



ICQIS ²⁰/₂₀ INTERNATIONAL
CONFERENCE ON QUALITY
INNOVATION AND SUSTAINABILITY

Quick reference guide

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November 19-20, 2020

Contents

About this guide	1
General information	2
Sessions guide and etiquette	3

About this guide

This is a quick reference guide to help conference participants to:

- find sessions quickly
- know the general session rules and etiquette for participants
- know the rules of presentations for authors

We hope this is a useful tool for you.

Yours sincerely,
The conference chairs.

General information

- Sessions will take place in the Zoom platform <https://zoom.us/>. You are advised to download and install the desktop app for a better experience.
- You should be at each session at least 5 minutes before its scheduled time. This will contribute to the overall time efficiency.
- The usage of a headset, as opposed to the computer microphone and speakers, is strongly recommended. This will improve sound quality and reduce ambient noise.
- Using the camera is recommended whenever possible, to improve the experience of the sessions, as it entails a closer relation between speakers and participants. The chair may request you to turn your camera on or off, if deemed necessary.
- Authors should test their presentations thoroughly in advance, to identify any issues. Contact us in case you need extra help on this.

Sessions guide and etiquette

Sessions are accessed through their Zoom ID. This information is displayed on the detailed sessions guide (see next pages). Plenary sessions (including the opening ceremony) as well as topic sessions use the same basic rules. Sessions start with a brief summary of the presentations scheduled for that session and procedures. For reference, the following guidelines should be observed.

Audience Upon entry on each session, participants should keep their sound muted. During the questions period, following each presentation, they may turn on their sound in case they need to pose a question.

Presenters Except for Plenary sessions, presentations should be setup for 10 min, plus 5 min for questions. The session chair will advise of excessive time usage and may interrupt the presentation if the author does not respond.

Questions At the end of each presentation there is a 5 min period for questions. This period may be extended, if deemed relevant by the session chair. Questions are to be placed using the chat feature on Zoom. Participants place a question in the chat window, or they manifest the intention of placing a question. The session chair reads each question to the presenter, or directs the participant to place his question, depending on the case.

Poster session Posters accepted for the conference will be available at the website. Participants are invited to view posters during the conference, but there is a period reserved for contact with poster authors. This session (poster session) works differently from the other sessions. Participants should use the chat window on the Zoom session as a means to contact authors and place questions.

Sessions guide and etiquette

2nd International Conference on Innovation, Quality and Sustainability – ICQIS2020

General Program

Time	Wednesday - 18th November 2020
14:00 17:00	Registration Technical support Presentation tests Zoom ID: 86119842996

Time	Day 1 – Thursday - 19th November 2020
8:30	Registration
9:00	Opening Ceremony
9:30	Keynote Lecture <i>The challenges of innovation in developing countries</i> Gilberto Santos (Mech. Eng; MSc; PhD; DSc) Prof. Polyt. Inst. Cavado Ave. Zoom ID: 845 7062 3721
10:00	Coffee Break
11:00	Session D1.M1 - INNOVATION: Advanced Materials and Processes I
12:30	Lunch
14:00	Keynote Lecture <i>Sustainability Knowledge Development in the Quality Engineering and Material Engineering Higher Education Study Programmes Affected by Industry Needs and the Covid-19 Pandemic Situation</i> Kristina Zgodavova Zoom ID: 845 7062 3721
14:30	Session D1.A1 - INNOVATION: Data Management and Industry 4.0 Session D1.A2- SUSTAINABILITY: Waste Management and disposal and Strategies and management of resources
16:00	Coffee Break
16:30	Session D1.A3 - QUALITY: Quality Management Systems and Risk Management Session D1.A4 - INNOVATION: Advanced Materials and Processes II
17:45	Poster Session Zoom ID: 88570366368
18:30	Closing

Time	Day 2 – Friday - 20th November 2020
8:30	Registration
9:00	Keynote Lecture <i>How can industrial businesses of all sizes create value and resilience guided by Sustainability</i> António Vasconcelos Zoom ID: 851 8896 4370
9:30	Session D2.M1 - QUALITY: Lean and Six Sigma Session D2.M2 - QUALITY: Problem Solving Methodologies and Improvement I
10:30	Coffee Break
11:00	Session D2.M3 – SUSTAINABILITY: Circular Economy and Life cycle costing Session D2.M4 - QUALITY: Problem Solving Methodologies and Improvement II
12:30	Lunch
14:00	Session D2.A1 – QUALITY: Lean and Six Sigma and Problem Solving Methodologies and Improvement
16:00	Coffee Break
17:00	Closing

