BIOSTAT 2025

27th International Scientific Symposium on Biometrics
Varaždin, Croatia, 11-14 June 2025

SYMPOSIUM PROGRAM

Wednesday, June,11	19:00 – 20:00		Registration & Welcome Cocktail

Thursday, June, 12	8:00 – 8:30	Opening ceremony	
	8:30 – 10:00	*Chair: Lynne Billard*	School of Biometrics – *Part I* **Paula Brito:** **Symbolic Data Analysis: Taking Variability in Data into Account**
	10:00 – 10:30	COFFEE	
	10:30 – 12:00	*Chair: Lynne Billard*	School of Biometrics – *Part II* **Paula Brito:** **Symbolic Data Analysis: Taking Variability in Data into Account**
	12:00 – 13:00	*Chair: Janez Stare*	Contributed session
		AUTHOR	TITLE
		Argon Chen, Yi-Ching Chen, Tien-En Chang	Supervised Clustering Based on Relative Importance and Its Applications to Gene Expression Analysis
		Vladimir Brajkovic, Zvonimir Mijadžiković, Ivana Držaić, Vlatka Cubric-Curik, Maja Ferenčaković, Mario Shihabi, Nikola Raguz, Boris Lukic, Nataša Mikulec, Dario Domovic, Dalibor Hrsak, Dinko Novosel, Ino Curik	Big data analysis in dairy cattle breeding
		Želimir Kurtanjek	Causal statistical analysis of food quality
	13:00 – 14:00	LUNCH BREAK	
	14:00 – 15:00	*Chair: Diana Šimić*	Contributed session
		AUTHOR	TITLE
		Mulugeta Gebregziabher, Kinfe Bishu, Andrew Schreiner	Flexible Competing Risk Modeling for Estimating the Association Between Time-Dependent Exposure and Cause Specific Mortality
		Matthew Bozigar, Garyfallos Konstantinoudis, Carolina L. Zilli Vieira, Longxiang Li, Yazan Alwadi, Rena R. Jones, Petros Koutrakis	Domestic radon exposure and childhood cancer risk by site and sex in 727 counties in the United States, 2001–2018
	15:00 – 15:30	*Chair: Anamarija Jazbec*	IBS Lecture Andrea Berghold: Individual Patient Data Meta-Analysis – A Case Study
	15:30 – 17:30	Celebration of the Croatian Biometric Society's 35th anniversary and the founding of the Croatian Region of IBS	

		John Vena: Ten Years of Scientific Exchange and Fellowsip; Needed Now, More Than Ever Lynne Billard: The International Biometric Society - A History Through the Archives HBMD Presidency: The Croatian Biometric Society - A History from IBS to IBS
	17:30 – 18:30	Celebration cake
	19:00	Sightseeing

Friday, June, 13	8:10 – 9:30	*Chair: Zdenko Sonicki*	Contributed session
		AUTHOR	TITLE
		Giulia Di Nunno, Jasmina Đorđević, Bojana Jovanović, Jelena Manojlović, Ivan Papić, Nenad Šuvak	Stochastic modeling of epidemics: Persistence and extinction in different epidemiological models
		Eleonora Detić	Sampling and Resampling Methods for Clinical Trials
		Janez Stare, Ana Perišić	Fixing the Korn and Simon Measure
		Gloria Brigiari, Ester Rosa, Giulia Lorenzoni, Dario Gregori	Sample Size Estimation for Prognostic Models: From Traditional Methods to Precision-Based Strategies
	9:30 – 10:30	*Chair: Marija Pecina*	Keynote Lecture: Renee Martin **Optimizing Clinical Trials: A Deep Dive where Methodology meets Management**
	10:30 – 11:00	COFFEE	
	11:00 – 12:00	*Chair: Slavica Sović*	Contributed session
		AUTHOR	TITLE
		Nikolina Pleić, Mirjana Babić Leko, Ivana Gunjača, Tatijana Zemunik	Vitamin D and thyroid function: a Mendelian randomization study
		Nikola Zagorec, Emile Cornec-Le Gall, John Sayer	Estimation of genetic prevalence and disease penetrance of polycystic kidney disease related to *IFT140* from large genomic databases
		Tea Sonicki, Simeon Nthuku, Jehane Fadlallah, Claire Fieschi, Guy Gorochov, Lejla Imamovic	Unveiling the Dark Microbiome: Core Community and Network Hubs in IgA Deficiency
	12:00 – 13:00	*Chair: Mislav Vedriš*	Contributed session
		AUTHOR	TITLE
		Danijela Žanko, Azra Tafro, Sunčana Geček, Antica Čulina	Performance of Open Data versus Classical Meta-Analysis - a simulation study
		Carissa Bleker, Maja Zagoršćak, Anže Županič, Kristina Gruden	BoolDog: Boolean modelling of plant stress responses in Python

		Azra Tafro, Krešimir Popić, Damir Ugarković	Modeling seasonality in pedunculate oak forest microclimate data
	13:00 – 14:00	LUNCH BREAK	
	14:00 – 14:30	ISPC Meeting	
	16:00	Excursion	
Saturday, June, 14	9:00 – 10:20	*Chair: Vladimir Brajković*	STUDENTS SESSION
		AUTHOR	TITLE
		Yu-Ting Huang, Charlotte Wang	Combining BNNs and VAEs: A Novel Generative Model for Addressing Imbalanced Data Classification in Biomedical Research
		Ya-Xuan Wu, Charlotte Wang	Clustering-based Motif Discovery in Unlabeled Physical Activity Data with Elastic Distance
		Borna Aleksić	Gene Selection for Preterm Birth Prediction Using Classification Trees and Logistic Regression with Additional Clinical Variables
		Villim Prpić, Erik Boustedt	Benchmarking Machine Learning Models for Forest Growth Prediction Using Swedish National Inventory Data
	10:20 – 11:20	*Chair: Azra Tafro*	Contributed session
		AUTHOR	TITLE
		Maja Buhin Pandur, Jasminka Dobša, Miranda Novak, Simona Korenjak-Černe	Factors of Internet application used by adolescents
		Krešimir Šolić, Ana Marija Kraljik, Barbara Herceg Pakšić, Stana Tokić	The Availability of Personal Data within Health Data: Between Legal Requirements and Scientific Needs
		Tomislav Meštrović, Inga Đaković Bacalja, Zdenko Sonicki, Anamarija Jazbec, Marko Belamarić, Ivica Premužić Meštrović, Josip Figl, Predrag Pavić	Machine Learning vs. Inferential Statistics in Vascular Surgery Research: Which is Preferred?
	11:20 – 12:10	COFFEE	
	12:10 – 12:40	Closing ceremony	
	12:40 – 13:40	LUNCH BREAK	