

31<sup>st</sup> European Conference

On **Operational  
Research**



Final Report





**EUROATHENS**  
**2021 GREECE**  
HYBRID

# 31<sup>st</sup> European Conference On **Operational Research**

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On **Operational Research**  
July 11-14 UNIVERSITY OF WEST ATTICA

# Conference summary

- Despite the unpleasant COVID-19 situation, the Organizing Committee was monitoring closing relevant updates regarding international and national protocols
- The final approval for the organization of a hybrid conference was received 3 weeks before Conference starting. Till that date, the Conference format worked in 2 parallel versions ( hybrid & virtual)
- In the meantime, there was a constant correspondence with the delegates ( speakers, presenters, participants) aiming to provide them full information and clarity
- The Program Committee has made a great effort to adjust the program in the hybrid format needs
- During the implementation of the Conference, all COVID-19 measures and protocols have been followed
- As a final outcome, the decision of EURO 2021 organization in a hybrid format, was totally successful and high appreciated by the physical delegates

## The Conference in numbers...

- ❑ 355 Delegates (physical participation) & 1753 Delegates (on-line participation)
- ❑ 12 Keynote Speakers
- ❑ 4 Plenary Speakers
- ❑ 37 Program and Organizing Committee Members
- ❑ 450 Delegates completed the Conference's evaluation form
- ❑ 80,45 % of the Delegates rated the event as excellent or very good

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# Committees

## Program Committee



Rudolf Vetschera



Joana Matos Dias



Gabriele Eichfelder



Rita Laura D'Ecclesia



Sarah Fores



Bernard Fortz



Luis Gouveia



Eligius M.T. Hendrix



Raimo P. Hämmäläinen



Joanna Jozefowska





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## Program Committee



Miłosz Kadziński



Roel Leus



Dario Landa-Silva



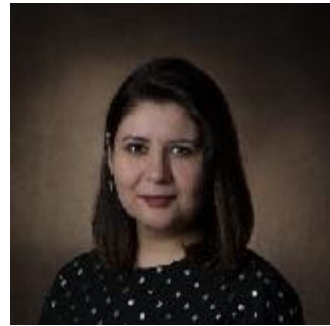
Nikolaos Matsatsinis



E. Lerzan Örmeci



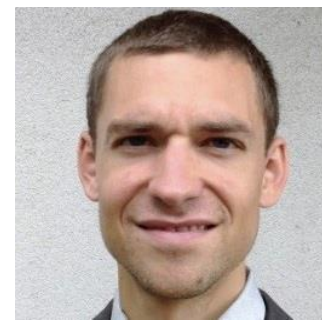
Dolores Romero Morales



Shadi Sharif Azadeh



Gerhard-Wilhelm Weber



Stefan Wrzaczek



Pascale Zaraté





## Organizing Committee



Nikolaos Matsatsinis



John Psarras



Spyridon Alexopoulos



Apostolos Burnetas



Pavlos Delias



Haris Doukas



Michael Doumpos



Evangelos Grigoroudis



## Organizing Committee



Sarah Fores



Joanna Jozefowska



Vassilis Kostoglou



Yannis Politis



Yannis Siskos



Athanasios Spyridakos



Nikos Tsotsolas



Rudolf Vetschera



Constantin Zopounidis



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# Scientific Papers



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The Abstract Submission Deadline ended on 2<sup>nd</sup> May 2021

The abstract submission was managed by EURO and the process was made available through the EURO [Abstract Submission System](#).

Abstracts must be written in English and contain no more than 1,500 characters in plain text format (no formulas are allowed).

The list of Streams can be found at: [www.euro-online.org](http://www.euro-online.org).

Each registered attendee was allowed to present one paper at the conference.

## ABSTRACTS SUBMISSION

1292

1st Deadline  
28/2/2021

1860

2nd Deadline  
28/3/2021

2190

3rd Deadline  
2/5/2021

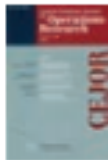


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## Special Issues

The following journals prepared special issues about topics related to the EURO 2021 conference



Central European Journal of Operations Research



**EURO Journal on Computational Optimization**  
Title: Optimization Challenges in Data Science  
Guest Editors: Coralia Cartis, Panayotis Mertikopoulos



**EURO Journal on Decision Processes (EJDP)**



**EURO Journal on Transportation and Logistics (EJTL)**  
Title: Large-scale optimization  
Guest Editors: Shadi Sharif Azadeh



**European Journal of Operational Research**  
Title: Submissions will be «by invitation only»  
Guest Editors: Nikolaos Matsatsinis, Rudolf Vetschera



**Frontiers in Artificial Intelligence**  
Title: AI and sustainable finance  
Guest Editors: Rita L. D'Ecclesia, Susanna Levantesi



**International Journal of Decision Support Systems**  
Title: Intelligent Decision Support Systems  
Operational Research in Marketing  
Guest Editors: Pavlos Dellas, Stelios Tsafarakis



**International Journal of Multicriteria Decision Making**  
Title: Multicriteria Decision Aid Applications and Systems  
Guest Editors: Athanasios Spyridakos



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## Special Issues



### International Transactions in Operations Research

Title: Decision Support: Combining technology and algorithms to solve complex problems

Guest Editors: Milosz Kadzinski, Rudolf Vetschera, Pascale Zaraté



### Journal of Dynamics and Games

Title: Advances in Dynamics and Games

Guest Editors: Andrea Seidl et al.



### Journal of Global Optimization

Title: GO and MINLP algorithms

Guest Editors: Gabriele Eichfelder, Eligius MT Hendrix, Martin Schmidt



### Numerical Algebra, Control and Optimization

Title: Emerging OR Research and Application on Control and Dynamics

Guest Editors: Stefan Wrzaczek, Willi Weber



### Operations Research – An international journal (ORJ)

Title: Operations Research in Climate Policy and Intelligent Energy Services

Guest Editors: Haris Doukas, John Psarras



### Operations Research for Health Care

Title: Innovative approaches for emerging challenges in health services and care

Guest Editors: Ines Marques, Joana Dias



### Optimization

Title: Recent Advances in Vector and Set Optimization

Guest Editors: Vicente Novo, Lidia Huerf



### SN Operations Research Forum

Title: Lessons learned from failed OR research

Guest Editors: Marco Lübbecke, Eligius MT Hendrix



### Socio-Economic Planning Sciences

Title: Methods and techniques for assessment of health care performance

Guest Editors: Diogo Cunha Ferreira, Ana Camanho, José Rui Figueira

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# Program & Attendance Report

## The Scientific Program in numbers...

- ❑ **355** Delegates actively participated in the Scientific Program with a physical presence:
  - **3** Invited Speakers (physical presence)
  
- ❑ **1753** Delegates actively participated in the Scientific Program with an on-line presence:
  - **11** Invited Speakers (on-line participation)
  
- ❑ During the Conference were conducted:
  - **534** Sessions were conducted during the Conference



## Plenary Speakers



Coralia Cartis



Janny M.Y. Leung

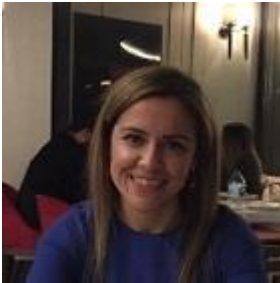


Yanis Varoufakis



George Mavrotas

## Keynote Speakers



Sirma Zeynep Alparslan- Gök



Mirjana Kljajić Borštnar



Apostolos Burnetas



Michael\_Carter



Bissan Ghaddar



Juan Miguel Morales González



## Keynote Speakers



Judit Lienert



Ruth Misener



Georg Pflug



Zilla Sinuany-Stern



Leen Stougie




Katia Sycara



# Virtual Attendance Report


Monday, July 12



MA-1: Mathematical Models in Macro- and Microeconomics 1	89
MB-1: Dynamics and Games 3	115
MC-1: Sustainable finance for the environment	61
MD-1: Optimal Control Theory and Applications	54
MA-2: Power system economics	80
MB-2: Flexible shop scheduling problems	71
MC-2: Robust resource allocation and scheduling	47
MD-2: Scheduling and Project Management	33
MA-3: Sustainable Supply Chains	53
MB-3: Robust and stochastic modeling in logistics, production and warehouse planning	47
MC-3: Interactive Multiobjective Combinatorial Optimization	41
MD-3: The Role of Mathematical Optimization in Data Science VI	37
MA-4: Emerging Applications in Management Science I	35
MC-4: Emerging Collaborative Economics and Management under Uncertainty 2	32
MD-4: Organizational and Information Management 1	17
MC-5: Analytic Hierarchy Process	18
MD-5: AHP/ANP Applications	12
MA-6: MILP algorithms for routing problems I	64
MB-6: Mixed Integer Linear Programming for resource allocation	51
MC-6: Mixed Integer Linear Programming for transportation problems I	54
MD-6: MILP in Manufacturing and Logistics	56
MA-21: Exploring individual differences and cognitive biases	76
MB-21: Behavioural impacts from the use of gamified approaches	96
MC-21: General papers	105
MD-21: Behavioural impacts from the use of decision analysis approaches	234
ME-21: Coralia Cartis	357
MF-21: Networking - career progression strategies	195
MG-21: Behavioral Modelling in Organization Studies	52
MA-22: Conic optimization and applications	48

# Virtual Attendance Report


Monday, July 12



MB-22: Copositive and completely positive optimization	38
MC-22: On some extensions of Stackelberg games	42
MD-22: Multi-level optimization for energy management I	32
MG-22: Theory and methods for continuous bilevel optimization I	15
MA-23: Recent Progresses in Mixed-Integer Derivative-free Optimization	63
MB-23: Emerging Trends in Derivative-free Optimization	56
MC-23: Recent Advances in Derivative-free Optimization I	58
MD-23: Complexity and New Algorithms in Derivative-free Optimization	46
MG-23: Recent Advances in Derivative-free Optimization II	26
MA-24: Recent Results in Global Optimization 1	47
MB-24: Consensus-Based Global Optimization	49
MC-24: Recent Results in Global Optimization 2	64
MD-24: Optimization with machine learning surrogate models	42
MG-24: Real Options	21
MA-25: Stochastic Optimization in Energy	57
MB-25: Stochastic dominance in stochastic optimization	60
MC-25: Novel Methodologies for Energy Trading under Uncertainty	58
MD-25: Stochastic Optimization for Robust Food-Water-Energy-Environmental Security Nexus Management	46
MG-25: Stochastic Dual Dynamic Programming	32
MB-26: Processes and techniques for implementing decision analysis	44
MC-26: Organizational, social, and cognitive aspects in applying data-based decision analysis	52
MD-26: Decision Analysis - Processes	27
MG-26: Software for LP, MIP, and ML	75
MA-27: Prescriptive Analytics in Service Routing	59
MB-27: E-Fulfillment	69
MC-27: Choice-Based Optimization	52
MD-27: Demand Management for Last-mile Logistics & Mobility	50
MA-28: Data Science and Analytics - Methodology III	54
MB-28: Data Science and Analytics - Methodology I	40
MC-28: Data Science and Analytics - Finance, efficiency and security	17

