International Conference on Optimization and Data Science in Industrial Engineering (ODSIE 2023)

Nov. 16-17, 2023, Istanbul, Virtual Event

https://odsie2023.refconf.com/

- ***The conference programs are scheduled based on Istanbul Time Zone (UTC+3).***

First day: Thursday 16.11.2023

Location/time	9-10:30	10:45-12:15	12:15-13:30	13:30-15:00	15:15-16:45	17:00-18:30
Room 1	**Opening ceremony** Welcome Speech ***Dr. Erfan Babaee Tirkolaee*** Conference Report ***Prof. A. Mirzazadeh*** Keynote speech ***Prof. Chefi Triki***	10:45-11:25 Workshop ***Dr. Alireza Goli*** 11:25-12:15 Workshop ***Dr. Sameera Fernandes***	Break time	Workshop ***Dr. Maria Anjum***	Workshop (Cont.) ***Dr. Maria Anjum***	Closed
Room 2	Closed	Paper Session **Dr. Mustapha Oudani**	Break time	Paper Session **Dr. Hamidreza Irani**	Paper Session **Dr. Vijay Kumar Gahlawat**	Paper Session **Prof. Nazanin Pilevari**
Room 3	Closed	Paper Session **Dr. Hadi Shirouyehzad**	Break time	Paper Session **Dr. Dinh Tran Ngoc Huy**	Paper Session **Dr. S. A. Edalatpanah**	Paper Session **Dr. Sita Ram Sharma**
Room 4	Closed	Paper Session **Dr. Yavuz Can**	Break time	Paper Session **Dr. Zohreh Molamohamdi**	Paper Session **Dr. Emre Çakmak**	Paper Session **Dr. Dinh Tran Ngoc Huy**

Second day: Friday 17.11.2023

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Location/time	9:00-10:30	10:45-12:15	12:15-13:30	13:30-15:00	15:15-16:45
Room 1	PhD. Thesis Competition ***Dr. Saliha Karadayı Üsta &*** ***Dr. Emre Çakmak***	PhD. Thesis Competition (Cont.) ***Dr. Saliha Karadayı Üsta &*** ***Dr. Emre Çakmak***	Break time	13:30-14:15 Workshop ***Prof. Sadia Samr Ali*** 14:15-15:00 Workshop ***Dr. Rudrarup Gupta***	**Closing Session** Speech ***Dr. Nadi Serhan Aydın*** Keynote speech ***Prof. Safa Bhar Layeb***
Room 2	Paper Session **Dr. Aybike Ozyuksel**	Paper Session **Mr. Nguyễn Thành Luân**	Break time	Paper Session **Dr. Marwa Hasni**	Closed
Room 3	Paper Session **Prof. Serap Ergun**	Paper Session **Dr. Hela Limam**	Break time	Paper Session **Dr. Simerjeet Singh Bawa**	Closed
Room 4	Paper Session **Dr. Meenakshi Kaushik**	Paper Session **Dr. Erfan Babaee Tirkolaee**	Break time	Paper Session **Dr. Sanjib Biswas**	Closed

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Date: **Thursday, 16.11.2023** Time: **9:00-10:30**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Opening Ceremony

#	Title	Time	Duration (minutes)
1	Opening Presentation	9:00-9:05	5
2	Dr. Erfan Babaee Tirkolaee- Speech (Conference Chair) Welcome Speech	9:05-9:15	10
3	Clip: Istinye Introduction	9:15-9:20	5
4	Prof. Mirzazadeh- Speech (Conference Chair) Conference Report	9:20-9:40	20
5	Clip: ODSIE 2023 Achievements	9:40-9:45	5
6	Prof. Chefi Triki- Keynote Speech (University of Kent, UK) Mitigation Strategies of the Occasional Drivers Absenteeism in the Last Mile Delivery	9:45-10:25	40
7	Clip: IJSOM	10:25-10:30	5

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Date: **Thursday, 16.11.2023** Time: **9:45-10:25**	**Opening Keynote Speech**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Title:

"Mitigation Strategies of the Occasional Drivers Absenteeism in the Last Mile Delivery"

Keynote Speaker:
Prof. Chefi Triki
University of Kent, UK

Abstract:

Companies can use occasional drivers to increase efficiency on last-mile deliveries. However, as occasional drivers are freelancers without contracts, they can decide at short notice whether they perform delivery requests. If they do not perform their tasks, this is known as driver absenteeism, which obviously disrupts the operations of companies. This talk tackles this problem by developing an auction-based system, including a mitigation strategy to hedge against the absenteeism of occasional drivers. According to this strategy, a driver can bid not only for serving bundles but also to act as a reserved driver. Reserved drivers receive a fee to ensure their presence but are not guaranteed to be assigned to a specific bundle. The problem is modeled as a two-stage stochastic problem with recourse activation. To solve this problem, we develop a self-learning metaheuristic. Through an extensive computational study, we show the clear dominance of the newly proposed approach in terms of solution quality, run times, and customers' perceived quality of service compared against three different deterministic approximations. The Value of the Stochastic Solution, a well-known stochastic parameter is also analyzed. Finally, the identikit of the perfect reserved driver, based on data observed in optimal solutions, is discussed.

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Date: **Thursday, 16.11.2023** Time: **10:45-11:25**	**Workshop**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Title:

"From Sustainability to Circularity: Transforming Supply Chains for an Eco-centric Economy"

Speakers:
Dr. Alireza Goli
Department of Industrial Engineering, University of Isfahan, Isfahan, Iran

Abstract:
As global sustainability challenges continue to mount, the need for a transformative approach in supply chain management becomes increasingly evident. This presentation focuses on the shift from a traditional sustainability framework to a more comprehensive circular economy perspective. The abstract highlights the key challenges faced by sustainability practices and emphasizes the advantages of embracing circularity in supply chains. By adopting an eco-centric economy approach, businesses can create closed-loop systems that minimize waste, promote resource efficiency, and foster economic growth. This abstract sets the stage for a thought-provoking discussion on the benefits and potential of circular economy in reshaping supply chains for a sustainable and regenerative future.

