

AI and Weather Radars

Short Course Organizer

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SUNDAY, JANUARY 12, 2020

Time Topic Speaker

Time	Topic	Instructor / Contact
8:00	Check in	AMS
8:30	Opening, Introduction and program overview	TBD, Chandra, Hardin
8:45	Introduction to modern weather radar (ground and space)	Chandra
9:15	Introduction to the principles of Artificial Intelligence 9 with radar domain examples)	Chandra
10:00	Coffee Break	
10:30 AM	Review of software/ data access for class	J Hardin
11:00	Theory of Machine Learning Application for Quantitative precipitation Estimation (QPE), Nowcasting and Storm classification	Chandra, Hardin
12:30	(Lunch on own)	TBD
13:45	Practicum – QPE	Hardin
15:15	Summary, Additional resources and Evaluation	Chandra, Hardin
15:45	Course end and short Optional Quiz and Homework Assignment	Chandra, Hardin

DATA ACCESS

The students will be provided with data sets from weather radars that are openly available. Detailed information will be available at the data access session. Please have at least GB of space available to work with data either in the machine or through other forms of access.