# Virtual Attendance Report


Monday, July 12



MD-28: Data Science and Analytics - Applications in Marketing	18
MG-28: Data Mining and Statistics	9
MA-29: AHP/ANP Applications	23
MB-29: Analytic Hierarchy Process	20
MC-29: Dynamics and Games 2	19
MD-29: Dynamics and Games 1	12
MG-29: Intelligent Decision Methods	24
MA-30: Application of information/knowledge systems for OR decisions	28
MB-30: Information Systems and OR	26
MC-30: System Dynamics Modeling and Simulation - Session 2	29
MD-30: System Dynamics Modeling and Simulation - Session 1	27
MG-30: Fairness and Game Theory	30
MA-31: Interactive and Preference based Methods in (Evolutionary) Multiobjective Optimization	28
MB-31: Fuzzy Multicriteria Optimization: Methods and Applications	37
MC-31: Applications and Methods of Multiobjective Optimization	41
MD-31: Approximation Approaches for Multiobjective Optimization	30
MG-31: New frontiers in portfolio selection	13
MA-32: Decision Support in Investment Management & Banking 1	29
MB-32: Decision Support in Investment Management & Banking 2	33
MC-32: Fair and explainable models 1	34
MD-32: Fair and explainable models 2	21
MG-32: Multicriteria Decision Aid Applications	21
MA-33: MCDA Methods 3	32
MB-33: MCDA Methods 4	33
MC-33: Multi-objective optimization sustainability-focused	39
MD-33: MCDA for sustainability, resilience and risk assessment	32
MG-33: Multicriteria decision support systems	20
MA-34: Machine Learning and Combinatorial Optimization I	117
MB-34: Scheduling models and algorithms	61
MC-34: CO problems in maritime and intermodal logistics	45
MD-34: Applied Combinatorial Optimization	34
MG-34: Integrated problem settings I	24
MA-35: Topics in Combinatorial Optimization I	45

# Virtual Attendance Report


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MB-35: Vehicle routing I	79
MC-35: Scheduling Topics in Modern Manufacturing	42
MD-35: Combinatorial Optimization in Health and Social Care I	26
MG-35: Optimization Advances with Quantum Applications I	9
MA-36: Investment Choices	23
MB-36: Performance Assessment and Benchmarking	23
MC-36: EEPA 1	36
MD-36: EEPA 2	29
MG-36: Medical Supply Chains and Decision Making	20
MA-37: OR for DNA sequences	24
MB-37: Graphs, networks and nets in Bioinformatics	20
MD-37: GreenTech & GreenFin: Enabling Sustainable Investing leveraging Technological Innovation	12
MG-37: Routing under uncertainty I	26
MA-38: Scheduling in Healthcare	45
MB-38: Healthcare Logistics and Services	50
MC-38: Emergency Services	37
MD-38: Healthcare Logistics	23
MG-38: Advances in Blood Supply Chain Management	15
MA-39: Complex routing and location problems II	50
MB-39: Deliveries in urban areas	63
MC-39: Routing under consideration of human factors	65
MD-39: Warehouse and manufacturing logistics	52
MG-39: Data-driven approaches in planning, routing and scheduling problems	27
MA-40: Waste collection problems	40
MB-40: Economics and game theory	43
MC-40: Personnel scheduling in health care (1)	35
MD-40: Multiobjective Branch & Bound/Cut/Prize Algorithms	30
MG-40: Optimisation algorithms for various deterministic and stochastic scheduling problems	26
MA-41: Extensions of the resource-constrained project scheduling problem	24
MB-41: Mathematical Models in Macro- and Microeconomics 2	31
MC-41: Rolling Stock and Vehicle (Re)scheduling	43
MD-41: Future of public transport	45
MG-41: Aspects of passenger routing in public transport	32

# Virtual Attendance Report

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MB-42: Purchasing and supplier selection in sustainable supply chains	26
MC-42: Scheduling problems in sustainable supply chains	15
MD-42: Developing sustainable supply chains	20
MG-42: Modern trends in MDPs	20
MA-43: Stochastic models in chronic and home care management	32
MB-43: Stochastic models in inventory, emergency departments and blood donation	48
MC-43: Stochastic models in hospital and appointment management	49
MD-43: Decision support in an epidemic context	29
MG-43: City Logistics	32
MA-44: Optimization in Manufacturing and Maintenance	27
MB-44: How OR became my business: OR users speak out	91
MC-44: Machine Learning and OR	114
MD-44: Julia: New Kid on the Block	72
MG-44: Speed networking	23
MA-45: OR and the Arts, Creativity 2	24
MB-45: Newsvendor problems and supply management	32
MC-45: Inventory and transportation planning	22
MD-45: Production planning	16
MG-45: Emerging optimization problems in air mobility	17
MA-46: Specific Applications of Stochastic Modeling and Simulation in Engineering, Management and Science 1	28
MB-46: Stochastic Models II	32
MC-46: Stochastic Models I	24
MD-46: Analysis of Stochastic Production and Retail Systems	19
MB-47: Emerging Applications in Management Science III	30
MC-47: Emerging Applications in Management Science II	14
MD-47: Emerging Collaborative Economics and Management under Uncertainty 1	8
MC-48: Leen Stougie	69
MD-48: Bissan Ghaddar	52
MG-48: Michael Carter	38
MB-49: AI4RAILS keynote	41
MC-49: AI4RAILS I	27
MD-49: AI4RAILS II	22



# Virtual Attendance Report

Monday, July 12



MB-50: Emerging Collaborative Economics and Management under Uncertainty 3	25
MC-50: Financial modelling: New developments and its impact on society beyond Finance	21
MD-50: Jaap Spronk's legacy	11
MA-51: Optimal Control Theory and Applications 1	29
MB-51: The Value of Information in Optimal Control	30
MC-51: OR in Military, Defense, and International Security	33
MD-51: OR in Military, Defense, and International Security	23
MA-52: EDDA 1	44
MB-52: EDDA 2	34
MC-52: Organizational and Information Management 2	11
MC-53: Specific Applications of Stochastic Modeling and Simulation in Engineering, Management and Science	25
MD-53: Specific Applications of Stochastic Modeling and Simulation in Engineering, Management and Science 2	15
MB-54: Financial Reporting	31
MC-54: Performance Measurement, Valuation, Financial Planning	14
MD-63: Last minute changes 1	35
MF-63: Last minute changes 2	78

# Virtual Attendance Report

Tuesday, July 13



TB-1: Katia Sycara	113
TC-1: Apostolos Burnetas	26
TB-2: Dynamical Systems and Mathematical Modeling in OR 1	36
TC-2: Portfolio Selection	42
TD-2: Stochastic Dominance in Finance	42
TE-2: New Perspectives in Queues	39
TF-2: Game Theory, Solutions and Structures II	25
TB-3: Lot sizing: decomposition approaches and applications	49
TC-3: Data Science and Analytics	27
TD-3: Numerical Methods in Continuous Optimization	31
TE-3: Supply chain planning - on site	12
TB-4: Healthcare in developing countries	21
TD-4: Humanitarian supply chains	27
TE-4: Models for Disaster Preparedness and Response	20
TB-5: OR in Aviation 1	36
TC-5: OR for Development and Emerging or Developing Countries	23
TD-5: OR in Agriculture	18
TE-5: Further topics in Energy Management	17
TF-5: Optimizing the energy transition	16
TB-6: Insurance risk management	29
TC-6: Heuristics, mathheuristics and hyperheuristics	40
TD-6: Large scale optimization II	42
TE-6: Topics in Combinatorial Optimization II	48
TF-6: Combinatorial optimization for distribution and logistics II	28
TD-7: Network design and facility location problems	26
TE-7: Modeling Decisions with AI	23
TF-7: Urban and Territorial Planning in MCDA 1	15
TC-8: Quality and Maintenance	9
TD-8: OR in Marketing	11
TE-8: Retail Operations and Food Production	22
TF-8: Online and Omnichannel Retailing II	15

# Virtual Attendance Report

Tuesday, July 13



TA-21: Janny M.Y. Leung [IFORS Distinguished Lecture]	289
TB-21: Agent-Based Computational Management Science	110
TC-21: Methodological and practical contributions of Soft OR/PSMs to Policy Making - Session A	103
TD-21: General papers	75
TE-21: Understanding the practice of Problem Structuring Methods	57
TF-21: Methodological and practical contributions of Soft OR/PSMs to Policy Making - Session B	36
TB-22: Bilevel stochastic optimization and related topics	46
TC-22: Nash equilibria in Stackelberg models	48
TD-22: Bilevel optimization in investment, planning and production	31
TE-22: Theory and methods for continuous bilevel optimization II	37
TF-22: Multi-level optimization for energy management II	24
TB-23: Global and Local Derivative-free Optimization Under Uncertainty	41
TC-23: Derivative-free Optimization: Methods and Applications in Industrial Problems	29
TD-23: Derivative-free Optimization and Connections to Machine Learning	36
TE-23: Applications of Optimization in Engineering I	20
TF-23: Applications of Optimization in Engineering II	15
TB-24: Vector and Set Optimization I	31
TC-24: Vector and Set Optimization II	39
TD-24: Vector and Set Optimization III	32
TE-24: Vector and Set Optimization IV	20
TB-25: Advances in Data-driven Decision-making under Uncertainty and its Applications	55
TC-25: Topics in Stochastic and Robust Optimization	38
TD-25: Optimization under Uncertainty for Production and Supply Chain Management	37
TE-25: Advances in Optimization under Uncertainty	34
TF-25: Advances in Distributionally Robust Optimization and Risk Averse Optimization	18
TB-26: Software for LP/MIP	118
TC-26: Topics in Nonlinear Optimization	43
TD-26: Interior point algorithms in convex optimization II	33
TE-26: Interior point algorithms in convex optimization I	24
TF-26: Linear complementarity problems and their applications	20

# Virtual Attendance Report

Tuesday, July 13

TB-27: Data Science and Analytics - Applications 1	24
TC-27: Optimization and Learning from Data	27
TD-27: Large scale optimization II	23
TE-27: Large scale optimization I	24
TF-27: Robust, federated, and distributed learning	18
TB-28: Machine Learning and Optimization: new challenges, applications and objectives II	68
TC-28: The Role of Mathematical Optimization in Data Science I	72
TD-28: The Role of Mathematical Optimization in Data Science IV	45
TE-28: Data Science in Marketing and Consumer Behavior	32
TF-28: Methods for Learning from Data	24
TB-29: AI Approaches for Decision Making under Uncertainty	26
TC-29: AI and Big Data Analytics for Decision Making	22
TD-29: AI - Big Data for Decision Making	24
TE-29: Modeling Decisions with Artificial Intelligence	23
TF-29: DEA theory and methodological developments	19
TB-30: MILP for energy efficiency and sustainability	33
TC-30: OR in renewable energy	34
TD-30: MILP algorithms for routing problems II	39
TE-30: MILP in logistics	18
TF-30: MILP algorithms for graph coloring problems	16
TB-31: DSS Applications -4	20
TC-31: Decision Support Systems Applications - 1	21
TD-31: DSS Applications -3	19
TE-31: Game Theory and Operations Management 3	14
TF-31: Game Theory and Operations Management 2	9
TB-32: Decision aiding in resource allocation problems	27
TC-32: MCDM for project portfolio problems	36
TD-32: Trade-off between Economics and Environment: the response of cities in the shadow of COVID-19 1	21
TE-32: Trade-off between Economics and Environment: the response of cities in the shadow of COVID-19 2	18
TF-32: Trade-off between Economics and Environment: the response of cities in the shadow of COVID-19 3	6
TB-33: Local search and metaheuristics	40
TC-33: Business Analytics I	26
TD-33: Health Analytics	23
TE-33: Prescriptive Analytics and Machine Learning	23
TF-33: New frontiers in asset pricing	10

