



MONTEVITIS

Together for the mitigation of climate change's impact on viticulture



Conference Agenda

Student Micro-Conference in Applied Mathematics – AM Connect 2024

December 2nd, 2024



Funded by
the European Union

Student Micro-Conference in Applied Mathematics

AM CONNECT 2024

Session 1: Climate Change Challenges

Venue: UDG, Room Vizija

Online: <https://us06web.zoom.us/j/85067915901?pwd=xoxJw6lLEbw26NiV6SJix7vY0gfoEA.1>

Time (CET)	Title	Speaker/Participants
09:00 – 09:10	Welcome Remarks	Kruna Ratković, UDG
	Presentation session	
09:10 – 09:20	Mapping vineyard areas in Montenegro using QGIS	Enisa Trubljanin, UDG
09:20 – 09:30	Mean Temperatures Weather Forecasting: Assessing Laplacian Smoothing in Markov Chains Model	Sara Medojević, UDG
09:30 – 09:40	Impact of Annual Mean Temperature (BIO1) on Vineyard Yield in Montenegro	Tamara Racković, UDG
09:40 – 09:50	Relationships between climate variability and grapevine phenology	Nadira Pupović, UDG
09:50 – 10:00	Implementation of kaolin in the vineyard as a measure of adaptation to climate change	Luka Andrić, UDG
10:00 – 10:10	Climate Data Downscaling with CHELSA - Workshop Insights and Future Applications	Arslan Vlahovljak, UDG
10:10 – 10:20	The Impact of Climate Change on Agriculture: Mathematical Models for Yield Prediction	Balša Klikovac, UDG
10:20 – 10:30	Temperature Trends and Patterns in Montenegro	Dino Đerekerac, UDG
10:30 – 11:00	Coffee break	
11:00 – 11:10	Relationship Between Tropospheric Ozone and Hot Extreme Events – Identification of Its Predictors in Mainland Portugal	Catarina Alonso; João Santos; Célia Gouveia, UTAD
11:10 – 11:20	Assessing Climate Impacts on Viticulture in Montenegro: Bioclimatic Analysis and Future Projections for Wine Regions	Aleksandar Zečević, IHMS
11:20 – 11:30	CHELSA Algorithm and Climate Change: Exploring High-Resolution Data for Sustainable Future Planning	Mihailo Đurović, UDG
11:30 – 11:40	Impact of Climate Change on Public Finances and Fiscal Policy	Sara Šundić, UDG
11:40 – 11:50	Impact of Climate Change on Agricultural Production and GDP: A Case Study of Montenegro	Jana Mrvaljevic, UDG
11:50 – 12:00	The Impact of Climate Change on the Job Market – Threats and Opportunities	Elmedina Mušanović, UDG
12:00 – 12:10	The potential and prospects of Montenegro in the context of a circular transition	Jovana Popović, UDG
12:10 – 12:20	Utilization of Anomaly Detection Techniques for Soil Salinity in the Context of Climate Change Challenges: An Overview	Farida Asadova, OBU
12:20 – 12:30	Personalized risk assessment of physiological parameters using a fuzzy approach	Felisberto David Wandi Chivela, OBU
	Closing remarks	

Student Micro-Conference in Applied Mathematics AM Connect 2024

Session 2: Stochastic processes

Venue: UDG, Room S38

Time	Title	Speaker/Participants
08:00 – 08:10	Welcome Remarks	Nataša Kovač, UDG
	Presentation session	
08:10 – 08:20	Primjena stohastičkih procesa na opšti proces rađanja i umiranja	Milica Đukanović, UDG
08:20 – 08:30	Primjena Markovljevih lanaca u algoritmu Page rank	Elma Škrijelj, UDG
08:30 – 08:40	Stohastički procesi u onkologiji	Adlija Kalamperović, UDG
08:40 – 08:50	Bajesova verovatnoća u vremenskoj prognozi	Ajeta Cenović, UDG
08:50 – 09:00	Binomni proces	Dragana Gutić, UDG
09:00 – 09:10	Primjena Levijevih procesa u modelovanju anomaljskih pojava u finansijskim tržištima	Marko Furundžić, UDG
09:10 – 09:20	Primjena stohastičkih modela u životnom osiguranju	Amina Murić, UDG
09:20 – 09:30	Primjena Wienerovog procesa u modeliranju kretanja cijena akcija	Aleksandar Nedović, UDG
09:30 – 09:40	Markovljevi lanci u finansijama	Anđela Janković, UDG
	Closing remarks	