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Date**: Thursday, 16.11.2023** Time:**11:15-12:15**	**Workshop**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Title:

"Leading the Charge: Optimizing Sustainable Finance Strategies through Data-Driven Decision-Making in Industrial Engineering"

Speaker:
Dr. Sameera Fernandes
Director- Corporate Affairs & Sustainability- Century Financial, UAE and Research Scholar- Garden City University

Abstract:

In today's rapidly evolving industrial landscape, the integration of sustainable finance and global leadership competencies has become imperative. The workshop "Leading the Charge: Optimizing Sustainable Finance Strategies through Data-Driven Decision Making in Industrial Engineering" aims to address this critical intersection. This interactive session will delve into the latest methodologies and tools in optimization and data science that can be employed to enhance sustainable finance initiatives. Participants will gain insights into how data analytics can inform risk assessment, capital allocation, and performance metrics, thereby driving sustainability goals in alignment with corporate strategy.

The workshop will feature case studies from industry leaders who have successfully implemented data-driven approaches in their sustainable finance strategies. It will also provide hands-on exercises that allow participants to apply optimization techniques to real-world finance challenges. By the end of this workshop, attendees will be equipped with the knowledge and skills to lead sustainable finance initiatives more effectively, contributing to both organizational success and global sustainability.

This workshop is designed for industrial engineers, finance professionals, data scientists, and leaders who are committed to driving change through informed decision-making. Join us to explore how you can lead the charge in optimizing sustainable finance strategies for a sustainable future.

Date: **Thursday, 16.11.2023** Time:**10:45-12:15**	Session Code: **OP01**	**Room 2, link: https://zoom.us/j/99376290444** **Hosts: Kutay Alada & Anderson Chukwudi Oki**

Title:
"Optimization Problems Related to Logistics, Transportation and Manufacturing Systems"

Panel Chair:
Dr. Mustapha Oudani, International University of Rabat, Morocco

Panel Members:
Dr. Amine Belhadi, International University of Rabat, Morocco
Dr. Karim Zkik, ESAIP, France

Paper Code	Authors	Paper Title
1089-ODSIE2023	halil ibrahim ayaz; bilal ervural	A Simulation-Based Approach for Optimal Shared E-Scooter Assignment to Riders
1115-ODSIE2023	Sana Bouajaja; Mariem Belghith Ep Kallel; Abdelkarim elloumi	Supplier Evaluation and Selection Framework: Case Study in Pharmaceutical Industry
1190-ODSIE2023	Antonio Iglesias; Tatiana Tchemisova	NLP-Based Solutions for Collision Avoidance in Aircraft Traffic
1088-ODSIE2023	Mohammad Munir Hossain	Profit and Cost Analyzing Mathematical Model: A Strategic Tool for Garment Manufacturers
1253-ODSIE2023	Betül Çoban	Cut Order Planning Under Cost, Time and Waste Constraints in Furniture Industry
1286-ODSIE2023	Mohammad Khalilzadeh; Hamid Nemati	Multi-objective optimization of aggregated production planning using the Augmented Epsilon Constraint method
1200-ODSIE2023	Ecem Tümsekçali; Alev Taşkin	A Review on Recent Developments in Optimization Studies in Public Transport Systems Integrated with Electric Buses

Date: **Thursday, 16.11.2023** Time:**10:45-12:15**	Session Code: **OP02**	**Room 3**, link: **https://zoom.us/j/99963685990** **Hosts: Cansu Tayar & Gizem Karatepe**
Title: ***"Operations Research in Optimization"***		
Panel Chairs: **Dr. Hadi Shirouyehzad,** Islamic Azad University, Najafabad, Iran **Dr. Mazdak Khodadadi,** University of Science and Culture, Tehran, Iran		

Paper Code	Authors	Paper Title
1068-ODSIE2023	Rituparna Mondal; Ranjan Kumar Jana	A supplier-Stackelberg game Model under Two Levels of Trade Credit considering Default-risk.
1082-ODSIE2023	Tomoya Chisaka; Soitiro Yokoyama; Tomohisa Yamashita; Hidenori Kawamura	Evaluation of Request Sequencing Strategies for Shift Rescheduling in Response to Absenteeism Using Probabilistic Simulation Approach
1141-ODSIE2023	Harinanan Tunga Tunga; Md Hasanuj Jaman Hossain; Samarjit Kar; Debasis Giri	Multi-objective Optimization for Order Assignment in Food Cart Evaluation System
1231-ODSIE2023	Rokaya Lassoued	A Tailored Approach to Berth Allocation in Multipurpose Ports: Prioritizing Cargo Types through a Mathematical Model
1077-ODSIE2023	Berkay Topçu; Mukaddes Altuntaş; Zeynep Kezban Turgut; Ömer Kurt; Dilruba Topçuoğlu; Okan Örsan Özener	Exact Solution Methodologies for Heterogenous Vehicle Routing Problem with Non-traditional Cost Structure
1300-ODSIE2023	Elif Akdaş; Tamer Eren	Adalar İlçesine Arama Kurtarma Ekiplerinin Atanması: Olasi Marmara Depremi

Date: **Thursday, 16.11.2023** Time:**10:45-12:15**	Session Code: **OP03**	**Room 4, link: https://zoom.us/j/94571022559** **Host: Muhammet Ali Şencan**
Title: **"Artificial intelligence and expert systems"**		
Panel Chair: **Dr. Yavuz Can**, Halic University, Turkey		

Paper Code	Authors	Paper Title
1021-ODSIE2023	Bogdan Petru Vrinceanu; Florentin Serban	Trading algobot strategies
1100-ODSIE2023	Abdelkader Adla; Bakhta Nachet	Hybrid Reasoning-Based Intelligent Decision Support System
1173-ODSIE2023	Bui Hai Phong	Classification of Plant Leaf Diseases Using Deep Neural Networks in Colored and Grayscale Images
1196-ODSIE2023	Syrine Ben Romdhane; Fahmi Ben Rejab; Khadija Mnasri	Prediction of Ethereum Prices Based on Blockchain Information in an Industrial Finance System Using Machine Learning Techniques
1266-ODSIE2023	Abdullah Demiray	Exploring Robotic Arm Dynamics in Mobile Platforms for Space Industrial Applications
1205-ODSIE2023	Carl M Rebman; Oluwaseyi Ijogun; Hayden Wimmer	Email Classification of Text Data Using Machine Learning and Natural Language Processing Technique

