

Daily Schedule [ Symposium 368 - ML in Astronomy: Possibilities and Pitfalls] 2-4 Aug 2022 (IAU GA, Busan, Rep. of Korea)

Session		IAUS368		Plenaries in Auditorium				
Date		2-Aug		Other talks in #205				
Time (KST, GMT+9)	Program		Category	Speakers			Type of Participation	Remarks
	Program	Slot		Name	Abs. no.	Title		
08:15-09:45	Registration		Registration					1st day of GA - Registration
09:45-10:30	Morning e-Poster							
10:30-12:00	Morning Oral Session	S368-1	Opening Remarks	SOC				15 minutes
			Invited	Sara Webb	3253	ML tutorial for the broader community	Remote	1:15 hours
12:00-13:30				Lunch				
13:30-15:00	Afternoon Oral Session 1	S368-2	Invited	Guillermo Cabrera	3009	Classic Machine Learning vs Deep Learning: when, why and how?	In-room	1:30 hours
15:00-15:15				Break				
15:15-16:45	Afternoon Oral Session 2	S368-3	Invited	Michelle Lochner	1545	Machine Learning in Astronomy	Remote	45 Minutes
			Invited	Benjamin L'Huillier, Mark Huertas Company (+), Giorgos Vernardos, Joshua Speagle (+)		Panel discussion: Broader ML Topics	In-room	45 Minutes
16:45-17:30	Afternoon e-Poster							

Date		3-Aug						
Time (KST, GMT+9)	Program		Category	Speakers			Type of Participation	Remarks
	Program	Slot		Name	Abs. no.	Title		
08:15-09:45	Plenary Lecture		Plenary	George Djorgovski	1791	Machine Learning in Astronomy: From the Star-Galaxy Separation to a Collaborative Human-AI Discovery	Remote	45 Minutes
			Plenary	Ofer Lahav	2189	Deep Learning in Astronomy: Trends and Challenges	In-room	45 Minutes
09:45-10:30	Morning e-Poster							
10:30-12:00	Morning Oral Session	S368-4	Invited	Renee Hlozek	1870	Existing data sets for machine learning in Astronomy	In-room	45 Minutes
			Invited	Nikhita Madhanpall, Mike Walmsley, Shay Zucker		Panel discussion: Methodology for fusion of large datasets	In-room	45 Minutes
12:00-13:30				Lunch				
13:30-15:00	Afternoon Oral Session 1	S368-5	Contributed	David Parkinson	555	Detecting complex sources in large surveys using an apparent complexity measure	In-room	15 Minutes
			Contributed	Dennis Crake	2021	In Search of the Peculiar: An Unsupervised Approach to Anomaly Detection in the Transient Universe.	In-room	15 Minutes
			Contributed	Didier Fraix-Burnet	1003	Unsupervised classification: a necessary step for Deep Learning?	In-room	15 Minutes
			Contributed	Gordian Edenhofer	1049	Iterative Grid Refinement: Approximate Gaussian Processes for Billions of Parameters	In-room	15 Minutes
			Contributed	Jeroen Auderaert	1830	Unraveling the physical mechanisms of pulsating stars through a multimodal and multidisciplinary machine learning approach	In-room	15 Minutes
			Contributed	Annalisa Pillepich	2178	ERGO-ML: Extracting Reality from Galaxy Observables with Machine Learning	In-room	15 Minutes
15:00-15:15				Break				
15:15-16:45	Afternoon Oral Session 2	S368-6	Invited	Yuan-Sen Ting, Sungwook Hong, Lilliane Nakazono, Guillermo Cabrera		Discussion: Practical Problem Solving - including interpretability	In-room	90 Minutes
16:45-17:30	Afternoon e-Poster							

Date		4-Aug						
Time (KST, GMT+9)	Program		Category	Speakers			Type of Participation	Remarks
	Program	Slot		Name	Abs. no.	Title		
08:15-09:45	Plenary Lecture		Plenary					Symposium 369
09:45-10:30	Morning e-Poster							
10:30-12:00	Morning Oral Session	S368-7	Invited	Eric Ford	1546	Enhancing Exoplanet Surveys via Physics-informed Machine Learning	Remote	45 Minutes
			Invited	Samaya Nisanke, Jae-Hun Jung, Melissa Lopez, Rafael Martinez Galarza		Panel Discussion: GW/MMA	In-room	45 Minutes
12:00-13:30				Lunch				
13:30-15:00	Afternoon Oral Session 1	S368-8	Invited	Ivy Wong	927	A review of current tools for outreach & education	In-room	45 Minutes
			Contributed	Melissa Lopez	1744	Simulating Transient Noise Bursts in LIGO with Generative Adversarial Networks	In-room	15 Minutes
			Contributed	Mike Walmsley	1150	Galaxy Zoo: Practical Methods for Large-Scale Learning	In-room	15 Minutes
			Contributed	Joshua Speagle	707	Incorporating Errors in Machine Learning Methods	Remote	15 Minutes
15:00-15:15				Break				
15:15-16:45	Afternoon Oral Session 2	S368-9	Contributed	Raquel Ruiz Valenca	2501	Comparing machine learning and deep learning models to estimate quasar photometric redshifts	In-room	15 Minutes
			Contributed	Steffani Grondin	1203	Searching for the extra-tidal stars of Galactic globular clusters with high-dimensional clustering analysis	In-room	15 Minutes
			Contributed	Vishal Upendran	515	Accelerating astronomy workflow with deep learning and interpretable AI	In-room	15 Minutes
			Contributed	Yuan-Sen Ting	503	Quantifying non-Gaussianity with mathematical insights from machine learning	In-room	15 Minutes
			Summary	SOC		Meeting Summary and Next Steps	In-room	15 Minutes
			Closing Remarks	SOC			In-room	15 Minutes
16:45-17:30	Afternoon e-Poster							

\*+ Remote