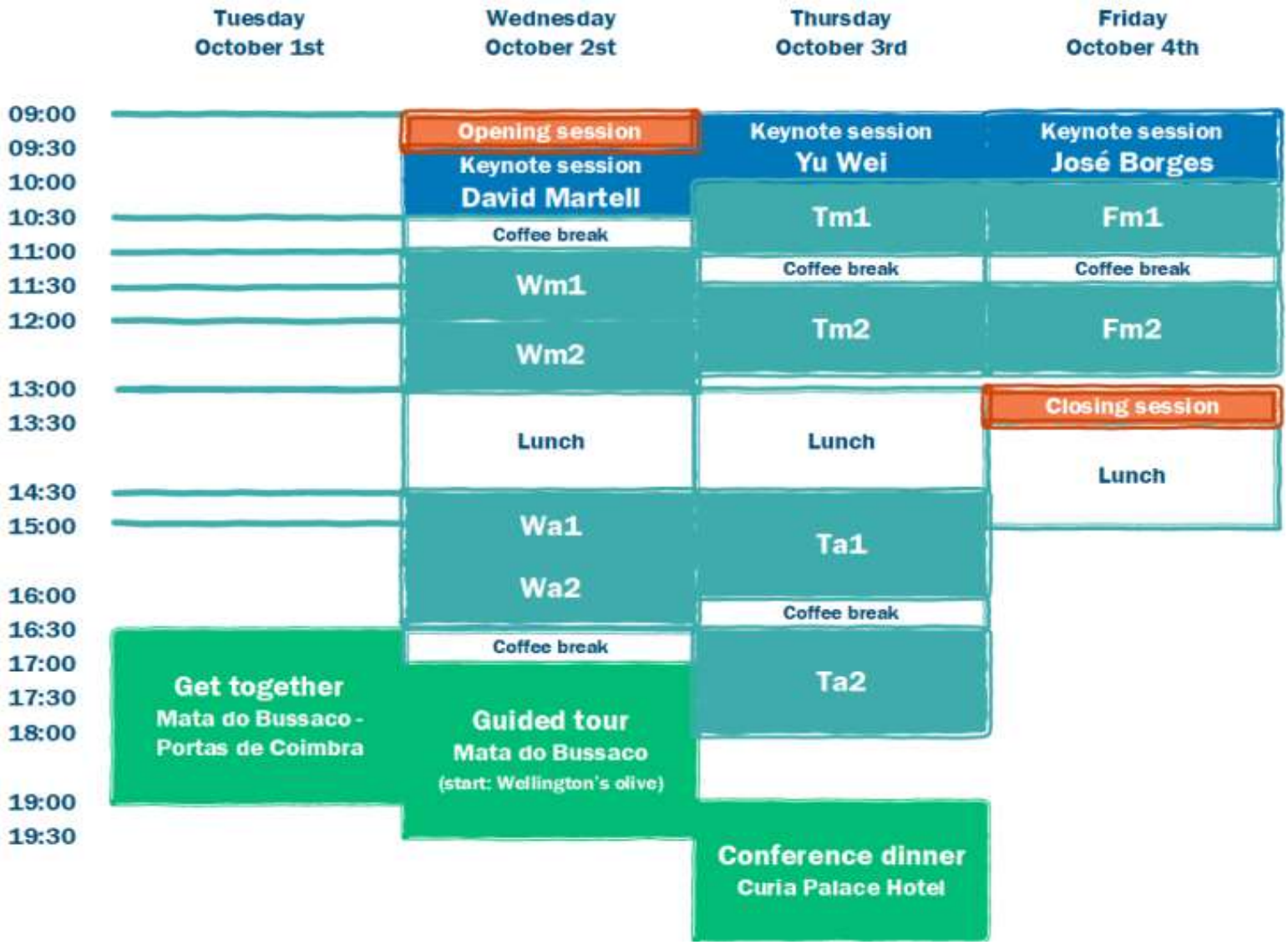
O&W Optimization and Wildfire Conference

Contributed Sessions


Tuesday
October 1st
Wednesday
October 2st
Thursday
October 3rd
Friday
October 4th
09:00
09:30
10:00
10:30
11:00
11:30
12:00
13:00
13:30
14:30
15:00
16:00
16:30
17:00
17:30
18:00
19:00
19:30
Opening session
Keynote session
David Martell
Coffee break
Wm1
Wm2
Lunch
Wa1
Wa2
Coffee break
Keynote session
Yu Wei
Tm1
Coffee break
Tm2
Lunch
Ta1
Coffee break
Ta2
Keynote session
José Borges
Fm1
Coffee break
Fm2
Closing session
Lunch
Get together
Mata do Bussaco -
Portas de Coimbra
Guided tour
Mata do Bussaco
(start: Wellington's olive)
Conference dinner
Curia Palace Hotel

Wednesday morning

Wm1 | 11:00-12:00
Chair | Alan Ager
34. Optimizing Thinning Scheduling, Carbon Stocks, and Wood Supply in Mediterranean Pine Plantations under the Risk of Fire. By Mauricio Acuna
12. Optimized Design of Wildfire Risk Mitigation Actions. By Nicolò Perello
42. Fire2a's Tools to Mitigate the Effects of Wildfires. By Filipe de La Barra
14. A Review of New Spatial Optimization Platforms for Prioritizing Investments in Wildfire Risk Reduction and Restoration. By Alan Ager