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Date**: Thursday, 16.11.2023** Time:**13:30-15:00, 15:15-16:45**	**Workshop**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Title:

"A Multidisciplinary Landscape of Data Sciences"

Speaker:
Dr. Maria Anjum
Department of Computer Science, Lahore College for Women University, Lahore, Pakistan
Dr. Yasir Niaz Khan, FAST-NU, Lahore, Pakistan
Prof. Dr. Mian M. Awais, LUMS, Lahore, Pakistan
Dr. Malik Jahan Khan, LUMS, Lahore, Pakistan
Dr. Wajahat M. Qazi, COMSATS Institute of Information Technology, Lahore, Pakistan
Dr. Hajra Waheed, FAST-NUCES

Abstract:
A multidisciplinary workshop to share contributions made by researchers and industry personals in the field of data sciences. The invited talks will be delivered to share experiences and lessons learned from real world problems. The workshop will provide an opportunity to investigate the broad landscape of data sciences and get involved into discussion about data science future roadmap, challenges in dealing real world situations and opportunities that can facilitate industry and academia.

Date: **Thursday, 16.11.2023** Time:**13:30-15:00**	Session Code: **OP04**	**Room 2, link: https://zoom.us/j/99376290444** **Hosts: Kutay Alada & Anderson Chukwudi Oki**
Title: ***"Blockchain and Sustainable Business"***		
Panel Chairs: **Dr. Hamidreza Irani**, University of Tehran, Iran **Dr. Hamed Nozari**, Islamic Azad University, Dubai Branch, UAE		

Paper Code	Authors	Paper Title
1170-ODSIE2023	Hamed Nozari; Hamid Reza Irani; Maryam Rahmaty	Investigating Critical Success Factors in Marketing Systems Based on the Internet of Things
1189-ODSIE2023	Saba Noori ALhamdany; Mohammed Noori Alhamdany; Saad Noori Alhamdany	The Mediating Role of artificial intelligence strategy on strategic thinking skills and digital leadership at Baghdad's General Company for Electrical and Electronic Industries
1250-ODSIE2023	Alexis Miguel Carbonel Candela; Alex Pacheco	Sustainable Improvement in Medical Appointment Assignment and Patient Care: An Agile Development Approach
1169-ODSIE2023	Houda Dahbi; Amine Belhadi; Abla Chaouni Benabdellah	Blockchain Adoption in African agriculture: A Multi-Criteria Decision Analysis
1158-ODSIE2023	Sumalatha M R; Aditya Kumar; Nethra Janardhanan; Abhinash S	Blockchain Based Privacy Preservation and Misbehavior Analysis in Financial Supply Chain
1234-ODSIE2023	Amir Hossein Raoof; Azin Yazdi; Farinaz Tanoorian; Hoda Mohsenifard	Internal brand management and intention to stay: the roles of brand commitment and job satisfaction in retail industry

Date: **Thursday, 16.11.2023** Time:**13:30-15:00**	Session Code: **OP05**	**Room 3, link: https://zoom.us/j/99963685990** **Hosts: Cansu Tayar & Gizem Karatepe**

Title:

"From data to knowledge- Analysis for strategies and challenges"

Panel Chairs:
Dr. Dinh Tran Ngoc Huy, Researcher, International University of Japan, Niigata Japan - Banking University HCM city, Vietnam
Dr. Sylwia Gwoździewicz, Poland
Dr. Le Huong Hoa, Faculty of Foreign Languages and Informatics, The People's Police University, Vietnam
Dr. Pham Minh Dat, Thuongmai University Hanoi Vietnam
Dr. Pham Anh Dung, Lecturer, Faculty of Business and Management, Apollos University, Motana, US
Vo Thi Diem My, School of Foreign Languages, Can Tho University, Vietnam

Paper Code	Authors	Paper Title
1074-ODSIE2023	Sana Bouajaja; Mariem Belghith Ep Kallel; Abdelkarim elloumi	Developing a Sales Dashboards with Power BI – a Case Study in a pharmaceutical company
1143-ODSIE2023	sharath kumar Jagannathan; Gulhan Bizel; Vijay Kumar Reddy Voddi	Analyzing the USA Housing Complaints to score the County Problems
1160-ODSIE2023	Constantin Cornel Tuduriu; Oana Vasilica Grosu; Laurentiu Dan Milici; Eugen Iavorschi	Disturbance Correction in Supply Chains Using a Mathematical Model of the Classical Mechanical Spring-Damper System
1265-ODSIE2023	Irem Bayraktar; Ercument Turkoglu	LEO Satellites: Enhancing Connectivity and Data Collection Across Industries
1283-ODSIE2023	Srilatha Tokala; Murali Krishna Enduri; T. Jaya Lakshmi	Empowering NMF and Louvain Community Detection with High-Performance Computing
1067-ODSIE2023	Souradeep Koley; Vincent Tsz Fai Chow; Mukesh Kumar Barua	Electric Vehicle Adoption A Consumer Perspective from Social Media

Date**: Thursday, 16.11.2023** Time:**13:30-15:00**	Session Code: **OP06**	**Room 4, link: https://zoom.us/j/94571022559** **Host: Muhammet Ali Şencan**
Title: ***"Experiment and Optimization in Research"***		
Panel Chair: **Dr. Zohreh Molamohamadi**, Kharazmi University, Iran		

Paper Code	Authors	Paper Title
1014-ODSIE2023	Ayyappan S; Sivakumar M	A Comparative Approach to Multi-response Optimization for AWJM of Monel 400 Alloys using Hybrid Metaheuristic-MCDM Techniques
1049-ODSIE2023	Ahmed Radhi Taha	Performance of Geopolymer Concrete Against Acid Attacks Using Taguchi Method
1146-ODSIE2023	Suhail Mousa Odeh; Murad Alrajab; Jannat Natsheh; Isra' Zahran; Khader Ballout	Leadow: An Empowering Indoor Navigation System for Individuals with Visual Impairments Using Bluetooth Beacons and Audio Guidance
1157-ODSIE2023	Sarita Gahlawat; Rajkumar Verma; Geeta Sachdev; Shalini Arora	An Extended MEREC-MABAC Approach Based on New Divergence Measure Using Constrained Pythagorean Fuzzy Information Framework
1191-ODSIE2023	Rachmawati Wangsaputra; Andi Cakravastia Raja; Hennie Husniah; Bermawi Priyatna Iskandar	Comparison of Incremental Learning in ART-2 NN, SFAM NN and BPNN Case Study: Intelligent Condition based Maintenance
1280-ODSIE2023	Karam Youssef Maalawi; Mohamed Fawzy Nasr	Balanced Multi-Objective Optimization of Spinning Thin-Walled Beams

