



## Comunicações científicas

### Programa geral

| Horário       | Quarta-feira<br>06 julho  | Quinta-feira<br>07 julho  |
|---------------|---|---|
| 14:00 – 16:30 | Sessão de comunicações científicas #1<br>Geração e autoconsumo de energia | Sessão de comunicações científicas #3<br>Desafios ambientais e descarbonização                                    |
| 16:45 – 19:30 | Sessão de comunicações científicas #2<br>Geração e autoconsumo de energia | Sessão de comunicações científicas #4<br>Mobilidade urbana sustentável  <br>Desafios ambientais e descarbonização |

Presencial (P): Auditório Eng. Alcínio Miguel, Escola Superior de Tecnologia e Gestão, Bragança  
Online (O): <https://videoconf-colibri.zoom.us/> (exclusivo para os palestrantes)

Para assistir às sessões, utilize o canal [YouTube live stream](#).



## Programa detalhado

### Sessão de comunicações científicas #1 – Geração e autoconsumo de energia

Quarta-feira, 6 de julho

Moderadores: Getúlio Igrejas, Florbela Fernandes

| Horário     | ID   | Comunicação, Autores  |   |
|-------------|------|---|---|
| 14:00-14:15 | 5378 | Building of Smart Plugs to Energy Efficiency in the Residence Load Management,<br><b>William Rodrigues Silva</b> , Thadeu Brito, Luis Claudio Gambôa Lopes and José Lima                              | P |
| 14:15-14:30 | 0892 | Smart system for monitoring and controlling energy consumption and ambient conditions,<br><b>Paloma Greiciano de Souza Dias</b> , Thadeu Brito, Luis Cláudio Gambôa Lopes and José Lima               | P |
| 14:30-14:45 | 1337 | Smart Buildings – A Case Study in Braganza,<br><b>Rebeca B. Kalbermatter</b> , Thadeu Brito, João Braun, Ana I. Pereira, Ângela P. Ferreira and José Lima   | P |
| 14:45-15:00 | 0174 | Simulated Microcontrolled Photovoltaic Irrigation System for Family Farming,<br><b>Maria Cecília Ribeiro Vilaça</b> , Kamilly Flávia Carvalho dos Santos, Rafael Romão da Silva and Josue Silva Souza | O |
| 15:00-15:15 | 6928 | Microgrid Integration : an Opportunity that Need Challenges,<br><b>Yahia Amoura</b> , Ana Isabel Pereira, José Lima and Santiago Torres   | O |
| 15:15-15:30 | 6111 | Proposal of a framework for planning energy- efficient smart spaces in Industry 4.0,<br><b>Viviane Ferreira</b> and Raphael Gomes   | O |
| 15:30-15:45 | 4559 | Wind turbine data visualization based on Principal Component Analysis,<br><b>Danielle Pinna</b> , Rodrigo Toso, Fernando de Sá, Ana Isabel Pereira and Diego Brandão                                  | O |
| 15:45-16:00 | 3793 | Brazilian PV Power Converter Substations,<br><b>Rodrigo Seifert</b> and Paulo Fritzen   | O |
| 16:00-16:15 | 4613 | Analysis of the Synergy Between Consumption and Residential Photovoltaic Production in the City of Três Lagoas – MS,<br><b>Murilo Frigo</b> and Fernando Caneppele                                    | O |
| 16:15-16:30 | 7107 | Comparison Between The Analysis Of Measured And Simulated Performance Ratio Of Photovoltaic Microgeneration System,<br><b>Murilo Frigo</b> and Fernando Caneppele                                     | O |