# Virtual Attendance Report

Tuesday, July 13

TB-34: Networks and Assignment problems: properties and applications	43
TC-34: Optimization Topics in Sustainable Logistics	36
TD-34: Discrete-continuous or stochastic control and optimization, and space-time design	33
TE-34: Combinatorial optimization for distribution and logistics I	43
TF-34: Optimization Advances with Quantum Applications II	13
TB-35: Topics in Combinatorial Optimization IV	10
TC-35: New tools in Insurance	12
TD-35: Pension risk management	16
TE-35: Game Theory, Solutions and Structures V	22
TF-35: OR and Analytics Education	7
TB-36: Asset Pricing and Portfolio management	25
TC-36: Dynamical Models in Sustainable Development II	19
TD-36: Dynamical Models in Sustainable Development I	16
TF-36: Credit Risk Management	11
TC-37: Ethics, health, medicine and food	11
TD-37: Digital Ethics & Governance	13
TE-37: Ethics, Societal Complexity and Governance	19
TF-37: Modelling the value of medicines, vaccines and social interventions to tackle infectious diseases 1	10
TB-38: Vaccine Supply Chains	25
TC-38: Dynamical Systems and Mathematical Modelling in OR 3	12
TD-38: Dynamical Systems and Mathematical Modelling in OR 2	14
TE-38: Partnerships in medical and pharmaceutical operations during the COVID-19 pandemic	16
TF-38: Health-care resource planning during pandemics and disasters	22
TB-39: Routing under uncertainty II	57
TC-39: Planning, scheduling and routing with exact methods	43
TD-39: Synchronized multi-stakeholder freight transportation systems	31
TE-39: Healthcare logistics	37
TF-39: Pickup and delivery problems	26
TB-40: Integrated scheduling problems	44
TC-40: Algorithms for shop scheduling problems	27
TD-40: Realistic production scheduling	32
TE-40: Mixed-Integer Programming for Resource-Constrained Project Scheduling	27
TF-40: Workforce Scheduling and Line Balancing 2	17
TB-41: Integrating planning problems	48
TC-41: Public Transport Timetabling	53
TD-41: Crew Planning & Covid	43
TE-41: Mobility Algorithms and Services	31
TF-41: Supply chain strategy II	17

# Virtual Attendance Report

Tuesday, July 13



TC-42: Decomposition Algorithms for MINLPs	20
TD-42: MDPs and related fields	15
TE-42: Computational Intelligence in Social Sciences	6
TF-42: Web Content and Behaviour	2
TB-43: Circularity in Supply Chains	40
TC-43: Urban and Sustainable Transport	46
TD-43: Circular Supply Chains	28
TE-43: OR in Sports	31
TF-43: Tournament design	14
TB-44: Machine learning and OR	48
TC-44: OR in the Cloud	151
TD-44: How OR became my business: OR users speak out	51
TE-44: Making it happen: ways of overcoming challenges of deployment	35
TF-44: Julia: OR v COVID in 5 minutes	30
TB-45: Application of OR for Embedded Systems	8
TC-45: OR in Manufacturing and Digital Twins 2	18
TD-45: OR in Manufacturing and Digital Twins 1	15
TE-45: OR in Natural Resources / Forestry	9
TF-45: OR in Agriculture	16
TB-46: Transportation in supply chains	21
TC-46: Supply chain strategy I	22
TD-46: SCM & mobile apps & platforms	21
TE-46: Data Envelopment Analysis	25
TF-46: Dynamic Pricing	19
TB-47: OR and Marketing Systems	14
TC-47: Customer Satisfaction & Loyalty	22
TD-47: Mixed-Integer Bilevel Optimization	47
TE-47: MINLP Software	40
TF-47: MINLP for Energy Networks	24

# Virtual Attendance Report

Tuesday, July 13



TB-48: Optimal Control in Environmental and Resource Economics	21
TC-48: Production planning and Lot-sizing	20
TD-48: Production planning and Lot-sizing	23
TE-48: Stochastic Lot-sizing	24
TF-48: Lot-sizing	13
TB-49: Production and Maintenance	12
TC-49: Policy-enabling models in the power sector (online)	14
TD-49: Expansion planning problems in renewable-dominated power systems (online)	21
TF-49: Queues, random walks and related models: Methods & Applications	15
TB-50: AI4RAILS III	34
TC-50: AI4RAILS IV	27
TD-50: AI4RAILS V	25
TF-50: Energy Services in Buildings and Communities	8
TB-51: Risk and resilience in sustainable supply chains	31
TC-51: Airport Capacity Management	20
TD-51: OR in Aviation 3	26
TE-51: OR in Aviation 2	20
TC-52: Supporting Sustainable Transitions	17
TD-52: Energy, Industry and Transport	23
TE-52: Addressing Uncertainty in Climate Policy	12
TF-52: Energy Policy, Economics and Markets	8
TD-53: Modelling tools	36
TE-53: Software for (M)NLP	31
TF-53: Modelling tools II	47
TD-54: Data Science and Analytics - Methodology II	22
TD-55: Data Science and Optimization	28
TE-55: Optimization Models for Machine Learning	26
TF-55: Better Decisions with Data II	24
TD-56: OR models and solutions to sustainability problems	25
TD-57: Local search and metaheuristics 2	20
TE-57: Heuristics and matheuristics	19
TD-58: COVID-19	25
TE-58: Optimization for Cancer Treatment	26
TF-58: Home Health Care	19

# Virtual Attendance Report

Tuesday, July 13



TD-59: OR for Sustainable Development Application	9
TE-59: OR for Development and Emerging or Developing Countries	7
TD-60: 1D cutting and packing problems	20
TE-60: Cutting and packing applications I	30
TF-60: Exact methods for cutting and packing problems	24
TD-61: Queueing Models in Service Operations	28
TE-61: Queues with Strategic Customers I	25
TF-61: Information Problems in Queues with Strategic Customers	20
TD-62: Judit Lienert	73
TE-62: Juan Miguel Morales González	54
TB-63: Last minute changes 3	24
TC-63: Last minute changes 4	30
TD-63: YoungWomen4OR - Supply Chain, Logistics and Decision Support	31
TE-63: YoungWomen4OR - Energy Optimisation	29
TF-63: YoungWomen4OR - Graphs, Networks and Transport	32



# Virtual Attendance Report

Wednesday, July 14



WA-1: New frontiers in risk management	367
WB-1: Queues with Strategic Customers II	132
WD-1: Georg Pflug	139
WE-1: Panel	201
WA-2: Multicriteria Decision Aid Applications	20
WB-2: MCDA Methods 1	22
WC-2: MCDA Methods 2	17
WD-2: Methodological developments in PROMETHEE methods	18
WA-3: Topics in Combinatorial Optimization III	32
WB-3: Machine Learning and Combinatorial Optimization II	35
WC-3: Combinatorial Optimization in Health and Social Care II	28
WD-3: OR Meets Computation 2	19
WA-4: Routing applications - onsite	37
WB-4: Maritime planning and logistics	31
WC-4: Queues with Strategic Customers III	21
WD-4: Complex routing and location problems I	24
WA-5: Public transport I	46
WB-5: Novel Methods in Optimization under Uncertainty	34
WC-5: Optimization under Uncertainty in Energy and Waste Management	24
WD-5: Pricing complex securities	16
WB-6: Public transport II	30
WC-6: Optimization in robotic warehouses II	11
WA-7: DEA applications in education	16
WB-7: Data Envelopment Analysis	20
WC-7: Cutting and packing applications II	24
WB-8: Initiatives in OR Education 2	13
WA-21: Use of Online Group Support Systems with Problem Structuring Methods	35
WB-21: Biases	47
WC-21: Uncertainty	36
WA-22: Rational inattention	16
WB-22: General papers	28
WC-22: Behaviour in newsvendor and dynamic decision making environments	9

# Virtual Attendance Report

Wednesday, July 14



WA-23: Quadratic Assignment and Layout Problems	9
WB-23: Advances in Energy Storage and Renewable Generation	21
WC-23: Expansion Problems in Energy Systems	18
WD-23: Optimization for Risk-Critical Engineering Applications	14
WA-24: Linear Programming and Large Scale Optimization	13
WB-24: Linear Programming	17
WC-24: DEA applications in education	16
WD-24: DEA applications to Sustainability and Development	26
WA-25: Applications of Robust and Stochastic Optimization	27
WB-25: Game Theory and Operations Management 1	26
WC-25: Multicriteria Group Decision Making	29
WD-25: Stochastic Programming in Healthcare	22
WA-26: Nonlinear Optimization Theory and Methods	19
WB-26: Sparse Optimization Theory and Methods	21
WC-26: Recent advances on preconditioning for PDE-Constrained optimization	20
WD-26: Fair Machine Learning	38
WA-27: Data Science and Analytics - Applications in Transportation	19
WB-27: Data Science and Analytics - Applications 2	18
WC-27: OR in RNA modeling	29
WD-27: Vehicle routing II	43
WA-28: Machine Learning and Optimization: new challenges, applications and objectives I	28
WB-28: The Role of Mathematical Optimization in Data Science III	36
WC-28: The Role of Mathematical Optimization in Data Science V	34
WD-28: The Role of Mathematical Optimization in Data Science II	39
WA-29: DSS - Applications - 2	16
WB-29: Group Decision Support Systems	25
WC-29: Autonomous vehicles, drones and robots in routing problems	36
WD-29: Network design and routing with logistics applications	32
WA-30: Mixed Integer Linear Programming for transportation problems II	28
WB-30: Recent advances in MILP algorithms	47
WC-30: Recent development in Mixed Integer Linear Programming	22
WD-30: Disaster and Crisis Management	26

# Virtual Attendance Report

Wednesday, July 14



WA-31: Scheduling and Networks	18
WB-31: Networks, Flows, and Applications	39
WC-31: Influence maximization in (social) networks	21
WD-31: Design and Analysis of Networks	18
WA-32: Urban and Territorial Planning in MCDA 2	10
WB-32: Urban and Territorial Planning in MCDA 3	20
WC-32: Urban and Territorial Planning in MCDA 4	15
WD-32: Robust ordinal regression	9
WA-33: Financial models	14
WB-33: Complex networks for finance	22
WC-33: Covid-19: Regimes, Contagion, Integration	18
WD-33: Advanced Disease Policy Modelling and Decision Support	15
WA-34: Integrated problem settings II	26
WB-34: (AIRO) Young Researchers in OR	50
WC-34: Vehicle Routing and Scheduling	47
WD-34: Multiobjective Combinatorial Optimization	36
WA-35: Initiatives in OR Education 1	11
WB-35: Optimization in robotic warehouses I	12
WD-35: Queues with Strategic Customers in Public Services	10
WA-36: Game Theory, Solutions and Structures VI	21
WB-36: Game Theory, Solutions, and Structures IV	26
WC-36: Game Theory, Solutions and Structures I	15
WD-36: Game Theory, Solutions and Structures III	18
WA-37: Modelling the value of medicines, vaccines and social interventions to tackle infectious diseases 2	4
WC-37: EJOR: policy, facts and highlights	69
WD-37: Routing problems with loading constraints	31
WA-38: Optimization Models in Humanitarian Logistics	28
WB-38: Equitable and sustainable Covid-19 vaccine distribution	28
WC-38: Coordination and Competition in Humanitarian Supply Chains	20
WD-38: Pricing, Delivery Time, and Competition	9
WA-39: Game Theory and Operations Management 4	12
WC-39: Emerging Research on Education, Competences and Labor Markets 2	7
WD-39: Emerging Research on Education, Competences and Labor Markets 1	8