Date: **Thursday, 16.11.2023** Time:**15:15-16:45**	Session Code: **OP07**	**Room 2, link: https://zoom.us/j/99376290444** **Hosts: Kutay Alada & Anderson Chukwudi Oki**
Title: ***"Industry 4.0, IoT and Smart Manufacturing"***		
Panel Chairs: **Dr. Vijay Kumar Gahlawat**, NIFTEM Kundli, India **Dr. Rahul S Mor**, University of Northampton, UK **Dr. Rakesh Kumar**, NUST, Windhoek, Namibia		

Paper Code	Authors	Paper Title
1172-ODSIE2023	Souad Lahmine, Fatima Bennouna	Heading in the direction of enhancing our grasp of Quality 4.0.
1195-ODSIE2023	Huu Quoc Dang; Ha Viet Le; Nhung Thi Tran	Integrating Digitalized Data and Optimization Method for Automated Production Planning in Sewing Lines
1220-ODSIE2023	Recep Ali Geze; Ayhan Akbaş	Detection and Classification of Fabric Defects Using Deep Learning
1251-ODSIE2023	Lorena Soto Zenteno; Alex Pacheco	Web application to control grades of I.E.P students. N°617-20189, Cañete, 2023
1127-ODSIE2023	Roman Mysiuk; Iryna Mysiuk; Volodymyr Yuzevych; Roman Shuvar; Svyatoslav Tsyuh; Nataliia Pavlenchyk	Predictive Analysis of Macro Defects in Engineering Structures Using Machine Learning Technologies

Date: **Thursday, 16.11.2023** Time:**15:15-16:45**	Session Code: **OP08**	**Room 3, link: https://zoom.us/j/99963685990** **Hosts: Cansu Tayar & Gizem Karatepe**

Title:
"Computational Thinking and Artificial Intelligence in Industrial Engineering"

Panel Chair:
Dr. S. A. Edalatpanah, Ayandegan Institute of Higher Education, Tonekabon, Iran

Paper Code	Authors	Paper Title
1096-ODSIE2023	Ahlam Boutahar	Artificial Intelligence in Airport Services: Opportunities and Risk for Future
1099-ODSIE2023	Abdelkader Ould Mahraz; Bakhta Nachet	On Using Bio-Inspired Optimization Methods to Support Group Decision Making
1132-ODSIE2023	shital chiddarwar; Richa Mohta; Vaishnavi Desai; Tanvi Khurana; Rahul M R	Enhancing Autonomous Industrial Navigation: Deep Reinforcement Learning for Obstacle Avoidance in Challenging Environments
1258-ODSIE2023	Amol M Dalavi; Alyssa Gomes	Weight Reduction of a Speed Reducer using Modified Particle Swarm Optimization and Shuffled Frog Leaping Algorithm
1272-ODSIE2023	Dilara Muhacir; Muhammed İdris Aktaş; Eren Özceylan	Statistical Comparison of Docking Station Performance of Autonomous Mobile Robots: A Case of Textile Company's Intra-logistics
1225-ODSIE2023	Seyed Emadedin Hashemi; Maryam Bakhshi	Development of a Multi-Skill Job Rotation Model by Minimizing the Workload Variance

Date: **Thursday, 16.11.2023** Time:**15:15-16:45**	Session Code: **OP09**	**Room 4, link: https://zoom.us/j/94571022559** **Host: Muhammet Ali Şencan**
Title: ***"Inventory planning, Production and scheduling"***		
Panel Chair: **Dr. Emre Çakmak,** Istinye University, Turkey		

Paper Code	Authors	Paper Title
1057-ODSIE2023	İlkay Saraçoğlu	A Chance Constrainted Programming Approach for Stochastic Inventory Management in a Large Warehouse
1073-ODSIE2023	Özge Albayrak Ünal; Burak Erkayman	Multi-Criteria Inventory Classification with Machine Learning Algorithms in the Manufacturing Industry
1078-ODSIE2023	Ahmed Attia	Vendor-Buyer Collaboration in Supply Chain Management with Quality Inspection on the Buyer's Side
1215-ODSIE2023	Sena Keskin; Alev Taşkin	Inventory Classification with Artificial Intelligence: Conceptual Framework
1284-ODSIE2023	Hemant Kumar; Dharamender Singh	A Production Inventory Model of Constant Production and Linear Demand Rate
1249-ODSIE2023	Eduardo Castillon Chumpitaz; Alex Pacheco	Impact of an Inventory Control Platform on the Fulfillment of the Sustainable Development Goals in Education

Date: **Thursday, 16.11.2023** Time:**17:00-18:30**	Session Code: **OP10**	**Room 2, link: https://zoom.us/j/99376290444** **Hosts: Kutay Alada & Anderson Chukwudi Oki**
Title: ***"Decision support systems"***		
Panel Chair: **Prof. Nazanin Pilevari**, Islamic Azad University, West Tehran Branch, Iran		

Paper Code	Authors	Paper Title
1007-ODSIE2023	Ozgu Turgut	Robust Planning of Irrigation Considering Water Consumption and Revenue
1075-ODSIE2023	Juan Castellar-Buelvas; Marlene Duran-Lengua; Alexander Troncoso-Palacio	In-Vitro Evaluation of the Pharmacological and Therapeutic Equivalence of Some Acetaminophen Trademarks
1149-ODSIE2023	Rajkumar Verma; Eduardo Álvarez-Miranda; Jaisri Jagannadham	A novel CRITIC-SWARA-MARCOS Approach in a 2-Dimensional Intuitionistic Fuzzy Framework with Application to Medical Waste Treatment Technology Selection
1229-ODSIE2023	Dan Luo; Simon Thevenin; Alexandre Dolgui	Stochastic Optimization for Multi-Echelons Multi-Items Capacitated Lot-Sizing Problem under Uncertain Demand and Capacity Disruption
1252-ODSIE2023	Şenol Pişkin; Sare Tokuş	Non-Invasive Detection of Iron Deficiency: The Potential of PPG (Photoplethysmography) Sensor
1254-ODSIE2023	Nadi Serhan Aydin	A Vulnerability-Based Stochastic Optimization Framework for pre-Disaster Optimal Allocation of Earthquake Search and Rescue Units