Sessions guide and etiquette

2nd International Conference on Innovation, Quality and Sustainability – ICQIS2020 Detailed Sessions Program

Day 1 – Thursday - 19th November 2020

Session D1.M1 INNOVATION: Advanced Materials and Processes I | Zoom ID: 86707469408

Authors	Title	ID
Sara Valvez, Mário Pereira and Paulo Reis	3D printing of biodegradable materials	D1.M1.1
João Miguel Parente and Paulo Reis	Graphene and the fourth industrial revolution	D1.M1.2
Joao Matias and Pedro Martinho	Alternative injection moulding technologies to produce plastic parts	D1.M1.3
Tomás Archer de Carvalho, Florindo Gaspar, Artur Mateus and Ana Marques	3D printing with geopolymer cement: a review on material properties and system requirements	D1.M1.4
Francisco Miguel Quaresma Ramalho, Anabela Paiva Massano, Filipe Castanheira Jorge and Artur Jorge Mateus	Sustainable additive manufacturing of large parts using recycled tyre composites	D1.M1.5

Session D1.A1 INNOVATION: Data Management and Industry 4.0 | Zoom ID: 88544558411

Authors	Title	ID
Adriana V. Carvalho, Chouchene Amal, Tânia M. Lima and Fernando Charrua-Santos	Challenges of Quality 4.0 in Industry 4.0	D1.A1.1
Wladimir Motta, Sérgio Fandiño and Úrsula Maruyama	Industry 4.0: environmental aspects	D1.A1.2
Jorge Siopa	Potential of Cox Proportional Hazard Model in Industry 4.0 Data Management	D1.A1.3
Bruno Santos, Vítor Ferreira and Henrique Carvalho	Return on Investment in 4.0 Industry	D1.A1.4
Sara Valvez and Paulo Reis	4D printing versus industry 4.0	D1.A1.5
João Costa, Filipe Alves and Paulo Ávila	Sustainability and Productivity enhancement with Overall Equipment Effectiveness improvements using Industry 4.0 solutions and data digitization technologies	D1.A1.6

Session D1.A2 SUSTAINABILITY: Waste Management and disposal AND Strategies and management of resources | Zoom ID: 85421768863

Authors	Title	ID
Maria Cecília Vertulli Carneiro and Luiz Felipe Guanaes Rego	Composting of garden waste in an urban area: an experiment at PUC-Rio campus	D1.A2.1
Michael Vieira and Galvão Ramos	The impact of congestion on vehicle routing for urban logistics	D1.A2.2
Ouníria Santos, Helena Pala D. Sousa and Judite Vieira	Use of domestic wastewater for production of lettuce grown in a hydroponic system	D1.A2.3
Pedro Teixeira, José Carlos de Sá, Francisco J.G. Silva, Luís P. Ferreira and Pedro Fontoura	Lean, green and sustainability: a bibliometric analysis	D1.A2.4
Sarah Beatriz Gruetzmacher, Clara Bento Vaz and Angela Ferreira	Assessment of the transport sustainability performance in the European Union countries	D1.A2.5
Vinícius de Moraes Oliveira, Maximilian Expuny, Vítor Homem de Mello Santos, José Salvador Mota Reis, Neto Sergio Tenório dos Santos, Manuel Ferreira Rebelo and Otávio José de Oliveira	Risk analysis as a key tool for environmental balance: an overview of their publications and the main groups identified	D1.A2.6

Session D1.A3 QUALITY: Quality Management Systems AND Risk Management | Zoom ID: 83330392345