# Virtual Attendance Report

Wednesday, July 14



WA-40: Miscellaneous scheduling problems	15
WC-40: Governance Analytics	12
WA-41: Warehousing and port terminal planning	24
WB-41: Inventory management	19
WC-41: OR Meets Computation 1	5
WA-42: New Problems and Methods in Epidemiology	17
WB-42: Banking risk Management II	15
WC-42: Banking risk management I	14
WD-42: Advances in Dynamic Programming	17
WA-43: Ranking in sports	23
WB-43: Sports scheduling	34
WC-43: Sports analytics	33
WB-44: Fast and furious: lightning talks	56
WC-44: Technique tasters	33
WA-45: Retail Inventory Management	16
WB-45: Online and Omnichannel Retailing I	27
WC-45: Forecasting and Pricing in Retail	25
WD-45: Covid-19 Pandemic in Retail & Mobility	20
WA-46: Capacity Allocation and Revenue Management	18
WB-46: Revenue Management and Pricing	20
WC-46: Pricing and Competition	19
WD-46: Supply-side Flexibility in Revenue Management	19
WA-47: Mixed-Integer equilibrium/complementarity problems	22
WB-47: MINLP Algorithms and Machine Learning	19
WD-47: MINLP Software and Algorithms	24
WA-48: Modeling of uncertainty in natural gas markets	10
WB-48: Emerging Aspects of Electric Transportation	18
WC-48: Modelling of Energy Markets	17
WA-49: Analysing Queues: Approximations, Data Modeling	14
WB-49: Multidimensional Queues	14
WC-49: Novel approaches for the performance analysis of queueing systems	17
WD-49: Applications of Queues	11

# Virtual Attendance Report

Wednesday, July 14



WA-50: Artificial Intelligence (AI) Research and Applications in Major Industries	12
WB-50: Decision Support for Intelligent Energy Management	16
WC-50: Algorithms in Nonlinear Optimization	8
WA-52: Financing Clean Energy	6
WA-53: Equilibrium and Optimal Strategies in Queues	14
WA-55: Data-driven decisions in OR	40
WB-55: Integrating machine learning in optimization methods I	61
WC-55: Better Decisions with Data I	38
WD-55: Integrating machine learning in optimization methods II	38
WA-58: Operating Room Planning and ICU Management	16
WB-58: Personnel scheduling in health care (2)	14
WA-60: 2D cutting and packing problems	22
WB-60: Real-world applications of cutting, packing and scheduling	12
WA-62: Mirjana Kljajić Borštnar	38
WB-62: Sırma Zeynep Alparslan- Gök	57
WC-62: Ruth Misener	66

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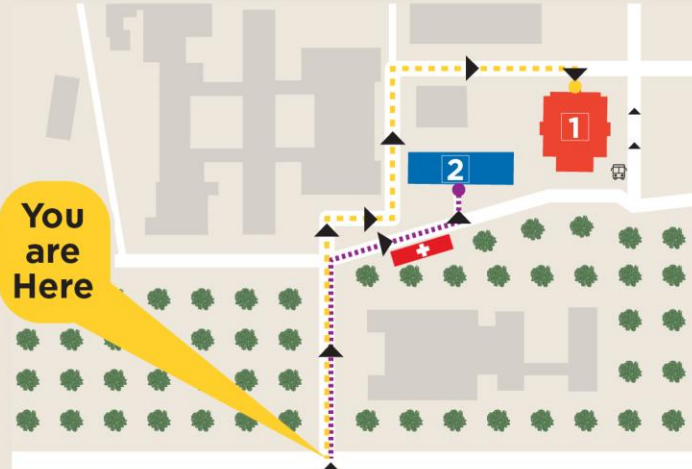


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July 11-14 UNIVERSITY OF WEST ATTICA

Venue | University of West Attica

# FLOORPLANS

## GENERAL FLOORPLAN



Entrance from Thivon str

### BUILDINGS

#### A 1

Registration Desk  
Amphitheatre  
Foyer  
Self Check In  
Room A5  
Room 3A  
Room 3B

#### Δ 2

Room Δ105  
Room Δ103  
Room Δ101  
Room Δ104  
Room Δ102  
Info Desk  
Rapid Tests



Medical Assistance



Bus stop 829

## 1 BUILDING A



- 1** Foyer
- 2** Amphitheatre
- Registration Desk
- Self Check In
- to Rooms A5, 3B
- to Room 3A
- WC

### LEVEL

#### 0

Registration Desk  
Amphitheatre  
Foyer  
Self Check In

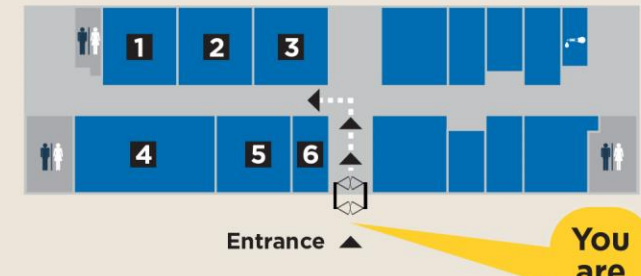
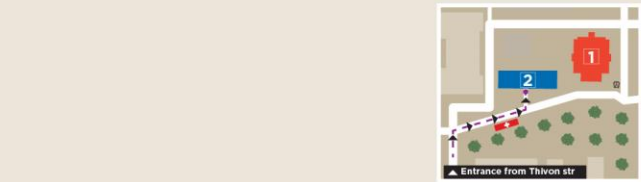
#### 1

Room A5

#### -2

Room 3A  
Room 3B

## 2 BUILDING Δ



- 1** Room 101
- 2** Room 103
- 3** Room 105
- 4** Room 102
- 5** Room 104
- 6** Info Desk
- Rapid Tests
- WC

### LEVEL

#### 0

Room Δ105  
Room Δ103  
Room Δ101  
Room Δ104  
Room Δ102

Info Desk  
Rapid Tests

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# Social Events





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# 31<sup>st</sup> European Conference On **Operational Research**

## Social Events

Welcome Reception

Date: Sunday, 11 July

Venue: University of West of Attica

Time: 19.00





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# 31<sup>st</sup> European Conference On **Operational Research**

## Social Events

Closing

Date: Wednesday, 14 July

Venue: University of West Attica

Time: 19.00





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# 31<sup>st</sup> European Conference On **Operational Research**

## Social Events

Conference Dinner

Date: Tuesday, 13 July

Venue: Ble Pavillion, Alimos

Participants: 160



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# Registration

## Fees & Entitlements

Registration Type	Physical attendance	Virtual attendance
Regular Early until May 9 <sup>th</sup> , 2021 (inclusive):	400 €	260 €
Regular Late until May 16 <sup>th</sup> , 2021 (inclusive, only authors):	500 €	325 €
Regular Late until June 20 <sup>th</sup> , 2021 (inclusive, just for attendants):	500 €	325 €
Student/Retired Early until May 9 <sup>th</sup> , 2021 (inclusive):	200 €	130 €
Student/Retired Late until May 16 <sup>th</sup> , 2021 (inclusive, only authors):	300 €	195 €
Student/Retired Late until June 20 <sup>th</sup> , 2021 (inclusive, just for Onsite attendants):	300 €	-
Student/Retired Late until July 11th-14th, 2021 (inclusive, just for Online attendants):	-	195 €
Accompanying persons:	120 €	-
Conference Dinner:	80 €	-

## Fees & Entitlements

### Physical attendance

The registration fee for a full delegate (Regular/Student/Retired) covered the following:

- Scientific program Attendance (in conjunction with the opportunity for “on demand attendance” of scientific sessions through the on-line platform).
- e-Conference materials (i.e. e-program, certificate).
- Networking opportunities (through Social Events attendance).
- Access to the online platform (access will be valid for an additional two months after the closure of the Conference).
- Coffee and Lunch Breaks.
- Admission to the Opening Cocktail | Admission to the Casual Closing Party

The accompanying person registration fee covered the following:

- Admission to the Opening Cocktail | Admission to the Casual Closing Party

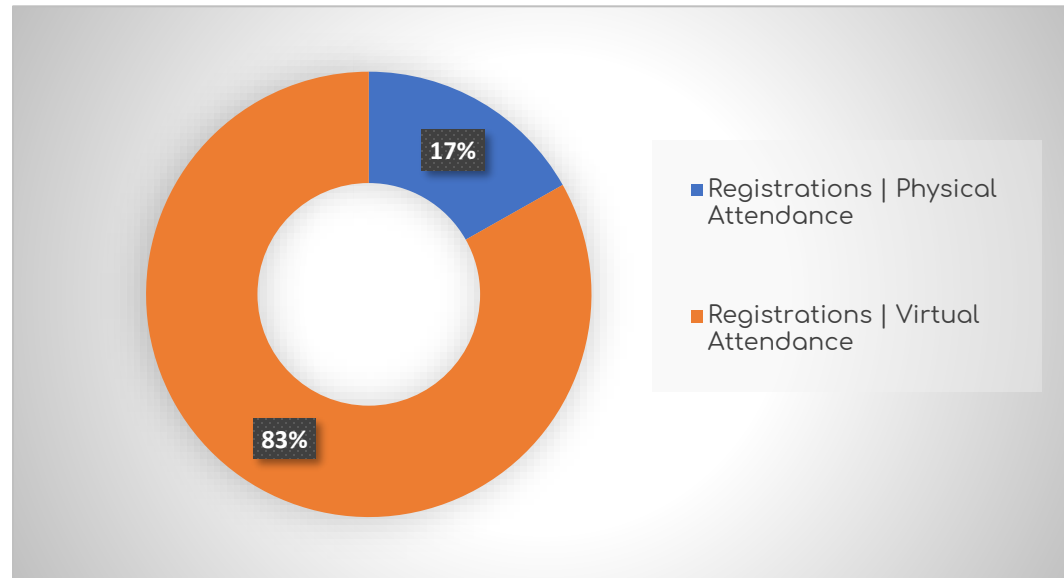
### Virtual attendance

The virtual registration fee for a full delegate (Regular/Student/Retired) covered the following:

- Scientific program attendance through the on line platform.
- e-Conference materials (i.e. e-program, certificate).
- Networking opportunities via Meeting Hub.
- Access to the online exhibition area.
- 2 months additional access to the online platform (this will be valid just after the closure of the Conference).

