

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
Ounísia 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
Vítor 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 dioica/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

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
Sidhartha 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 Nunhes, 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
Cristiana Bonifácio, Michael Franco and Joaquim Almeida.	EcoInov4Mortar.: Eco Innovation for sustainable mortars	D1.P1.9

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 Gaine	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
Gonçalo Moreiras, Maria Teresa Pereira, L.P Ferreira, J.C. Sá	Optimization of the Sales Supply Chain Management	D2.M2.5
Joana Carina Moreira , Maria Teresa Pereira, L.P Ferreira, J.C. Sá	Implementation of an information system to improve logistic processes	D2.M2.6

Session D2.M3 SUSTAINABILITY: Circular Economy and Life cycle costing | NEW Zoom ID: 85173728585

Authors	Title	ID
Wladmir 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 | NEW Zoom ID: 891 2640 9974 | passcode: 3PDJ56

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
Andreia Mingote, Tânia M. Lima and Susana Garrido	Proposal for a Sharing Economy Development Centre for the Textile and Clothing Industry	D2.A1.6
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.A1.7