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6th Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Artificial Intelligence and Climate Modelling | (smr 4067) / Programme

Tuesday 13 May 2025

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notitle - Kastler Lecture Hall (AGH) (09:00-16:30)

time	title	presenter
09:00	Hybrid models at ECMWF, from spectral nudging to online trained model error corrections	ALBAN FARCHI
10:30	Coffee Break	
11:00	Sub-seasonal forecasting with the AIFS	JAKOB SCHLOER
12:00	ENSO forecast with AI	JAKOB SCHLOER
12:30	Lunch	
14:00	Investigating Extreme Precipitation Event Attribution Through Deep-Learning Approaches	JEREMY MALCOM CORNER
14:15	Enhancing Seasonal Predictions with Machine Learning: A Global Perspective on SST Influence in Early Winter	VICTOR GALVAN FRAILE
14:30	Retrieving tropical cyclone intensity from climate output: AI approaches and challenges	CHANH QUOC KIEU
14:45	Coffee Break	
15:15	Enhancing Local Climate Zone Classification in Jakarta Using AI: Machine Learning Approach with Landsat 9 and Land Surface Temperature Integration	REZKY YUNITA
15:30	On the application of generative modelling for seasonal climate predictions	LLUIS PALMA I GARCIA
15:45	CNN-based forecasting of early winter NAO using sea surface temperature	ELENA PROVENZANO
16:00	Fine-tuning a global weather model for superior subseasonal forecasting	VATEANUI FRANCOIS ERNEST SANSINE
16:15	Climate projections in the Euro-Mediterranean region: atmospheric circulation patterns and temperature and rainfall future changes	MATIAS EZEQUIEL OLMO