Date**: Thursday, 16.11.2023** Time:**17:00-18:30**	Session Code: **OP11**	**Room 3, link: https://zoom.us/j/99963685990** **Hosts: Cansu Tayar & Gizem Karatepe**
Title: ***"Other fields of study related to Optimization and Data Science"***		
Panel Chair: **Dr. Sita Ram Sharma**, Chitkara University, India		

Paper Code	Authors	Paper Title
1006-ODSIE2023	Sri Yogi Kottala; Atul Kumar Sahu	An Appraisal of Social Sustainable Supply Chain in Manufacturing Sector: A Statistical Validation using Best Worst Method
1219-ODSIE2023	Shashwat Kumar	SecureCloudX: An Innovative Approach to Enhance Data Security Through Advanced File Encryption
1225-ODSIE2023	Seyed Emadedin Hashemi; Maryam Bakhshi	Development of a Multi-Skill Job Rotation Model by Minimizing the Workload Variance
1232-ODSIE2023	Fatma Ben Amor; Manel Kammoun; Taicir Loukil	A Survey of the Integration of the Coverage Concept in Routing Problems
1072-ODSIE2023	Rand Hummam	Strengthening beams with ECC Concrete Patches

Date**: Thursday, 16.11.2023** Time:**17:00-18:30**	Session Code: **OP05**	**Room 4, link: https://zoom.us/j/94571022559** **Hosts: Muhammet Ali Şencan**

Title:

"From data to knowledge- Analysis for strategies and challenges"

Panel Chairs:
Dr. Dinh Tran Ngoc Huy, Researcher, International University of Japan, Niigata Japan - Banking University HCM city, Vietnam
Dr. Sylwia Gwoździewicz, Poland
Dr. Le Huong Hoa, Faculty of Foreign Languages and Informatics, The People's Police University, Vietnam
Dr. Pham Minh Dat, Thuongmai University Hanoi Vietnam
Dr. Pham Anh Dung, Lecturer, Faculty of Business and Management, Apollos University, Motana, US
Vo Thi Diem My, School of Foreign Languages, Can Tho University, Vietnam

Paper Code	Authors	Paper Title
1308-ODSIE2023	Dinh Tran Ngoc Huy; Pham Anh Dung; Le Thi Han; Le Ngoc Nuong; Dinh Tran Ngoc Hien	Analysis and Recommendations for Developing Industrial Clusters- Case in Vietnam
1309-ODSIE2023	Dinh Tran Ngoc Huy; Pham Anh Dung; Le Thi Han; Le Ngoc Nuong; Sylwia Gwoździewicz	Analysis of Factors Affecting Vietnam Real Estate Growth in Recent Years
1310-ODSIE2023	Dinh Tran Ngoc Huy; Pham Anh Dung; Le Thi Han; Dinh Tran Ngoc Hien; Pham hung Nhan	Analysis of Consumer Protection and Environment Protection Law in Vietnam and Case in Developing Industrial Zones

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Date: **Friday, 17.11.2023** Time: **9:00-10:30, 10:45-12:15**	**PhD. Thesis Competition**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Title:

"PhD. Thesis Competition"

Charis:
Dr. Saliha Karadayı Üsta, Istinye University, Turkey
Dr. Emre Çakmak, Istinye University, Turkey

Abstract:
In order to encourage young scholars as future professionals to do research on Optimization and Data Science and create vitality and research dynamics, the best doctoral thesis in Industrial Engineering and other related fields will be selected and introduced during the 1st International Conference on Optimization and Data Science in Industrial Engineering. Since optimization and data science are naturally interdisciplinary, all graduates of Industrial Engineering, Management, Economics, Computer Engineering, Manufacturing and Production Engineering, Financial Sciences, etc. can participate in this competition. In this regard, it will be helpful to consider the conference topics listed on the front page of the website. Participating in this competition is also not limited and students from all countries/universities can be considered as potential candidates.

Date: **Friday, 17.11.2023** Time: **9:00-10:30**	Session Code: **OP12**	**Room 2, link: https://zoom.us/j/99376290444** **Hosts: Anderson Chukwudi Oki & Kutay Alada**
Title: ***"Machine Learning Solutions for Engineering Problems"***		
Panel Chair: **Dr. Aybike Özyüksel Çiftçioğlu,** Manisa Celal Bayar University, Turkey		
Panel Members: **Dr. Soheyl Khalilpourazari**, Department of Mechanical, Industrial and Aerospace Engineering, Concordia University, Montreal, Canada Interuniversity Research Centre on Enterprise Networks, Logistics, and Transportation (CIRRELT), Montreal, Canada		

Paper Code	Authors	Paper Title
1080-ODSIE2023	Elif Yiğit; Seda Özmutlu	İş Süreci Otomasyonunda Hataların Makine Öğrenmesi Yöntemleri ile Analizi
1112-ODSIE2023	Aybike Özyüksel Çiftçioğlu	Advancing Construction Safety: Machine Learning Assessment of Slab-Column Joint Failures
1117-ODSIE2023	Tuan Le	The effectiveness of GNMF in predicting the direction of fluctuations of the Vietnam stock market index VN30
1223-ODSIE2023	Elif Sezer; Güngör Yıldırım; Mahmut Temel Özdemir	Türkiye'deki Toplam Elektrik Tüketiminin Holt-Winters Üstel Düzleştirme Yöntemi İle Tahmini
1212-ODSIE2023	Kerem Can Bulut; Alev Taşkin	Deprem Sonrası Yangında Simülasyon Metodolojileri: Bir Kavramsal Bakış Açısı
1279-ODSIE2023	Maksym Lupei	Fake news detection model explanation and infrastructure aspects