Wm2 | 12:00-13:00
Chair | Alan Murray
11. Optimized Hourly Fuel Moisture Model for Enhanced Wildfire Danger Assessment. By Nicolò Perello
38. Improving Fuel Characterization through Percentile-Based Canopy Base Height Models for Maritime Pine in Portugal. By Jean Magalhães
57. Strategic Fire Hazard Mitigation Planning: a Case Study in the Lousã Region, Portugal, By Ana Sá
30. Optimizing Wildland Fuels Treatment to Mitigate Wildfire Risk and Vulnerability. By Alan Murray

Wednesday afternoon

Wa1 | 14:30-15:30
Chair | Pete Bettinger
29. Optimizing the Allocation of Fuel Management Investments for the Portuguese National Fire Plan. By Alan Ager
21. Maximizing Opportunities for Co-Implementing Fuel Break Networks and Restoration Projects in the Umatilla National Forest, USA. By Bruno Aparício
55. Optimization-Based Impacts of Forest Management Practices on Recreational and Aesthetic Services in Forested Landscapes. By Brigite Botequim
4. A New Look at an Old Forest Harvest Scheduling and Wildfire Model. By Pete Bettinger

Wa2 | 15:30-16:30
Chair | José González-Olabarria
20. Optimizing Residual Agro-Forestry Biomass Land Harvest while Considering Triple Bottom Line (TBL) and Wildfire Risk Factors. By Ruxanda Silva
50. Sustainable Management Model for the Residual Agroforestry Biomass Supply Chain. By Saeed Hassanpour
59. Exploring Mathematical Formulations for the Spatial Forest Planning Problem. By Miguel Gomes
13. Allocation of Optimal Fuel Management Actions That Rely on Multi-actor Prioritization Strategies. By José González-Olabarria

Thursday morning

Tm1 | 10:00-11:00
Chair | Agostinho Agra
10. An Integer Programming Formulation for Sensor Placement in LoRaWAN Networks. By Jessica Singer
47. Optimized Distributed Temperature Sensor for Forest Fire Detection Using Existing Telecommunications Fiber Networks. By Joana Vieira
48. Optimizing Autonomous Unmanned Aerial System Deployment Locations for Enhanced Wildfire Detection and Monitoring. By Sascha Zell
40. A Robust Approach for the Prepositioning of Resources for Wildfire Suppression. By Agostinho Agra

Tm2 | 11:30-12:45
Chair | Savvas Gkantonas
53. Advancements in Wildfire Detection: Integrating Wind Field Simulation and Gas Dispersion Modeling. By Md Khalid Mustafa
44. A Genetic Algorithm for Multiple Fires Suppression. By Marina Matos
35. Resource-Constrained Emergency Scheduling for Major Forest Fires: A Learning Driven Adaptive Artificial Bee Colony Approach. By Zilong Zhao
36. Optimal Off-Policy Evaluation in Finite Stochastic Partial Monitoring. By Mostafa Rezaei
17. A Physics-Based Optimisation Framework for the Management of Wildfire Risk and Emergencies. By Savvas Gkantonas

Thursday afernoon 1st

Ta1 | 14:30-15:15
Chair | André Mendes
16. Iterated Local Search for Firefighting Helicopter Planning. By Marta Barreiro
41. Covering and Network Design for Wildfire Preparedness. By Elsa Silva
27. Robust Optimisation for Dispatching Fire Suppression Resources. By André Mendes

Ta2 | 15:15-16:00
Chair | Kristy Butler
15. Constructive Heuristics to Solve the TOPVTW Applied to Wildfire Suppression. By Bibiana Granda-Chico
46. Intelligent Decision Making in Resource Management for Wildfire Suppression. By Mahdi Bashiri
8. Heuristics for Wildfire Suppressibility in Victoria, Australia. By Kristy Butler

Thursday afernoon 2st
Ta3 | 16:00-17:15
Chair | Miguel Constantino
24. Data-Driven Approach for the Optimization Problem in Fire Suppression. By Mauro Barros
7. Leveraging Automatic Vehicle Location Data to Quantify Fireground Operations in Victoria, Australia. By Kristy Butler
54. Forest Road Network for Firefighter Access. By Miguel Constantino

Ta4 | 17:15-18:00
Chair | Marta Pascoal
6. The Graph Burning Problem under Constrained Diffusion. By Enrico Iurlano
45. pyO3F - A Python Framework for Fire Related Optimization. By Marco Marto
18. The Wildfire Safety Paths Problem. By Marta Pascoal

Friday morning

Fm1 | 10:00-11:00
Chair | Helena Alvelos
56, The use of a Cell-Based Forest Fire Growth Model to Support Strategic Landscape Management Planning in a Portuguese landscape. By Susete Marques
26. A Surrogate-Model-Based Algorithm for Multi-objective Optimization. By Aboozar Mohammadi
1. Alleviating the Impact of Wildfires in Forest Management Planning and Supply Chain Activities. By Shuva Gautam
43. Modelling Wind Behaviour for the Development of Scenarios in the Context of Wildfire Spread. By Helena Alvelos

Fm2 | 11:30-12:45
Chair | Abílio Pacheco
9. Predicting Demand for Wildfire Suppression Resources. By Ilbin Lee
52. Experimental and Numerical Study of Biomass Thermal Conversion in a Small-scale Reactor. By Senhorinha Teixeira
2. Comparing Post-fire Mortality in Spanish Forests: Mixed Stands and Different Fire Strategies Exhibit Higher Damage. By Marina Peris-Llopis
28. Rethinking Milling Capacity Investments in Support of Fuel Reduction Thinning Programs in the Western United States. By Greg Latta
58. FyMIS Simulator: A Versatile Tool for the Economic Evaluation of Alternative (Re)Forestation Strategies. By Abílio Pacheco

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See you in Luso!