### Sessão de comunicações científicas #2 –Geração e autoconsumo de energia

Quarta-feira, 6 de julho

Moderadores: João Azevedo, Arlindo Almeida

| Horário     | ID   | Comunicação, Autores   |   |
|-------------|------|--|---|
| 16:45-17:00 | 8837 | Biodiesel Production from Waste Cooking Oils Catalysed by Ionic Liquid [BMIM][HSO <sub>4</sub> ],<br><b>Fretson Almeida</b> , Ana Queiroz, António Ribeiro and <b>Paulo Brito</b>  | P |
| 17:00-17:15 | 5124 | Valorisation of Waste Cooking Oils through Conversion Processes to Biodiesel Catalysed by Ionic Liquid [HMIM][HSO <sub>4</sub> ],<br><b>Fábio Monteiro</b> , Ana Queiroz, António Ribeiro and <b>Paulo Brito</b>                         | P |
| 17:15-17:30 | 1483 | Modeling residual wood biomass yield in the subregions Terras de Trás-os-Montes and Aveiro,<br><b>Leandro Macedo Godoy</b> , Fernando Pérez-Rodríguez, Flávia Alves Pereira and João Carlos Azevedo                                      | P |
| 17:30-17:45 | 6911 | Study of Biodiesel Production from Waste Cooking Oil by Ethyl Transesterification and its Purification Using Adsorption Processes,<br><b>Gabriel Camilo</b> , Maria Carolina Gomes, Ana Queiroz, António Ribeiro and Paulo Brito         | P |
| 17:45-18:00 | 8560 | Biodiesel Production from Residual Cooking Oils and Purification by Adsorption Processes Based on Adsorbents of Natural Origin,<br><b>Maria Garção</b> , Maria Gomes, Ana Queiroz, Antonio Ribeiro and Paulo Brito                       | P |
| 18:00-18:15 | 4069 | Biomass Characterization and Pyrolysis, the Effect of Heating Rate on Products Yield,<br><b>Gabriel de Freitas Batista</b> and Paulo Brito   | P |
| 18:15-18:30 | 7065 | Metal Oxide-based Photoelectrocatalytic Materials For Overall Water Splitting: An Overview,<br><b>José António Rodrigues</b> , Suresh Babu Rajendran, Milena Pinto and Ana Lúcia Barros  | O |
| 18:30-18:45 | 6358 | Construction and Characterization of Solar Cells Sensitized by Natural Dyes Extracted from Fruits and Flowers,<br><b>Higor Oliveira da Cunha</b> , Arcano Matheus Bragança Leite, Rajendran Suresh Babu and Ana Lucia Ferreira de Barros | O |
| 18:45-19:00 | 9578 | Main Changes of the New Regulatory Framework of Distributed Generation in Brazil and Future Prospects,<br><b>Alice Bardasson</b> , Daniel Silva, <b>Filipe Magliano Fernandes</b> , Paulo Borges and Rafael Magossi                      | O |
| 19:00-19:15 | 0661 | Practical Effect of Time on Solar Energy Generation Based on Thermoelectric Effect,<br><b>Kamilly Flávia Carvalho dos Santos</b> and Paulo Ixtânio Leite Ferreira  | O |
| 19:15-19:30 | 3817 | Thermal Comfort Methods Applicable in Residences,<br><b>Fernando Figueiredo de Abreu Junior</b> , Dadui Cordeiro Guerrieri and Laís Amaral Alves   | O |