Date: **Friday, 17.11.2023** Time: **9:00-10:30**	Session Code: **OP13**	**Room 3, link: https://zoom.us/j/99963685990** **Host: Muhammet Ali Şencan**
Title: ***"Data Analytics in Intelligent Transportation Systems"***		
Panel Chair: **Dr. Serap Ergun,** Isparta University of Applied Sciences, Turkey		

Paper Code	Authors	Paper Title
1024-ODSIE2023	Serap Ergün	Optimizing Traffic Flow: A Multi-Agent Approach to Dynamic Signal Control Accounting for Vehicle Types
1017-ODSIE2023	Marvin Caspar; Oliver Wendt	An Exact Solution Method for Request Acceptance and Transportation Planning Decisions under Uncertainty
1124-ODSIE2023	Ferhat Yuna; Burak Erkayman	Heuristic Solution Approaches for Due Diligence in Disaster Management
1147-ODSIE2023	Potula Sravani; Ijjada Sreenivasa Rao	Performance Enhancement of Two-Way DF Relayed Cooperative NOMA Vehicular Network with Outdated CSI and Imperfect SIC
1023-ODSIE2023	Sonya Javadi; Büşra Tombul; Zeynep Yılmaz	Impact of Fuel Prices on Transport Behavior: A Case Study in Istanbul
1260-ODSIE2023	Mohammad Khalilzadeh	A Multi-Objective Optimization Model for Locating Landfills and Transporting Hospital Waste under Uncertainty
1025-ODSIE2023	Serap Ergün	Enhancing Traffic Signal Split Control with Pedestrian Puddle Information Integration

Date: **Friday, 17.11.2023** Time: **9:00-10:30**	Session Code: **OP14**	**Room 4, link: https://zoom.us/j/94571022559** **Hosts: Gizem Karatepe & Cansu Tayar**
Title: ***"Project management and Fintech"***		
Panel Chair: **Dr. Meenakshi Kaushik**, Trinity Institute of Innovations in Professional Studies (Guru Gobind Indraprastha University), India		
Panel Member: **Dr. Asif Akhtar**, Associate Professor, Department of Business Administration, Aligarh Muslim Central University, India		

Paper Code	Authors	Paper Title
1081-ODSIE2023	Mariem Bayar; Mohamed Ali Khemakhem; Mohamed Ayman Boujelben	A Statistic-Based Literature Review for the Resource- Constrained Project Scheduling Problem
1148-ODSIE2023	Fatima-Zahra Eddoug; Rajaaa Benaabbou; Jamal Benhra	Lean Agility Approach in Project Management: Moroccan Context
1168-ODSIE2023	Pankaj A Tiwari	The Moderating Role of Project Complexity and Strategic Agility Between Absorptive Capacity, Project Success, and Business Success
1208-ODSIE2023	Nhat Hong Do	A Two-Phase Time-Based Robust Shift Genetic Algorithm for Multi-Resource Flexible Project Scheduling Under Uncertainties
1206-ODSIE2023	Alaa Abdulkareem Almado, Raghad Mohammed Algburi	The Role of Banks in Financial Literacy and Increasing the Use of Financial Technology: An Exploratory Study of a Sample of Private Bank Managers in Baghdad
1209-ODSIE2023	Jayalakshmi K U; Chidananda H L; Harshitha K	Effect of Perceived Technology Acceptance on Online Stock Trading Behavior: An Empirical Analysis

Date: **Friday, 17.11.2023** Time: **10:45-12:15**	Session Code: **OP15**	**Room 2, link: https://zoom.us/j/99376290444** **Hosts: Anderson Chukwudi Oki & Kutay Alada**
Title: ***"Advancing Innovation and Collaboration in Science, Engineering, and Information Technology"***		
Panel Chair: **Dr. Nguyễn Thành Luân,** HUFLIT, Vietnam		
Panel Members: **Dr Nguyen Duc Hoai Anh,** HUFLIT, Vietnam **Mr. Tri-Quan Dang,** HUFLIT, Vietnam		

Paper Code	Authors	Paper Title
1076-ODSIE2023	Er. Aditya Singh	The Development of Robotic Process Automation in the Construction Sector
1130-ODSIE2023	Daniel Okari Orucho; Fredrick Awuor Mzee; Collins Oduor	Assessing Operation of Mobile Banking Applications that Support Customers to Access Banking Services Remotely: A Review
1087-ODSIE2023	Halil Ibrahim Ayaz; Zehra Kamışlı Öztürk	Shilling Attack Detection with Classification Algorithms and Oversampling
1161-ODSIE2023	Huu Quoc Dang; Mẫn Thị Huệ; Ngoc Mai Thi Nguyen	Optimize Retail System Performance by Analyzing Big Data and Visualizing with Power BI
1224-ODSIE2023	Kishori Kasat; Uday Sinha; Sakshi Juneja; Anurupa Ghatge; Nikhil Thorat	Artificial Intelligence in Education: A Comprehensive Examination of Integration, Impact, and Future Implications
1248-ODSIE2023	Seyed Mohammad Ali Jafari; Ehsan Chitsaz	Nasdaq-100 Companies' Hiring Insights: A Topic-based Classification Approach to the Labor Market

Date: **Friday, 17.11.2023** Time: **10:45-12:15**	Session Code: **OP16**	**Room 3, link: https://zoom.us/j/99963685990** **Host: Muhammet Ali Şencan**
Title: ***"Artificial intelligence for biomedicine and healthcare"***		
Panel Chair: **Dr. Hela Limam,** University of Tunis El Manar, Tunisia		

Paper Code	Authors	Paper Title
1041-ODSIE2023	Hela Limam	An Advanced Approach to COVID-19 Detection using Deep Learning and X-ray Imaging
1043-ODSIE2023	Pradipta Patra; Arpita Ghosh	Exploring Factors that Affect the User Intention to Take Covid Vaccine Dose
1233-ODSIE2023	El Mehdi Chakour; Zineb Sadok; Mohamed Akil; rostom kachouri; Anass Mansouri; Idriss Benatiya Andaloussi; Ali Ahaitouf	Color Fundus Image Enhancement – A deep learning based desktop app for Earlier Screening of Diabetic Retinopathy Using Real-Time Handheld Fundus Camera
1095-ODSIE2023	Ghada Yakoubi; Chahid Ahabchane; SAFA BHAR LAYEB	On Solving the Physicians Scheduling Problem at an Emergency Department: A Case Study from Canada
1145-ODSIE2023	Noyoung You; Adam Pickens	Assessing the Impact of Hearing Loss on Health-Related Quality of Life in Elderly: Using the Mobile Pure-Tone Hearing Application 'hEAR'
1086-ODSIE2023	Siwar Gorrab; Fahmi Ben Rejab; Kaouther Nouira	Unsupervised Incremental-decremental Attribute Learning Healthcare Application based Feature Selection