## Registrations

Registrations   Physical Attendance	355
Registrations   Virtual Attendance	1753
Total Registered Participants	2108



Date Registered	Registrations
March 2021	15
April 2021	429
May 2021	1533
June 2021	77
July	133



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## Registrations per Category

Registrations   Physical Attendance	
Registration Type	Number
Regular (Early fee registration)	144
Regular (Late fee registration)	37
Student (Early fee registration)	114
Retired (Early fee registration)	2
Student (Late fee registration)	25
Retired (Late fee registration)	1
EURO Executive Committee	4
EURO Gold Medalists	3
EURO Distinguished Service Award Laureates	1
EJOR Past Editors	0
EURO Retired Past Presidents	0
EURO EEPA and EDDA Jury Members	1
EURO Doctoral Dissertation Award 2021	0
EURO Excellence in Practice Award 2021	1
EURO Award for the Best EJOR Papers 2021	3
Accompanying Persons	5
Programme Committee Members	6
Organising Committee Members	5
Plenary & Keynote Speakers	3
<b>Total</b>	<b>355</b>



## Registrations per Category

Registrations   Virtual Attendance	
Registration Type	Number
Regular (Early)	775
Regular (Late)	202
Student (Early)	592
Retired (Early)	10
Student (Late)	89
Retired (Late)	4
EURO Executive Committee	7
EURO Gold Medalists	7
EURO Distinguished Service Award Laureates	2
EJOR Past Editors	4
EURO Retired Past Presidents	0
EURO EEPA and EDDA Jury Members	9
EURO Doctoral Dissertation Award 2021	4
EURO Excellence in Practice Award 2021	5
EURO Award for the Best EJOR Papers 2021	4
Programme Committee Members	9
Organising Committee Members	4
Plenary & Keynote Speakers	12
Sponsorship Complimentary Registrations	12
UNIWA Rector	1
Session Chair	1
<b>Total</b>	<b>1753</b>

## Registrations Per Country

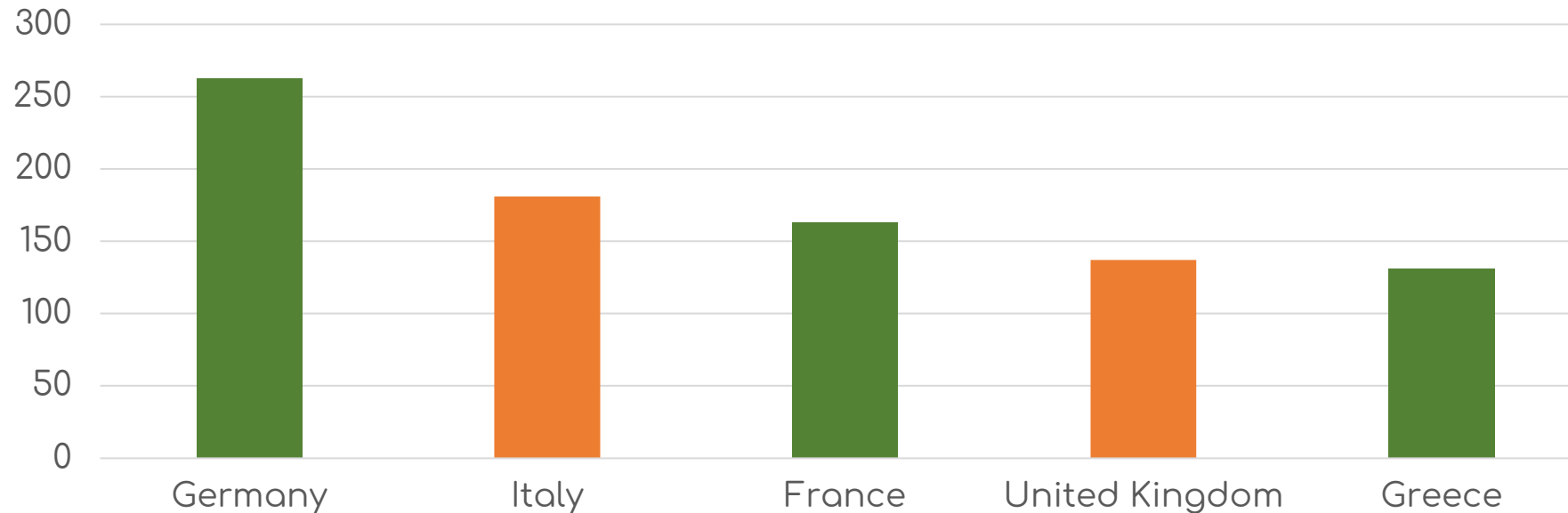
Germany	263
Italy	181
France	163
United Kingdom	137
United States of America	128
Greece	131
Spain	112
Belgium	101
Netherlands	92
Turkey	80
Portugal	55
Austria	52
Poland	49
Canada	45
Israel	41
Switzerland	36
Czech Republic	34
China	33
India	30
Brazil	29

Chile	27
Japan	26
Denmark	21
Norway	19
Finland	18
Korea, Republic of	17
Colombia	16
Ireland	16
Russian Federation	15
Serbia	12
Sweden	12
Mexico	11
Lithuania	10
Australia	9
Luxembourg	6
Singapore	6
Hungary	5
New Zealand	5
Slovenia	5
Morocco	4

Thailand	4
Tunisia	4
Cyprus	3
Ecuador	3
Iran, Islamic Republic of	3
Romania	3
Sri Lanka	3
Taiwan	3
Croatia	2
Hong Kong	2
Ukraine	2
Argentina	1
Egypt	1
French Polynesia	1
Iceland	1
Indonesia	1
Latvia	1
Lebanon	1
Macao	1
Nigeria	1
Peru	1
Philippines	1
Qatar	1
South Africa	1
Uruguay	1

## Top Registrations per Country

Countries with most registrations

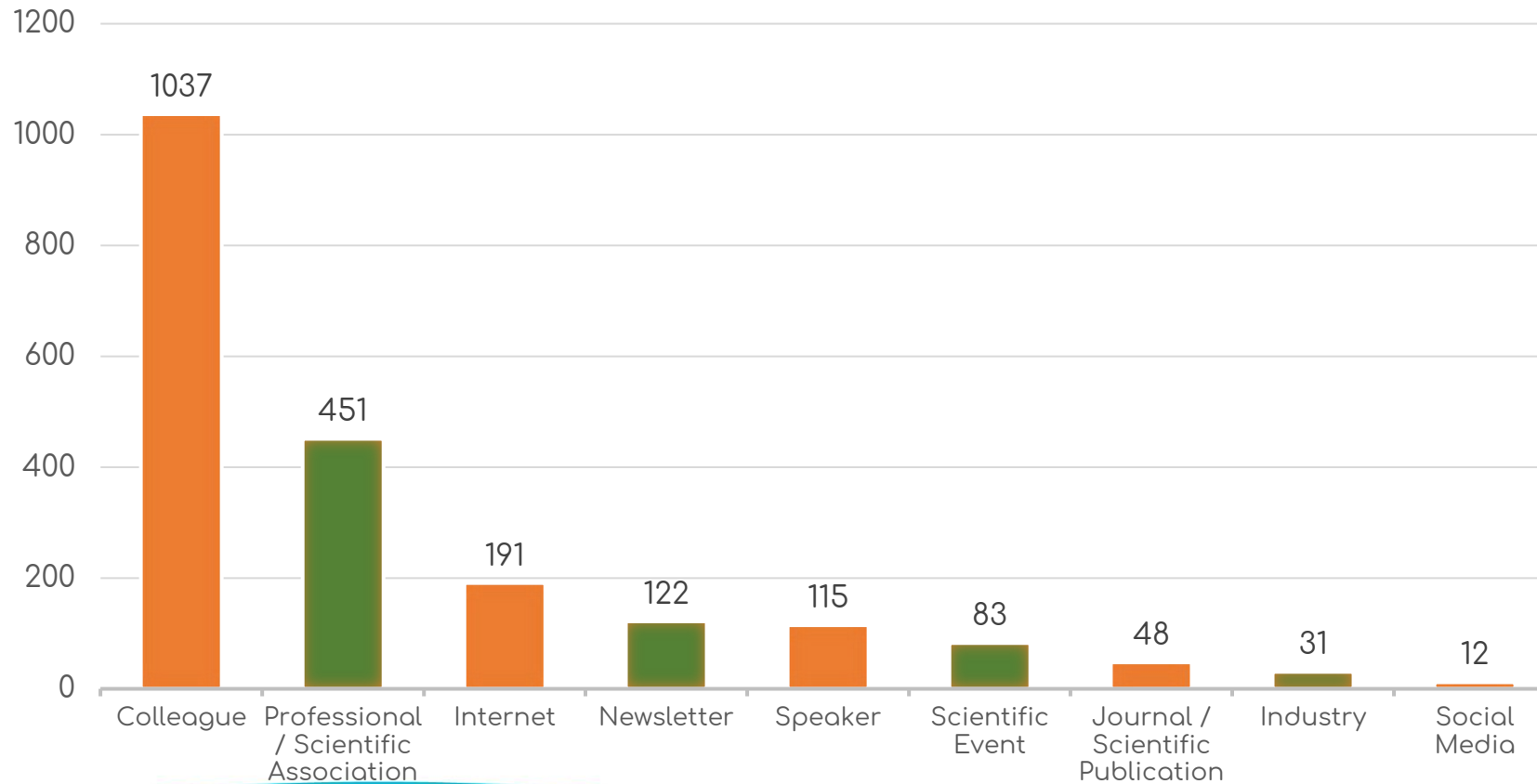




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# 31<sup>st</sup> European Conference On **Operational Research**

## How did you learn about the conference?



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On **Operational Research**

July 11-14 UNIVERSITY OF WEST ATTICA

# Conference Promotion/ Communication

A Communication Strategy Plan was drafted and submitted to the O.C., based on the following main axes of Promotion – Marketing & Communication:

- Conference official website
- Conference publication in related topic websites
- Newsletters release on regular basis
- Social Media campaign



# 31<sup>st</sup> European Conference On Operational Research

Actions

Date

Conference official website

11/9/2021

<https://euro2021athens.com/>

Total visits were 79,454 (36,228 unique visitors) on the website, between 1 Jul 2020 and 14 Jul 2021 during which:

- 47.95% visited the website directly
- 32.63% accessed the website through search engines
- 16.86% located the website through links from other websites and
- 2.56% from Social media





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## Official Web site | Countries with most views

United States	5099
Greece	2761
United Kingdom	2682
Germany	2354
France	1995
Netherlands	1757
Italy	1732
Turkey	1427
Spain	1188
Finland	1106





## Actions

Publication in related topic websites

University of Creta



Αρχή / Χρήσιμα /

### Νέα και Ανακοινώσεις

Ο καθηγητής Νικόλαος Ματσατσίνης έχει οριστεί co-chair στο συνέδριο EURO 2021 Athens

16/03/2021 | Νέα

που θα πραγματοποιηθεί στην Αθήνα, στις 11-14 Ιουλίου 2021

Η Ελληνική Εταιρία Επιχειρησιακών Ερευνών σε συνεργασία με την Association of European Operational Research Societies διοργανώνουν το συνέδριο EURO 2021 στην Αθήνα, στις 11-14 Ιουλίου 2021. Ο καθηγητής Νικόλαος Ματσατσίνης έχει οριστεί co-Chair της Οργανωτικής Επιτροπής του συνεδρίου.

Τα συνέδρια EURO είναι από τα πλέον γνωστά και μεγαλύτερα παγκοσμίως, προσελκύουν δε επιστήμονες από όλα τα μέρη του κόσμου ενώ σε αυτά συμμετέχουν περισσότεροι από 2000 σύνεδροι.

