Directions

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Invitation Letter

Every year the risk of extreme weather events such as storms, heavy snowfall, flooding, droughts and heat waves is rising globally. Even at this moment, many people around the world are suffering from tremendous weather-related disasters. And the disasters even threaten basic human rights of people living in the areas vulnerable to natural disasters.

At this critical juncture, weather radars play the most crucial role in early monitoring and very short-range forecasting of heavy rainfall and flash flooding in the context of meteorological and hydrological disaster prevention and preparedness.

This year marks the 50th anniversary of the operation of weather radars in Korea. The year 2019 is indeed a significant year for the Korea Meteorological Administration, as we open a new era of weather radar by establish a new nationwide dual-polarization radar network.

The Korea Meteorological Administration and the Ministry of Environment will jointly host the 2019 International Conference on Weather Forecasting and Hydrological Applications of Radar to provide an opportunity for collaboration to efficiently utilize the dual-polarization radar network and enhance radar-based disaster prevention.

I hope this conference will be a great opportunity for all participants to discuss future cooperation on disaster prevention and technical innovation in the field of weather radar.

Thank you.

12:30 ~18:00

Jongseok Kim

nity for collaborat Administrator of the Korea Meteorological Administration ance radar-based disaster prevention.

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Thank you. **This program can be changed by the site situation.				
	DATE / TIME	TITLE	SPEAKER	
11,13	2019, 11, 13	[Session 1] Keynote Presentation	Chair: Ki-Hong Min	
Wednesday	15:00 ~ 15:40	Seamless Probabilistic Analysis and Forecasting: from Minutes to Days	Wang Yong	
wednesday	15:40 ~ 16:20	Using a Radar Archive to Predict Precipitation Growth and Decay over Switzerland - a Machine Learning Approach	Daniele Nerini	
	16:20 ~ 16:40	Coffee Break		
	2019, 11, 13	[Session 2] Use of Radar Data for Nowcasting and Numerical Models	Chair: Sung-Hwa Jung	
	16:40 ~ 17:10	Ensemble Rainfall Forecast and Data Assimilation of Polarimetric Radar	Kosei Yamauchi	
	17:10 ~ 17:30	Improving Prediction of Numerical Model Using Radar Data Assimilation	Ki-Hong Min	
	17:30 ~ 18:00	Microphysics: DSD Measurements and Microphysical Assumptions	Fransisco J. Tapiador	
	18:00 ~ 20:00	Welcome Dinner		
11.14 2019, 11, 14 [Session 3] Hydrological Applications I			Chair: Keon-Haeng Lee	
	09:00 ~ 09:30	A Physical Interpretation for Peak Flow Scaling of Rainfall-Runoff Events with Implications on Peak Flow Regionalization	Richardo Mantilla	
Thursday	09:30 ~ 09:50	Bias Correction Method for Rainfall Forecasts using Backward Storm Tracking	Chulsang Yoo	
	09:50 ~ 10:10	Application of the Weather Radar-Based Quantitative Precipitation Estimations for Flood Runoff Simulation in a Dam Watershed	Younghyun Cho	
	10:10 ~ 10:30	Flash Flood Forecasting using Rainfall Radar and New Evaluation Method	Seokhwan Hwang	
1	10:30 ~ 11:00	Coffee Break	Seokilwan riwang	
	2019 11 14	Session 4] QC, QPE, and Microphysical Studies with Radars	Chair: GyuWon Lee	
	11:00 ~ 11:30	Microphysical Characteristics and Types of Precipitation for Different Seasons over North Taiwan	Pay-Liam Lin	
	11:30 ~ 12:00	Polarimetric Analysis of Melting Layer using Range Height Indicator-Quasi Vertical Profiles	Shaik Allabakash	
	12:00 ~ 12:20	Lower Level Rainfall Detection and Estimation Using Microwave Link	Min-Seong Kim	
	12:20 ~ 12:40	Procedure for Correction of Polarimetric Observations at SSPA X-band Weather Radar	Jeong-Eun Lee	
	12:40 ~ 14:00	Luncheon	Seorig Edit Lee	
	2019, 11, 14	[Session 5] New and Emerging Radar Technology	Chair: Kwang-Ho Kim	
	14:00 ~ 14:30	On the Application of Radar-Retrieved Refractivity	Ya-Chien Feng	
-	14:30 ~ 15:00	Radar Echo Extrapolation with Convolutional Recurrent Neural Networks	Quang-Khai Tran	
	15:00 ~ 15:20	Deep Learning based Weather Prediction (Precipitation Amount Prediction from Radar Data and Tropical Cyclone Path Prediction from Simulation Data)	Seongchan Kim	
-	15:20 ~ 15:40	Comparative Study of Storm Classification and Tracking Methods based on Machine Learning	Hansoo Lee	
	15:40 ~ 16:00	The Status of Radar Data Application for Satellite Products Validation and Verification	Jun Dong Park	
	16:00 ~ 18:00	[Session 6] Poster (13 topics)	The state of the s	
	18:30 ~ 20:30	Banquet		
11.15	2019 11 15	Session 7] Hydrological Applications II	Chair: Seong-Sim Yoon	
Friday	09:00 ~ 09:30	Hydrometeorological Big Data Analysis and Web-based Visualized Flash Flood Pre-Warning Platform	Lin Bing Zhang	
Tiluay	09:30 ~ 10:00	Hydrological Applications of Weather Radar and National Scale Flood Forecasting: Some UK Experiences	Steven Colle	
	10:00 ~ 10:20	A Research on Improving the Utilization of Rain Radar for Flood Forecasting System	Keon-Haeng Lee	
	10:20 ~ 10:40	Improved High Resolution Radar QPE in Seoul Metropolitan Area and Its Hydrological Application	GyuWon Lee	
	10:40 ~ 11:00	Revisiting the Z-R Relationship Using Long-Term Radar Reflectivity over The Entire South Korea Region in a Bayesian Perspective	Hyun-Han Kwon	
	11:00 ~ 11:20	Coffee Break		
	2019, 11, 15	[Session 8] Convergence Radar Technology	Chair: SangHun Lim	
	11:20 ~ 11:40	The Characteristics of Lightning using LINET and KMA S-band Polarimetric Radar	Mi-Young Kang	
	11:40 ~ 12:00	A Statistical Analysis on the Inner Structure of Volcanic Ash Clouds using X-band Dual-Polarimetric Radar	Sung-Ho Suh	
	12:00 ~ 12:20	Studies on Precipitation and Volcanic Eruption Clouds using X-band Polarimetric Radar	Yura Kim	
•	12:20 ~12:30	Closing Remarks		

City Tour