Date: **Friday, 17.11.2023** Time: **10:45-12:15**	Session Code: **OP17**	**Room 4, link: https://zoom.us/j/94571022559** **Hosts: Gizem Karatepe & Cansu Tayar**

Title:

"Machine learning algorithms"

Panel Chairs:
Dr. Erfan Babaee Tirkolaee, Istinye University, Istanbul, Turkey
Dr. Alireza Goli, Department of Industrial Engineering, University of Isfahan, Isfahan, Iran

Paper Code	Authors	Paper Title
1029-ODSIE2023	Ouissem Mougari, Sarra Bouzid; Sihem Saadi	Integration of Artificial Intelligence for the Analysis and Monitoring of Projects within Companies
1125-ODSIE2023	Gülşen Akman; Gamze Akman; Ali İhsan Boyacı	Who is the Green? Assessing Enterprise Green Innovation in Manufacturing Industry via Machine Learning Approaches
1163-ODSIE2023	Le V hung	Fast and Accurate Right-Hand detection based on YOLOv8 from Egocentric vision dataset
1165-ODSIE2023	Le V hung	Comparative Study of 3D Hand Pose Estimation on HOI4D dataset by Convolutional Neural Networks
1306-ODSIE2023	Ozan Akhan; Şenol Pişkin	Comparative Analysis of Deep Convolutional Neural Network Models for Classification of Brain Tumors
1135-ODSIE2023	Seyed Mohammadreza Shirazi Matin	Predicting Customer Interest in Retail Development through Machine Learning Methods
1116-ODSIE2023	Sharath Kumar Jagannathan; Gulhan Bizel	Temporal Emotional and Thematic Progression (TETP): A Novel Analysis of Mental Health Discussions on Social Platforms

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Date: **Friday, 17.11.2023** Time: **13:30-14:15**	**Workshop**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Title:

"Unlocking the Potential of Drones: Exploring Diverse Applications"

Speakers:
Prof. Sadia Samar Ali
Department of Industrial Engineering, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia

Abstract:
The successful integration of technology into systems relies on enablers and determinants. Enablers facilitate the smooth integration of technology, while determinants ensure the adoption of appropriate and suitable technology. This research introduces a robust decision framework influencing the adoption of drone technology, emphasizing the enablers connected to innovative technology integration. The study provides valuable insights into the factors that encourage the utilization and acceptance of new technologies while also highlighting areas that require further investigation and addressing prospective challenges. By gaining a comprehensive understanding of these dynamics, organizations can effectively navigate the intricacies of technology integration and optimize the advantages gleaned from adopting drone technology across various industries, such as the publishing industry and the warehousing industry. Moreover, this presentation will integrate authentic case examples that demonstrate the practical implications of the research findings.

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Date**: Friday, 17.11.2023** Time:**14:15 -15:00**	**Workshop**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Title:

"Indispensable Arbitration of Leaders is truly Conducive for the Utmost Clarity of an Organization "

Speaker:
Dr. Rudrarup Gupta
Faculty of Skill Development, Tagore School of Rural Development and Agriculture Management, Kalyani University, India

Abstract:
Sustainable development should be the ultimate objective of our present combative globe and all the global leaders indeed. This is a highly competitive situation and it has the real uncertainty as well. That is why, all the global leaders should be deciding to sustain their existing organizational growth along with their words and wisdom. On the other hand, leaders take the calculative risks and they desperately move through their structured planning and the amicable initiation of protocol indeed. That is the reason why the first and foremost responsibility would be to analyze their both individual and entire strength of workforce respectively. It shall be decisive their needful speed of movements and the consequential interpretation at the same time. How many front line workers would be participating in this most pivotal organizational paradigm, what are their professional agilities and how they shall be implementing the same for their existing organization? These are all the very relevant questions for both the leaders and followers to focus upon and they have to immediately find out the prompt solutions accordingly. The concept would be their "Human Resource Cell" will have to be really strong and sound in the end. It shall be reflecting at the time of recruitment and their professional appointments as well. Because all the leaders shall have to judge them based upon their real occupational expertise and the existing educational merits. Then only they will be able to perform according to their given situations. First of all they need the detailed counseling in an open session where they shall have to defend in frontof all the esteemed experts then they will be allotted for their very important trainings for overall refinements and qualitative developments. Leaders will be solely responsible to communicate about the root maps of an organization and how it shall be regulated by them based upon the "Requirement Friendly Strategy" where everybody will be concerned about the same to think about and they will be raising their invaluable points not only to finalize the plan but to execute the same as per the requirements.

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Date: **Friday, 17.11.2023** Time: **13:30-15:00**	Session Code: **OP18**	**Room 2, link: https://zoom.us/j/99376290444** **Hosts: Anderson Chukwudi Oki & Kutay Alada**
Title: ***"Advancing Operations Management through Optimization and Data Science"***		
Panel Chair: **Dr. Marwa Hasni**, Laboratory 'Optimisation et Analyse des Systèmes Industriels et de Service'. LR-OASIS Ecole Nationale d'Ingénieurs de Tunis, University of Tunis El Manar, Tunis, Tunisia		