Ιστοσελίδα του συνεδρίου: <https://euro2021athens.com>



## Πολυτεχνείο Κρήτης: Ο καθηγητής Νικόλαος Ματσατσίνης co-chair στο συνέδριο EURO 2021 Athens

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## Dates

➤ 11/2/2021

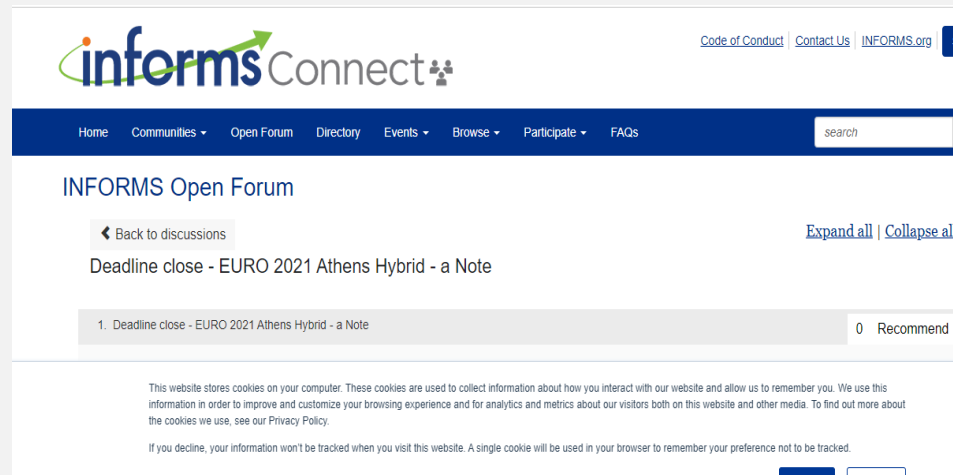
## Actions

Publication in related topic websites

## Dates

➤ 15/2/2021

informs.org



The screenshot shows the 'informs Connect' website. The main navigation bar includes 'Home', 'Communities', 'Open Forum', 'Directory', 'Events', 'Browse', 'Participate', and 'FAQs'. The current page is 'INFORMS Open Forum'. A post titled 'Deadline close - EURO 2021 Athens Hybrid - a Note' is visible, with a 'Recommend' button showing 0 recommendations. A cookie notice is at the bottom.

forestDSS



The screenshot shows the 'forestDSS' website, a 'Community of Practice Forest Management Decision Support Systems'. It features a 'Call for papers - EURO 2021' announcement. The text states: 'EURO 2021 is the largest and most important conference for Operational Research and Management Science (ORIMS) in Europe organized by EURO – the European Association of Operational Research Society and the Hellenic Operational Research Society (HELORS). The conference 31th European Conference on Operational Research (EURO XXXI), in Athens, Greece will be held at the University of West Attica (UNIWA) in Athens located in the area of the Holy Olive Grove 'Eleonas' of the ancient Athenians from July 11-14, 2021. Researchers, academics, practitioners, and students interested in any branch of Operational Research, mathematical modelling or economic analysis are invited to submit abstracts or organize sessions. Invited and contributed papers will be organized in parallel sessions. In general, sessions will be a part of the Conference streams, and streams are grouped in different areas. The list of areas and streams will be available shortly. Abstract submission system is available online, via the Conference web page (<https://euro2021athens.com/>).



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# 31<sup>st</sup> European Conference On Operational Research

Dates

## Actions

Publication in related topic websites

deazone.com

Webinar on "Data Envelopment Analysis" - November 4, 2020 01:00 PM (UK time) | Special Issue of Socio-Economic Planning Sciences: Methods and techniques for assessment of health care performance

### DEA in EURO2021 conference, Athens , July 11-14, 2021

By admin

EURO2021 Athens

31th EUROPEAN CONFERENCE ON OPERATIONAL RESEARCH

Abstract submission deadline: March 28, 2021  
Conference dates: July 11-14, 2021  
Conference website: <https://euro2021athens.com/>

Dear Colleagues,  
We are organizing the stream "Data Envelopment Analysis and Performance Measurement" at the upcoming EURO 2021 conference in Athens, July 11-14, 2021, that will take place in hybrid format.

Conference delegates will be able to choose, at the time of registration, whether they wish to participate virtually or physically attend the conference in Athens. Each timetabled session will be either virtual or

blogger

### Theory Announcements

THEORYNET, DMANET AND A FEW OTHER ANNOUNCEMENTS.

WEDNESDAY, MARCH 17, 2021

[DMANET] EURO 2021 Athens - 2nd call for the stream Lot Sizing, Lot Scheduling and Production Planning

Dear colleagues,

We are kindly inviting you to submit an abstract to the stream Lot Sizing, Lot Scheduling and Production Planning organized by the EURO Working Group on Lot Sizing (EWG LOT) at the

31th European Conference on Operational Research (EURO XXXI), July 11-14, 2021, Athens, Greece <<https://euro2021athens.com/>>

Note that the conference will take place in a hybrid format, where sessions will be on-line or on-site (with online streaming). At the time of registration, you need to decide in which form you will attend, but you may be contacted earlier by the stream organizers about your expected form. For now, one only needs to submit a short abstract, while participation fees can be paid later. Please forward this e-mail to anyone interested.

\*\*\*\*\*

20/2/2021



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## Actions

## Dates

- Newsletters release on regular basis

Welcome / Hybrid Conference Announcement	11/2/2021
Second Announcement   Call for Papers	12/3/2021
Call for Papers Deadline   On line Registration	24/3/2021
5 Days Left for Abstracts Submission Deadline  On line Registration	27/4/2021
Online Registration   2.000 Abstracts Submitted	3/6/2021
6 Days Left   Detailed Program	5/7/2021
Elsevier E-Blast	8/7/2021
1 Day Left	10/7/2021





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# 31<sup>st</sup> European Conference On Operational Research

Newsletter Vol.1



Hybrid Conference Announcement

**Dear Colleagues,**

The Organising Committee of EURO 2021 Athens, considering the general situation in the world caused by the COVID-19 but also the positive developments in the coming months and taking into account the health and safety of the participants, decided to transform the Conference in **HYBRID** (both physical and virtual attendance).

In this context, sessions will be created either with physical attendance or with virtual participation of the delegates. Also, when setting up the schedule, the allowed time slots of the participants will be considered, so that they take place at appropriate times, so that they can give the opportunity to the participants, the choice of how to participate in it. Thus, each participant can watch the live stream of the conference, according to the program, and decide how to participate later at the time of registration.

We will ensure both participation (physical and virtual) and you will be provided a calendar about the situation that will occur at the venue of the Conference. Our aim is to bring to you a high-standard scientific event, while ensuring the safe presentation of the final work of our members, which will not be affected by the pandemic.

On behalf of the Organising Committee, we would like to thank you for your understanding regarding this issue and your continuous support towards EURO 2021. In case you have any questions, please do not hesitate to contact us by email to [info@euro2021athens.org](mailto:info@euro2021athens.org).

Stay safe and healthy!

On behalf of the Organising Committee,  
**Professor Dr. Mihalis Mihalakis**  
EURO 2021 Athens Co-Chair



Submissions Deadline:  
February 28, 2020  
Have you prepared your Abstract yet? Time  
has got ready for the Submissions.  
[Submit Now](#)

Newsletter Vol.2



SECOND ANNOUNCEMENT AND CALL FOR PAPERS

In view of the current situation of the COVID-19 pandemic, EURO 2021 will be held as a hybrid conference with some sessions taking place on site in Athens, and some sessions that will be held online. An example session will follow next Tuesday (please do allow the date participants can still be available to promote participation, as the abstracts will be online, and those that are not online will be available to watch and the session of many to participate in a physical conference, providing a conference experience that makes an ideal opportunity to hold all previous years. A session of the online platform for virtual sessions will also be available at the conference website.

At the same time, responding to many authors requests regarding difficulties in meeting the revised deadline, and in order to give colleagues more time to submit their work, some sessions of both in-person and virtual attendance, will be prepared to postpone the submission of the abstract submission deadline until Sunday March 28, 2021.

#### CALL FOR PAPERS AND SESSIONS!

The Program Committee, chaired by Nadia Vassiliou, and the Organising Committee, co-chaired by Mihalis Mihalakis and John Mousouris, are seeking a high-quality scientific program and an exciting hybrid program for the Conference. Invited and contributed papers will be organized in parallel sessions. In general, sessions will be a part of the Conference's events, and sessions are grouped in different areas. The list of areas is available on the conference website, please visit the registration system: <https://euro2021athens.org/>

Research papers must be submitted as paper within an invited session should consider the session registration or by submitting the article by yourself (author identity using the session code). Abstracts can also be submitted as pre-accepted abstracts to an in-person session in a session. The price for about 75-125 pre-accepted sessions, which should focus on topics of more general interest, the majority of attendees will be online.

Abstract submission system is available online on the Conference web page: <https://euro2021athens.org/>. It is noted that the maximum number of participants that will be able to participate in person at the conference will be determined by the restrictions of the local conditions that will apply then. This number will be determined after the submission of abstracts and the decisions of the organizers of the participants to participate. There should be sessions in English and sessions in more than 1,000 languages in person and virtual (for the virtual and online).

#### PLENARY, KEYNOTE & TUTORIAL SPEAKERS:

The Organising Committee is pleased to announce that we will present the International in Operational Research and invited speakers of the future developments. Details for the invited speakers and the topics of their presentations can be found on the website: <https://euro2021athens.org/>

#### PUBLICATIONS

Participants will have the opportunity to submit their work in a journal of Special Issues that will be published on the Conference website. Details for the submission of the abstracts in the journal and Special Issues can be found on the website: <https://euro2021athens.org/>

KEY DATES AND DEADLINES

Newsletter Vol.3



ONLINE  
REGISTRATION  
IS NOW OPEN

REGISTER NOW

#Euro2021 #EuroAthens

We are delighted to announce that the 31st European Conference on Operational Research - EURO 2021 is now open for registration! As a Hybrid edition Conference we offer two attendance alternatives: in-person (physical) or virtual. Please read the Registration information provided in the link hereunder and select your preferred attendance format.

Registration Information

#### REGISTRATION FEES

Registration fees (including VAT) apply:

Registration type	On site	Online
Regular Early until May 2 <sup>nd</sup> , 2021 (inclusive):	400 €	280 €
Regular Late until May 9 <sup>th</sup> , 2021 (inclusive, only authors):	500 €	325 €
Regular Late until June 29 <sup>th</sup> , 2021 (inclusive, just for attendees):	500 €	325 €
Student/retired Early until May 2 <sup>nd</sup> , 2021 (inclusive):	200 €	130 €
Student/retired Late until May 9 <sup>th</sup> , 2021 (inclusive, only authors):	300 €	195 €
Student/retired Late until June 20 <sup>th</sup> , 2021 (inclusive, just for attendees):	300 €	195 €
Accompanying persons:	120 €	
Conference Dinner:	80 €	

#### Regulations for Participants

**Author registration:** For each accepted paper at least one registration from an author is required by May 16, and each participant may present one paper.



Submission Deadline:  
March 28, 2020

Have you prepared your Abstract yet? Time flies out



**EUROATHENS  
2021 GREECE**  
HYBRID

# 31<sup>st</sup> European Conference On Operational Research

Newsletter Vol.4



### EURO 2021 Athens: Call for Abstracts

We have the great pleasure of inviting you to take part in the 31<sup>st</sup> EURO Conference to be held in Athens. The location of submission is detailed in the Call for Abstracts.

We would like to inform you that the final deadline for submitting abstracts and registering are very close and are as follows:

Abstract submission deadline	02.05.2021
Authors early bird registration deadline	09.05.2021
Authors late registration deadline	18.05.2021

EURO 2021 will be held as a hybrid conference with some sessions taking place on-site in Athens, and some sessions that will be held online. All session contents will be made available online for those that cannot participate and will also be available to remote participants on the streams of a live-on platform.

For detailed information about EURO 2021, please visit the Conference webpage (<https://euro2021athens.com/>). For any further information, visit [info@euro2021athens.com](mailto:info@euro2021athens.com).

**Stavros Vassiliadis** Chair of Program Committee  
**Nikolaos Michailidis** Managing Committee Co-Chair  
**John Pournaras** Managing Committee Co-Chair

**ONLINE  
REGISTRATION**  
Have you Registered?

REGISTER NOW

Don't forget that - EURO 2021 is open for registration! As a Hybrid edition Conference we offer two attendance alternatives: in-person (physical) or virtual. Please read the Registration information provided in the link hereunder and select your preferred attendance format. [Read more here.](#)



Follow Euro2021

#Euro2021 | #Euro2021Athens | #OperationalResearch



Newsletter Vol.5



We are glad to announce that more than 2,000 abstracts have been submitted! Very interesting papers and researches are about to be presented during EURO 2021! It will definitely be a "not to miss" Event for Operational Research for 2021!