Authors	Title	ID
Luis Abreu and Jorge Almeida	Customer Satisfaction Based on SERVQUAL Model – Case Study	D1.A3.1
Vitor Anes, Pedro Marques, António Abreu and Ricardo Santos	A Structured Approach to Risk Management in Agile	D1.A3.2
Subrata Talapatra, Gilberto Santos and Anindya Gaine	Analysis of Factors Affecting Customer Satisfaction in Restaurants: an ISM Approach.	D1.A3.3
Genett Isabel Jimenez Delgado and Gilberto Santos	Evaluation of Maturity in Integration of Management Systems in Second Party Logistic Providers: A Hybrid Approach using Fuzzy AHP-TOPSIS and Multivariate Analysis	D1.A3.4
Hugo Silva, Mariana Costa, Maria Aguilera, Maria Almeida, Bernardo Fonseca, Nilo Sampaio, José Reis, Luís César Barbosa and Gilberto Santos	Quality Improvement Vehicle Painting Process with the Support of Statistical Control Tools	D1.A3.5

Session D1.A4 INNOVATION: Advanced Materials and Processes II | Zoom ID: 82898611273

Authors	Title	ID
Sara Guerreiro, Juliana Dias, Fábio Gameiro, Vicente Caneiro, João Reboleira, Mariana Andrade, Pedro Adão, Susana Mendes, Rui Ganhão, Susana Bernardino, Fernanda Vilarinho, Ana Sanches-Silva, Nuno Alves and Artur Mateus	Polypropylene films coated with electrospun nanofibers of porphyrin diocia/gelatin/PVA for food packaging applications	D1.A4.1
Enio Henrique Pires da Silva, Romeu Rony Cavalcante da Costa, Marcelo Leite Ribeiro and Volnei Tita	Synthesis and Tensile Evaluation of a Bio-based Polyurethane Foam with Different Mass Fractions of Aluminum Hydroxide	D1.A4.2
Luiz Fernando Fonseca, Diogo Neto, Paula Faria and Nuno Alves	Innovation in Powder-based Additive Manufacturing through Numerical Modelling	D1.A4.3
Artur Mateus and António Mário	Direct digital manufacturing for sustainability	D1.A4.4
Mário Pereira, Miguel Silva, Fernando Antunes and Nuno Alves	Innovative and Sustainable Methodology to Produce Functionally Graduated Adhesive Joints (FGAJ) by Direct Digital Manufacturing (FDD)	D1.A4.5
Mário Pereira, Luiz Fonseca, Paulo Reis and Nuno Alves	The Optimization of Fused Deposition Modelling process for PLA using Design of Experiments	D1.A4.6

Sessions guide and etiquette

Poster Session Zoom ID: 88570366368		
Authors	Title	ID
Tiago Ferreira, Carlos Neves and Fábio Simões	Automatic Volume Inspection for Glass Blow Moulds	D1.P1.1
Tiago Pinho, Ricardo Lavado, Sandra Nunes and José Domingos	Portuguese Logistics Operators: the path to recovery	D1.P1.2
Sidarta Suteja	Design Thinking Approach Towards Sustainable Design: An Innovative Interior Elements Made With Byproducts of Teak Wood Industries	D1.P1.3
Micael Frias Borges, Diogo M. Neto, Fernando Antunes and Mário Pereira	Improving design against fatigue crack growth	D1.P1.4
João Afonso Lupi de Caldeira, Fábio Simões and Artur Mateus	Large scale Binder jet printing using waste materials	D1.P1.5
Mercedes Domingues, Mário Pereira and Gilberto Vaz	Decision rules and statements of conformity in ISO/IEC 17025:2017	D1.P1.6
Bruno F. Kuester Berto, Thaís Vieira Nunes, Thalita L. Reis Campos, Gilberto Santos and Otávio José de Oliveira	Generating Value from Corporate Sustainability: Lessons from a Multinational Consumer Goods Company Operating in the Brazilian Market	D1.P1.7
Rafael M. Tavares, Artur Jorge Dos Santos Mateus and Fábio Simões	Expanding the limits of Design by Powder Bed AM based on DSPD	D1.P1.8

Day 2 – Friday - 20th November 2020

Session D2.M1 QUALITY: Lean and Six Sigma Zoom ID: 83872946596		
Authors	Title	ID
Eduardo Martins and Manuel Lopes	Porto Wine Production Process Improvement Through Design Of Experiments	D2.M1.1
Joana Portela and Manuel Lopes	A decision support simulation tool for Demand-Driven Material Requirements Planning	D2.M1.2
Bruna Costa, José Carlos de Sá, Luis Pinto Ferreira, Manuel Pereira Lopes, Francisco J.G. Silva and António M. Pereira	Implementation of Lean tools in Internal Logistic	D2.M1.3
Mónica Sousa, José Carlos de Sá and Luís Barreto	Six Sigma application for Process Improvement	D2.M1.4
Sandra Barros, Gabriela Fernandes and Cristóvão Silva	Improvement of the Transport Management Process: A Case Study	D2.M1.5