Sessão de comunicações científicas #3 – Desafios ambientais e descarbonização

Quinta-feira, 7 de julho

Moderadores: Artur Gonçalves, Diego Brandão

| Horário     | ID   | Comunicação, Autores   |   |
|-------------|------|--|---|
| 14:00-14:15 | 5858 | Environmental Impacts by Outdoor Activities in Northern Portugal,<br><b>Elaine Scalabrini</b> and Paula Odete Fernandes  | P |
| 14:15-14:30 | 7795 | Municipal Solid Waste Biorefineries: A State-Of-The-Art,<br><b>Yasmim Chaves</b> , Maria Margarida Gonçalves, Pedro Romano and Ronney Boly   | P |
| 14:30-14:45 | 9688 | Wind Turbine Blade Waste: A Quantifying Model,<br><b>Lucas Lisboa</b> and Luis Frólén  | P |
| 14:45-15:00 | 6433 | Numerical Investigation of Contaminant Distribution in a Room,<br><b>Fabiano Cassol</b> , Leonardo Campestrini Furst and Manuel Joaquim Sabença Feliciano  | P |
| 15:00-15:15 | 0287 | Becoming acquainted with green roofs contribution towards circular and resilient cities,<br><b>Ana Maria Antão-Geraldes</b> , Cristina Calheiros and Flora Silva   | P |
| 15:15-15:30 | 1174 | Environmental Assessment Of An Urban Wastewater Treatment Plant By Calculating The Carbon Footprint,<br><b>Lais Fabiana Serafini</b> , Cláudio Costa, Marcelo Bortoli and Manuel Feliciano                         | P |
| 15:30-15:45 | 7102 | An Analysis of The Relationship Between Working from Home and Environmental Impacts,<br><b>Fabrizio Pereira Privat</b> and Daduí Cordeiro Guerrieri  | O |
| 15:45-16:00 | 9695 | Urban Green Space Conservation: An Approach Within the Scope of Environmental Education,<br><b>Yvo Yuri Ferreira Pinheiro</b> , Claudionor Silva Mendes and Raimundo Nonato Barbosa Cavalcante                     | O |
| 16:00-16:15 | 4466 | Life Cycle Analysis and Kaizen in an Educational Institution: a Systematic Literature Review and Bibliometric Analysis,<br><b>Laice de Souza Scotelano</b> , Laene Oliveira Soares and Ronney Arismel Mancebo Boly | O |
| 16:15-16:30 | 6621 | Waste Collection Problem solution using Open-source Tool,<br><b>Adriano dos Santos Silva</b> , Filipe Alves, Jose Luis Diaz de Tuesta Triviño, Ana Pereira, Adrián Silva and Helder Gomes                          | O |

Sessão de comunicações científicas #4 – Mobilidade urbana sustentável | Desafios ambientais e descarbonização

Quinta-feira, 7 de julho

Moderadores: Ângela Ferreira, Carla Fernandes

| Horário     | ID   | Comunicação, Autores  |   |
|-------------|------|---|---|
| 16:45-17:00 | 2749 | Adaptive System to Manage Everyday User Comfort Preferences,<br><b>Pedro Filipe Oliveira</b> , Paulo Novais and Paulo Matos   | P |
| 17:00-17:15 | 2746 | Potential Reduction of Greenhouse Gas Emissions Through Vehicle Electrification: a Bibliometric Analysis,<br><b>Ana Cristina Silvério</b> , Paula Odete Fernandes and Ângela Ferreira                             | P |
| 17:15-17:30 | 6935 | Technological Perspectives and Economic Aspects of Green Hydrogen in the Energetic Transition: Challenges for Chemistry,<br>Lilian Guarieiro, Alex Alisson, Gisele da Rocha and <b>Jailson de Andrade</b>         | P |
| 17:30-17:45 | 1089 | Activity of carbon black/PTFE composites materials for electrochemical hydrogen peroxide production,<br><b>Jose Luis Diaz de Tuesta</b>   | P |
| 17:45-18:00 | 2903 | Occurrence of polycyclic aromatic compounds in different environmental compartments around a large Brazilian tropical bay,<br>Jailson de Andrade, <b>Madson Nascimento</b> , Sabrina Martinez and Gisele da Rocha | P |
| 18:00-18:15 | 1210 | CO2 Fluxes through the atmosphere/grass interface in an urban green space located in the North Interior of Portugal,<br><b>Alan Victor Silva</b> , Manuel Sabença Feliciano and Maria do Sameiro Patrício         | O |
| 18:15-18:30 | 3771 | Electric vehicle supply chain management: A bibliometric and systematic review,<br><b>Laene Oliveira Soares</b> , Augusto da Cunha Reis, Pedro Senna Vieira and Ronney Arismel Mancebo Boly                       | O |
| 18:30-18:45 | 3938 | Smart Living, a way for sustainability and culture 4.0,<br><b>Arthur Rossi</b> , Sabrina Furmam, Joseane Pontes, Paulo Leitão, Ariel Michaloski and Regina Pagani   | O |
| 18:45-19:00 | 5856 | Mobi2verde: A Sustainable Urban Mobility Proposal to Serve Public Network Students in Brazil,<br><b>Marcelo de Assis Corrêa</b> , André Luiz Canuto Duarte Melo, Givaldo Oliveira dos Santos and Deyvid Abreu     | O |
| 19:00-19:15 | 8214 | Reduction of GHG Emissions from Electric Mobility Penetration: a Study Case in Sal Island,<br><b>Randi Cardoso da Graça</b> and Ângela Ferreira   | O |