For detailed information about EURO 2021, please, visit the Conference webpage (<https://euro2021athens.com/>). For any further information: [info@euro2021athens.com](mailto:info@euro2021athens.com). We look forward to welcoming you to our very exciting conference in Athens!

**ONLINE  
REGISTRATION**

Have you Registered?

REGISTER NOW

Don't forget that - EURO 2021 is open for registration! As a Hybrid edition Conference we offer two attendance alternatives: in-person (physical) or virtual. Please read the Registration information provided in the link hereunder and select your preferred attendance format. [Read more here.](#)



Newsletter Vol.6



**DETAILED  
PROGRAMME**  
IS NOW AVAILABLE

SEE PROGRAMME HERE

We are happy to announce that the Detailed Programme is now available! 6 days remaining for the "not to miss" Event for Operational Research for 2021, EURO 2021 Hybrid!

We look forward welcoming you to our very exciting conference in Athens, if you attending physically or e-meet you if you attending virtually!

Don't forget that - EURO 2021 is still open for Virtual registration! Please read the Registration information provided in the link hereunder and select your preferred attendance format. [Read more here.](#)

### The Venue



The 31<sup>st</sup> European Conference on Operational Research will be held on the Campus 2 of the University of West Attica. The foundation of the newly established University came

## Newsletter Vol.7



Inspiring women in OR  
Women leaders in OR share their stories,  
views and advice

[Take me to the story](#)

We would like to introduce you to three women leaders in Operations Research – Professor Elise Miller-Hooks, Professor Grazia Speranza and Professor Claudia Archetti – and we thought you would be interested to read their stories.

Fewer than one in three researchers globally are women. While initiatives like the Sustainable Development Goals (SDGs) mean the gender gap is closing across the board, there is still work to be done in academia, including in operations research.

All three interviewees faced obstacles on their paths, but approached their careers with determination and optimism, which they are passing on to young women in the field.



Professor Elise Miller-Hooks



Professor Grazia Speranza



Professor Claudia Archetti

- Professor Elise Miller-Hooks, Editor-in-Chief, *Sustainability Analytics and Modeling* - read and/or listen to her story
- Professor Grazia Speranza, President, International Federation of Operational

## Newsletter Vol.8



**POPULAR  
SESSIONS**  
NOT TO BE MISSED!

[see the sessions here](#)

► 1 day left for EURO 2021 Hybrid | the 31st European Conference On Operational Research

We are all set and looking forward welcoming you to our very exciting conference in Athens, if you attending physically or virtually!

In this last Newsletter we have included all the important information that you will need during the Conference days. Through the link above, you can find the Detailed Programme and the Popular Sessions which we strongly recommend not to miss! Make sure you will make your plans in advance as the sessions are promising and plenty!

### Download the App



**EURO 2021 Mobile App!** The Official Mobile App for EURO2021 is now live! Keep control of the conference through your mobile device! Find all the information about the Program, the Social Events, the Venue and get notified when popular sessions are about to start through the APP.



# 31<sup>st</sup> European Conference On Operational Research

Actions

Dates

➤ Social Media campaign

15/2/2021



- 🐦
- # Explore
- ⚙️ Settings



EUROATHENS  
2021 GREECE



31<sup>st</sup> European Conference  
On **Operational Research**  
July 11-14 UNIVERSITY OF WEST ATTICA

# Sponsors – Supporters – Auspices



# 31<sup>st</sup> European Conference On **Operational Research**

## Sponsors





# 31<sup>st</sup> European Conference On **Operational Research**

Supporter



Under the auspices of



EURO ATHENS  
2021 GREECE



31<sup>st</sup> European Conference  
On **Operational Research**  
July 11-14 UNIVERSITY OF WEST ATTICA

# Digital App

EURO2021 conference app provided delegates with the most comfortable tool for planning their participation in the 31<sup>st</sup> European Conference on Operational Research.

The complete program was available directly from a phone or tablet and delegates were able to create their very own agenda on the fly. The app was available for Android, iOS and Windows Phone devices

Instructions were given for conference app downloading as follows:

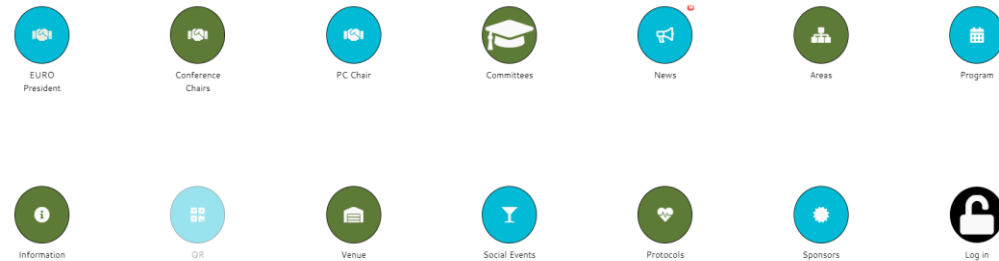
#### For Android devices

- Search for The Event App by EventsAIR on PlayStore.
- When you are prompted for a code upon launching the App, insert euro2021

#### For iOS devices

- Search for The Event App by EventsAIR on AppStore.
- When you are prompted for a code upon launching the App, insert euro2021

- 
- The App may be used without logging in.



EURO ATHENS  
2021 GREECE



31<sup>st</sup> European Conference  
On **Operational Research**  
July 11-14 UNIVERSITY OF WEST ATTICA

# Evaluation

Question	Answers %				
	Excellent	Good	Fairly good	Poor	Very poor
What was your overall impression of the event's program?	30,77	49,68	14,74	2,88	1,92
What was your overall impression of the event's organization?	38,14	41,35	13,14	4,81	2,56
Rate the Virtual Platform of the Conference	36,69	38,96	11,69	8,12	4,55
Rate the Meeting Hub Function	20,21	41,84	22,7	10,28	4,96
Rate the Conference venue	26,52	37,88	17,42	12,12	6,06
Rate the audiovisual support	47,1	36,96	7,97	5,8	2,17
Rate the food & beverages	15,65	28,7	25,22	16,52	13,91
Rate the Professional Conference Organizer (CONVIN)	34,18	49,09	14,55	2,18	0



**EUROATHENS**  
**2021 GREECE**  
HYBRID

# 31<sup>st</sup> European Conference On **Operational Research**

Question	Answers %				
	Disagree	I agree	I strongly agree	I strongly disagree	Neutral
The registration costs for attending the Conference were reasonable	22,12	27,24	8,65	9,94	32,05
Question	Answers %				
	Not at all	Not much	Somewhat	Undecided	Very much
Did the event fulfil your scientific goals and expected learning outcomes?	3,51	10,54	40,58	2,88	42,49
Was the presented information well balanced and consistently supported by a valid scientific evidence base?	1,29	2,89	28,62	7,72	59,49



Question	Answers %			
	Extremely useful	Fairly useful	Not useful	Useful
How useful for your professional activity did you find this event?	28,3	18,97	4,18	48,55

If this activity was not useful, please explain why:

A limited number of topics which were close to mine

At my section the chair was missing and I noticed many others missed their presentations.

Because I could follow the recent research on my topics

Currently I am working as a academic

Didn't really get to network because the conference was virtual

Few contacts with other researchers

I would love to attend more sessions but my time zone was 7 hours ahead. I would loved access to recorded sessions

Most of the EURO researches have another research focus

## What was the weakest aspect of this event?

most plenaries were not projected in the auditorium, why? public transport was not well connected to the venue, lunch was not great

attendees using a different system than speakers

Being at home without meeting colleagues. Online conferences are more work intensive

Being hybrid \ cannot see or communicate with other participants in a session \ Having only 20% of the attendees on site

Maybe, the fact that there were many interesting papers that I would like to attend, that happened to be presented at the same time. But I can see that this was inevitable.

That it was virtual and one did not know if any audience was present.

Delay between Zoom and on screen presentation (over 15 seconds!) | Zoom for presenters different from audience conference platform: no direct interaction with speakers possible.

The small number of "onsite" participants

Difficult to reach the venue. No place where to attend virtually on the venue

Emotional distance from the conference spirit.

Food & Location | I didn't like the standard of catering. Especially "lunch" was very, very poor

Many things happening at the same time, overlapping presentations

nothing really worth mentioning here

I didn't like the standard of catering. Especially "lunch" was very, very poor

I suppose the difficulty in getting to the venue at times (taxis not always aware of the location)

I would have appreciated to see how many people are attending a session - at least online

In my Presentation there were no questions about any topic. But there weren't any questions about any other presentations in my Session.

It was unfortunate that you could not see who attended the presentations. This did give the idea I was presenting for an empty audience.

it was very anonymous, for the presenters it would have been nicer to know who or at least how many were attending the talk

## What was the strongest aspect of this event?

The exchange with other researchers - The variety of interesting talks

A chance to learn about some activities and results.

A lot of talks, everything worked very smooth

All events on time. Professional Management.

All of it was excellent | The opportunity to learn about projects around the world

Being able to attend it physically | physical networking after 1,5 years of lockdown

Being together again after so long

Cannot think of any.

Catering was well-handled.

Organizers seemed really keen to ensure all was going well. They seemed to have put in a lot of effort.

Clear explanations of how the interface works in advance

communication | Conference Dinner ;)

Talks and plenaries | the virtual platform

The place, Athens

The virtual platform was of really good value for those not participating in person.

The organizers have been able to organize such an event in a very difficult situation worldwide.

Despite the pandemic, it was possible to take part physically in the event. This was a good networking occasion.

Easy interaction with other researchers

Everything was excellent.

Excellent discussions in some threads.

excellent program | Excellent Scientists in terms of OR. | The EEPA sessions

Thursday's dinner - a lot of conversations and discussions.

The possibility to do the rapid test for Covid | Finally going to a conference after covid

Having the conference in hybrid form

Great to be able to participate despite Covid, a hybrid event was a good idea

For an online conference, the event worked quite well.

Getting to meet the European Operational Research community.

Good choice of events.

Good conference | have the opportunity to attend in person

Good research, good ideas and discussions. | Good talks

EURO ATHENS  
2021 GREECE



31<sup>st</sup> European Conference  
On **Operational Research**

July 11-14 UNIVERSITY OF WEST ATTICA

# Virtual Platform Performance

## Access the virtual platform

Log in by entering email address, and either the password that delegates used during the registration or the personal PIN.



The screenshot shows the login interface for the 31<sup>st</sup> European Conference On Operational Research. The left side features a banner with the conference title, dates (July 11-14), and logos for EURO, HELORS, EEE, and the Professional Congress Organizer Convin. The right side contains a 'Sign In' form with the following elements:

- Sign In** header
- Email** field: fmlionis@convin.gr
- Password/PIN** field: masked with dots
- Enable Enhanced Accessibility** (keyboard navigation, focus highlight, screen reader compatibility and high contrast colors)
- Sign In** button
- [Forgotten your password/PIN?](#)



**EUROATHENS  
2021 GREECE**  
HYBRID

# 31<sup>st</sup> European Conference On **Operational Research**

## Scientific Program

All sessions were displayed in chronological order, based on the time zone selected in settings



The screenshot shows the conference website interface. At the top, there are logos for ELSEVIER, FICO, GUROBI OPTIMIZATION, and Health Data Science. Below the logos, there is a search bar and a 'Virtual Exhibition' button. The main content area displays a session schedule for July 12th, with sessions listed in chronological order. Each session entry includes a play button icon, the session name, and a 'View' button. The sessions are:

- Virtual Room 49 | July 12 | 10:00am - 4:00pm
- Virtual Room 50 | July 12 | 10:00am - 4:00pm
- Virtual Room 54 | July 12 | 10:00am - 2:00pm
- Virtual Room 53 | July 12 | 12:00pm - 4:00pm
- Virtual Room 63 | July 12 | 2:00pm - 7:00pm
- MG-44: Conversations and connections | 7:00pm - 8:00pm

On the right side of the interface, there is a 'Meeting Hub' button and a 'MORE INFORMATION' section with a 'Click on an event to learn more about it.' prompt. The background features a gear and clock icon.