Session D2.M2 QUALITY: Problem Solving Methodologies and Improvement I Zoom ID: 86111179433		
Authors	Title	ID
Ana Pimenta, Delfina Gabriela Ramos and Gilberto Santos	Society 5.0 - A Future That Involves Quality Of Life And Safety In Developed Countries	D2.M2.1
Subrata Talapatra, Gilberto Santos and Anindya Gain	Analysis of Factors Affecting Aquaculture in Biofloc Technology: an ISM Approach	D2.M2.2
Tiago Santos, Mário Pereira and Pedro Martinho	The Effect of Masterbatch Addition on the Mechanical Properties of Linear Low-density Polyethylene (LLDPE)	D2.M2.3
Miguel R. Silva, Mário Pereira, Álvaro M. Sampaio and António J. Pontes	Evaluation of Dimensional and Geometric Tolerance of Hexahedral Microstructures - Produced by Polyjet Objet500™	D2.M2.4

Session D2.M3 SUSTAINABILITY: Circular Economy and Life cycle costing Zoom ID: 81928844838		
Authors	Title	ID
Andreia Mingote, Tânia M. Lima and Susana Garrido	Proposal for a Sharing Economy Development Centre for the Textile and Clothing Industry	D2.M3.1
Laura Leite, Tânia M. Lima, Paulo N. B. Reis and António M. Pereira	The waste flow challenge of wind turbine rotor blades at the end of their life cycle	D2.M3.2
Wladimir Motta and Amanda Xavier	Product performance and functionality: LCA's contributions?	D2.M3.3
Pedro Marques, Raphaela Vidal and Vitor Anes	Sustainability and Lean Manufacturing: is there a real link?	D2.M3.4
João Loja Pereira, Artur Mateus and Fábio Simões	Direct digital manufacturing of products based on high content of stone powder	D2.M3.5
Ana Costa, Fábio Simões and Artur Mateus	CircularSeas - Characterization and Reprocessing of Polymeric Waste Materials Recovered from Beaches	D2.M3.6

Session D2.M4 QUALITY: Problem Solving Methodologies and Improvement II Zoom ID: 81539890269		
Authors	Title	ID
Saba Fatma and Manoj Kumar	Customer Experience Quality(EXQ) measurement in private hospitals in India- a contextual perspective	D2.M4.1
Diogo Almeida, Luís Pinto Ferreira, José Sá, Manuel Lopes, Francisco Silva and Mário Pereira	A Comparison Between Dispatch Rules and Simulated Annealing in the Resolution of a Production Scheduling Problem	D2.M4.2
Matheus Fernando Moro and Dalton Francisco de Andrade	Quality assessment of real estate websites through user satisfaction	D2.M4.3
Sara Soares, Pedro Marques and Helena Navas	Continuous Improvement: a Case Study in Online Retail Involving Lean Tools	D2.M4.4
Gabriela Fernandes, David O'Sullivan and Eduardo B. Pinto	Governing and Managing a University-Industry Collaborative R&D Program	D2.M4.5

Session D2.A1 QUALITY: Lean and Six Sigma and Problem Solving Methodologies and Improvement Zoom ID: 89727194027		
Authors	Title	ID
Eduardo Martins and Manuel Lopes	A comparative experiment study on red retroreflectors manufacturing processes	D2.A1.1
Catarina Dias, Irene Ferreira and Mário Correia	Application of DMAIC methodology to the Meat Industry	D2.A1.2
Gabriela Fernandes, Joana Domingues, Anabela Tereso and Eduardo B. Pinto	A Risk Management Methodology for Collaborative University-Industry R&D Programs	D2.A1.3
Francisco Merlo, Helena Navas and Anabela Alves	Internal process improvement in an industrial graphical company – Lean and TRIZ approach	D2.A1.4
Vitor Hugo Ferreira and Barbara Delgado	The Impact of Adopting I4.0 on Employee Satisfaction: A Case Study	D2.A1.5