Paper Code	Authors	Paper Title
1031-ODSIE2023	Shuvabrata Chakraborty	Optimization in the Online Food Delivery Business
1093-ODSIE2023	Kiran Anwar; Metin Türkay	A Bi-Objective Inbound Logistics Optimization Model for Fresh Fruits Waste Management
1011-ODSIE2023	Safa Bhar Layeb; Bilel Ben Arbia	Key Factors for Digital Transformation of Healthcare Organizations: Case Study from the Gulf Region
1097-ODSIE2023	Claudio Marcio Cassela Inacio Jr; Sergio Adriani David	The influence of Russia-Ukraine war on energy prices: The DCCA approach
1193-ODSIE2023	Fikriye Ataman	Hadoop Based Fast Geographically Weighted Regression (HB-FGWR) with Map-Reduce
1271-ODSIE2023	Khitam A Salman; Hussein K. Khafaji	A new approach for Arabic Document Clustering Using Maximal Frequent Wordsets
1311-ODSIE2023	Marwa Hasni; Nouha Bouslama	Enhancing forecast accuracy for intermittent demand through moments distribution adjustment

Date: **Friday, 17.11.2023** Time: **13:30-15:00**	Session Code: **OP19**	**Room 3, link: https://zoom.us/j/99963685990** **Host: Muhammet Ali Şencan**
Title: ***"E-Government, E-Commerce and E-Learning"***		
Panel Chair: **Dr. Simerjeet Singh Bawa**, Himalayan Institute of Management, India		

Paper Code	Authors	Paper Title
1045-ODSIE2023	Nur Rahmah Syah Ramdani; Zulkarnain Zulkarnain	Key Factors of Mobile Applications in Government Services (mG-App) Adoption in Indonesia: an Empirical Study Based on Netnography and Text Mining Approach
1103-ODSIE2023	Naga Prasanthi Kundeti	Opinion Mining of Customer Reviews from E-Commerce Websites
1302-ODSIE2023	Emre Cakmak	Station Location Selection of Micro-Mobile Vehicles: Istanbul Case
1181-ODSIE2023	Gözde Aydin; Eyüp Tolunay KÜP; Alaeddin Türkmen; Ayşe Dilara Türkmen	A Gamification Framework for Crowdsourced Couriers: Turkish E-Commerce Logistic Company Case Study
1301-ODSIE2023	Emre Cakmak; Özge Günel	Selection of Enterprise Resource Planning (ERP) with Fuzzy Codas Method- Application for the E-Commerce Companies

Date: **Friday, 17.11.2023** Time: **13:30-15:00**	Session Code: **OP20**	**Room 4, link: https://zoom.us/j/94571022559** **Hosts: Gizem Karatepe & Cansu Tayar**
Title: ***"Analytics for Sustainable Society"***		
Panel Chairs: **Dr. Sanjib Biswas**, Calcutta Business School, India **Dr. Samarjit Kar**, National Institute of Technology Durgapur, India **Dr. Darko Božanić**, University of Defence, Belgrade, Serbia		

Paper Code	Authors	Paper Title
1114-ODSIE2023	Omar Falah Hasan Al.obaidy; Hameed Salim AL-kaabi; Muhammad Ibrahim Jawad Al-Dulaimi	Dimensions of the entrepreneurial orientation of business organizations and its impact on achieving competitive advantage
1236-ODSIE2023	Sanjib Biswas; Asha Sharma; Darko Božanić; Samarjit Kar	A Robustness Assessment of Criteria Weight Calculation by MCDM Models in Sustainable Transportation Problem
1237-ODSIE2023	Vinay Kumar Shaw; Sanjib Biswas; Gautam Bandyopadhyay; Jayanta Nath Mukhopadhaya	Resilience and Sustainable Performance: Evidence from Banking Sector
1090-ODSIE2023	Shaurya Singh; Srajan Augustaya; Vipul Mishra; Shubham Gupta; Adesh Doifode; Ardhendu Shekhar Singh; Trupti Bhosale; Deepa Pillai	Green Financing and Sustainability in Banking Sector
1083-ODSIE2023	Uğur Güven Adar; Osman Cayli; Atinc Yilmaz	Estimating Parking Lot Occupancy Based on Traffic Congestion for Route Planning
1235-ODSIE2023	Mainak Ranjan Chaki; Sanjib Biswas; Banhi Guha; Gautam Bandyopadhyay	An Exploration of the Latent Interests of the HR Leaders using Group Decision Analysis Approach

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Date: **Friday, 17.11.2023** Time:**15:35-16:20**	**Closing Ceremony** **Keynote Speech**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Title:

"Reinforcement Learning for Solving Operations Research Problems: News Trends and Challenges"

Speaker:
Prof. Safa Bhar LAYEB
LR-OASIS, National Engineering School of Tunis, University of Tunis El Manar, Tunisia

Abstract:
The emerging trends in data science and artificial intelligence seems representing the future of Operations Research (OR) and decision sciences as a whole. One of the core methods of machine learning is Reinforcement Learning (RL). It basically consists in training a machine learning model in order to make a sequence of decisions based on a trial-and-error approach. Recently, several studies have focused on how classical Operational Research problems are effectively tackled through Reinforcement Learning. Compared with classical metaheuristics and constructive heuristics, RL algorithms have their specific characteristics in solving OR problems. More precisely, RL algorithms reveal the inner structure of the problems by maintaining and improving action value function based on which the scheduling policy is generated and improved. Hence, RL algorithms not only explore a good policy but also use the structure of the problems to adjust the policy, which may explain their potential efficiency for solving large-scale problems. Applications of RL to solve scheduling, routing and loading problems will be presented.
A promising research avenue is to combine Operations Research techniques, precisely heuristics and metaheuristics, with reinforcement learning based-approaches in order to improve the quality of the solutions. New avenues of research on Evolutionary Reinforcement Learning (ERL) and its application for solving OR problems will be described.

Date: **Friday, 17.11.2023** Time: **15:15-16:45**	**Room 1, link: https://zoom.us/j/94179581267** **Host: Alper Koçak**

Closing Ceremony

#	Title	Time	Duration (minutes)
1	Dr. Nadi Serhan Aydın- Speech (Conference Co-Chair) Concluding Remarks	15:15-15:25	10
2	Clips Presentation	15:25-15:35	10
3	Prof. Safa Bhar Layeb- Keynote Speech (LR-OASIS, National Engineering School of Tunis, University of Tunis El Manar, Tunisia Reinforcement Learning for Solving Operations Research Problems: News Trends and Challenges	15:35-16:20	45
4	PhD Competition Report and Announcement of Winner	16:20-16:30	10
5	Clip: ODSIE 2023- Reviewing Memories	16:30-16:35	5
6	Appreciation	16:35-16:45	10