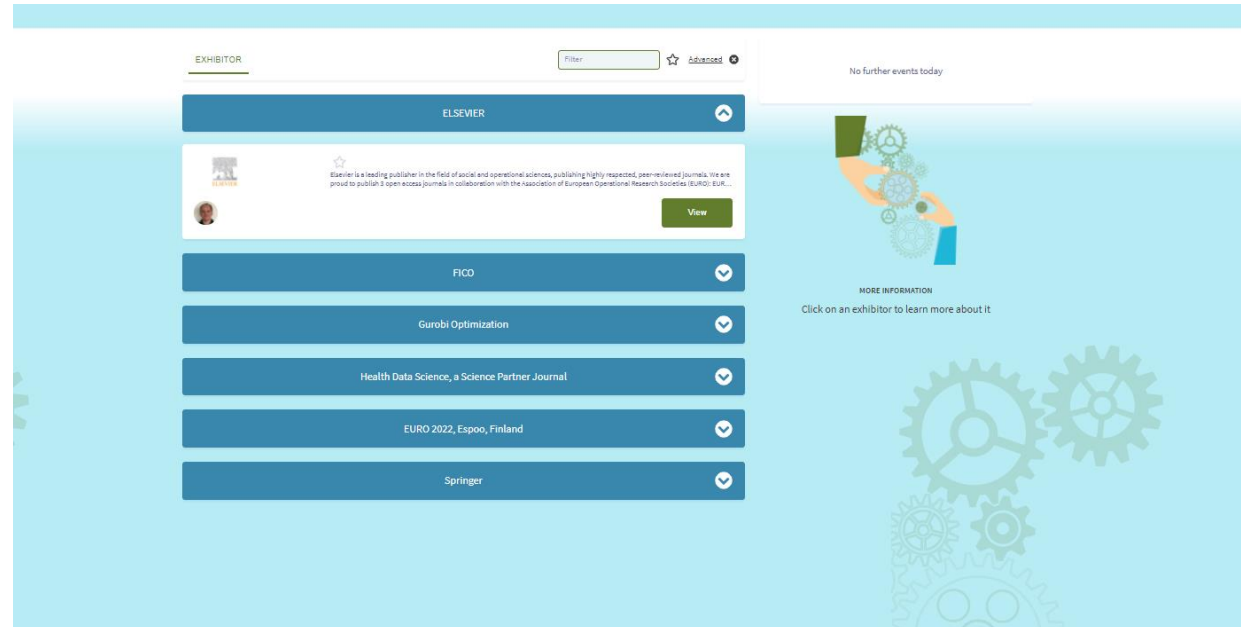


**EUROATHENS**  
**2021 GREECE**  
**HYBRID**

# 31<sup>st</sup> European Conference On **Operational Research**

## Virtual Exhibition

The Virtual Platform featured an Exhibition Area, where companies displayed their material and had live meetings with interested attendees



## Meeting Hub

The Meeting Hub was a very powerful feature that attendees used to communicate with each other

**ATTENDEES**

Filter on name or organization   ONLINE NOW Advanced

	Erasmus University VIRTUAL ATTENDEE
	Gad Allon Professor University Of Pennsylvania VIRTUAL ATTENDEE
	Christian Almeder Professor for Supply Chain Management European University Viadrina Frankfurt(Oder) VIRTUAL ATTENDEE
	Teresa Alonso Associate Professor University Of Castilla-la Mancha VIRTUAL ATTENDEE
	Sirma Zeynep Alparslan Gök Faculty Academic Member Sakarya Demiri University REMOTE SPEAKER
	F Tevhide Altekin Assistant Professor Of Operations Management Sabanci University VIRTUAL ATTENDEE
	Charity Delmus Alupo PhD Student University College Dublin VIRTUAL ATTENDEE
	Abraham Alvarez Bustos Power System Researcher Invenia Labs PHYSICAL ATTENDEE
	María José Alvarez Gil Chair In Operations Management

**CONNECTIONS**

PENDING

**INVITATIONS**

**MEETING HUB**  
Click on another attendee to connect with them.

Once you're connected, you can engage in live chat, calls, schedule meetings, send messages and make notes.  
The contact details and your notes can be exported via the Export Tool next to your Profile button at the top right.





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31<sup>st</sup> European Conference  
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# Conference Ballance

## Registrations

Registrations   Physical Attendance			
Registration Type	Number	Reg. Fee (€)	Total
Regular (early)	144	400,00 €	57.600,00 €
Regular (late)	37	500,00 €	18.500,00 €
Retired (Early)	2	200,00 €	400,00 €
Retired (Late)	1	300,00 €	300,00 €
Student (Early)	114	200,00 €	22.800,00 €
Student (Late)	25	300,00 €	7.500,00 €
EURO Executive Committee	4	400,00 €	1.600,00 €
EURO Gold Medalists	3	400,00 €	1.200,00 €
EURO Distinguished Service Award Laureates	1	400,00 €	400,00 €
EJOR Past Editors	0	400,00 €	0,00 €
EURO Retired Past Presidents	0	400,00 €	0,00 €
EURO EEPa and EDDA Jury Members	1	400,00 €	400,00 €
EURO Doctoral Dissertation Award 2021	0	400,00 €	0,00 €
EURO Excellence in Practice Award 2021	1	400,00 €	400,00 €
EURO Award for the Best EJOR Papers 2021	3	400,00 €	1.200,00 €
Accompanying Persons	5	120,00 €	600,00 €
Complimentary registrations			
<i>Programme Committee Members</i>	6	0,00 €	0,00 €
<i>Organising Committee Members</i>	5	0,00 €	0,00 €
<i>Plenary &amp; Keynote Speakers</i>	3	0,00 €	0,00 €
<b>Total Registered Participants</b>	<b>355</b>		<b>112.900,00 €</b>

Registrations   Virtual Attendance			
Registration Type	Number	Reg. Fee (€)	Total
Regular (early)	775	260,00 €	201.500,00 €
Regular (late)	202	325,00 €	65.650,00 €
Student (Early)	592	130,00 €	76.960,00 €
Student (late)	89	195,00 €	17.355,00 €
Retired (Early)	10	130,00 €	1.300,00 €
Retired (late)	4	195,00 €	780,00 €
EURO Executive Committee	7	260,00 €	1.820,00 €
EURO Gold Medalists	7	260,00 €	1.820,00 €
EURO Distinguished Service Award Laureates	2	260,00 €	520,00 €
EJOR Past Editors	4	260,00 €	1.040,00 €
EURO Retired Past Presidents	0	260,00 €	0,00 €
EURO EEPa and EDDA Jury Members	9	260,00 €	2.340,00 €
EURO Doctoral Dissertation Award 2021	4	260,00 €	1.040,00 €
EURO Excellence in Practice Award 2021	5	260,00 €	1.300,00 €
EURO Award for the Best EJOR Papers 2021	4	260,00 €	1.040,00 €
<i>Complimentary registrations</i>			
<i>Programme Committee Members</i>	9	0,00 €	0,00 €
<i>Organising Committee Members</i>	4	0,00 €	0,00 €
<i>Plenary &amp; Keynote Speakers</i>	12	0,00 €	0,00 €
<i>Sponsorship Complimentary Registrations</i>	12	0,00 €	0,00 €
<i>UNIWA Rector</i>	1	0,00 €	0,00 €
<i>Session Chair</i>	1	0,00 €	0,00 €
<b>Total Registered Participants</b>	<b>1753</b>		<b>374.465,00 €</b>
		<b>VAT Included 24%</b>	<b>72.477,10 €</b>
		<b>Final income from registrations (VAT Excluded)</b>	<b>301.987,90 €</b>



# 31<sup>st</sup> European Conference On **Operational Research**

## Sponsors

Exhibition & Sponsorship	
FICO	3.500,00 €
Elsevier	5.680,00 €
Springer	600,00 €
GUROBI	2.500,00 €
AAAS org	1.800,00 €
<b>Total Exhibition &amp; Sponsorship</b>	<b>14.080,00 €</b>

## Expenses

Expenses	
01 - Conference Centre Rental	10.000,00 €
02 - Conference Materials	6.602,38 €
03 - Marketing and Promotion Activities	8.419,51 €
04 - Software & Technical Equipment in various Conference Areas	6.088,40 €
05 - Audiovisual Equipment (Conference Halls)	65.724,00 €
06 - Invited Speakers/ VIPs/Committee Meetings	4.471,15 €
07 - Catering Services & Social Activities	21.739,50 €
08 - Constructions & Signage	10.967,80 €
09 - Manpower on site	9.820,80 €
10 - Organisational & Secretariat costs	16.825,30 €
11 - Insurance	0,00 €
12 - HYBRID performance (Virtual Format)	34.710,00 €
13 - PCO Fees	91.541,30 €
14 - EURO Remuneration	32.630,00 €
15 - Financial Administration & Contingent Expenses	9.644,04 €
EURO support (weak currency countries)	1.825,00 €
Reimbursement of the difference (EURO loan - EURO support)	8.175,00 €
<b>Final expenses (VAT Included)</b>	<b>339.184,18 €</b>

## Final

Total Registered Participants	2.108		487.365,00 €
		VAT Included 24%	72.477,10 €
		Final income from registrations (VAT Excluded)	414.887,90 €
Total Exhibition & Sponsorship			14.080,00 €
Support			
EURO loan (to be transformed in EURO support)		weak currency countries	10.000,00 €

Final income (VAT Excluded) 438.967,90 €

Final expenses (VAT Included) 339.184,18 €

Profit 99.783,72 €

EUROATHENS  
2021 GREECE



31<sup>st</sup> European Conference  
On **Operational Research**  
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# Strategies



# We think green

## Strategies for reducing or minimizing the ecological footprint of the conference:

- > Stiff cardboard name badges with no plastic pockets
- > We use a mobile app in lieu of a printed program.
- > All communications with speakers, sponsors, and the hotels are electronic.
- > Conference registration is entirely online, and confirmations are electronic.
- > No tote bags or giveaways will be distributed.
- > Metal water container for all the delegates which can fill at the water stations available in various conference areas.
- > All necessary printing was done on sustainably sourced paper
- > The green policy of UNIWA
  - >> Highly energy efficient LED luminaires for interior lighting
  - >> Several Photovoltaic systems are installed
  - >> Insulation of the roofs of buildings and installation of green roofs.
- >> Installation of shading devices (electric shading systems, glass made facades with adjustable blinds) for shading the southern glass surfaces of buildings.
- >> Classic dome skylights for natural lighting.
- >> Cogeneration Power Station
- >> Zero Emission Vehicles Policy on Campus
- >> Program to Reduce the Use of Paper and Plastic on Campus
- >> Organic and Inorganic waste treatment
- >> Recycling program in cooperation with the Attica Region





# Convin Team

Georgia  
Alkis  
Filippos  
Harris  
Tonia  
Georgia  
Katerina  
Vicky  
Vaso  
Zois  
Nondas  
Eva  
Giannis  
Aggeliki  
Niki  
Nikos  
Liana  
Dimitris  
Kostas  
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