza Shahin, Martin Beaulieu, Valérie Bélanger and Martin Cousineau	Optimizing strategic Personal Protective Equipment stockpiling: An assessment using Morris sensitivity analysis
	6725	9:45 AM	Alok Madamanchi, Fazla Rabbi, Dr. Alexandr M. Sokolov and Dr. Niamat Ullah Ibne Hossain	A Machine Learning-Based Corrosion Level Prediction in the Oil and Gas Industry

Process Track (Saturday, June 29)				
	Paper ID	Time	Authors	Title
Session: Advanced Process Systems Session ID: PD3O1 Time: 8:30 AM to 10:00 AM	1300	8:30 AM	Gadis Ramadhani, Syahrir Ridha, Astra Pramana, Dara Maharsi, Mohammad Yusuf and Hussameldin	The Effect of Fly Ash Nanoparticles on Foam Stability for CO2 Flooding
	2128	8:45 AM	Falak Abbas, Moina Athar, Mohammad Yusuf and Hussameldin Ibrahim	Augmenting Oil drilling with Advanced Bio-Lubricant Formulations and Synergies
	1465	9:00 AM	Huma Khan, Parvez Khan, Amal Ebhargawy, Mohammad Yusuf and Hussameldin Ibrahim	Shaping The Greener Future: A Bibliometric Analysis of Carbon Capture, Storage and Decarbonization
	2823	9:15 AM	Umar Sabo, Syahrir Ridha, Mohammad Yusuf, Iskandar Dzulkarnain and Hussameldin Ibrahim	Significance of Graphene Oxide Incorporated Drilling Fluid: An Overview of Cost, Safety, and Environmental Effects
	2822	9:30 AM	Rajhans Meena, Abdul Wahab Hashmi, Shadab Ahmad, Faiz Iqbal, Anoj Meena, Mohammad Yusuf	Influence of Marble Dust on Mechanical and Tribological Properties of Injection Molded Polypropylene Composites

	Paper ID	Time	Authors	Title
Session: Advanced Process Systems Session ID: PD3O2 Time: 10:30 AM to 12:00 PM	6685	8:30 AM	Varun Sharma, Prem Kumar, Mohd Yusu, Bilal Ahmed, Mohammad Yusuf and Hussameldin Ibrahim	Green Bimetallic Ag/Cu Nanocomposite for Treating Contaminated Wastewater Using Thermionic Technique
	8766	8:45 AM	Abdul Wahab Hashmi, Shadab Ahmad, Faiz Iqbal, Mohammad Yusuf and Hussameldin Ibrahim	Experimental Investigation on Abrasive Flow Finishing of FDM Printed Polymeric Y shaped nozzle
	8816	9:00 AM	Yassine Ezaier, Ahmed Hader, Mohammad Yusuf, Khalid Ansari and Hussameldin Ibrahim	Resolving Membrane Fouling in Water Purification: A Progressive Methodology
	9438	9:15 AM	Ashish Soni, Pankaj Das, Sonu Gupta, Mohammad Alam, Mohammad Yusuf and Hussameldin Ibrahim	Development of Filler Reinforced Sustainable Polymeric Composites for the Implementation of Green Technology in Building Construction
	9869	9:30 AM	Sonia Dangi, Sumit Chaudhary, Shadab Ahmad, Yebing Tian, R.C. Singh, Mohammad Yusuf and	Experimental study on the impact of variable concentration of Graphite nanoparticles on the tribological behaviour of 15W40 lubricating oil