

POSTCONVENTION WORKSHOP

W-7: Machine Learning Applications for FWI and Seismic Imaging

George R. Brown Convention Center, Room 360

Start	Stop	Presentation	Speaker	Affiliation
1:30 PM	1:35 PM	Introduction	Weichang Li	Aramco Americas
		Session 1		
1:35 PM	1:50 PM	Physics-Informed Data-Driven Seismic Full-Waveform Inversion	Youzuo Lin	Los Alamos National Laboratory
1:50 PM	2:05 PM	Acquisition robust deep learning for velocity estimation	Yong Ma	Aramco Americas
2:05 PM	2:20 PM	Deep ensemble learning to reconstruct accurate low wavenumber starting models for FWI	Stuart Farris	Stanford
2:20 PM	2:35 PM	C-Trumpets for Full Waveform Inversion	Antonio Lara	Rice University
2:35 PM	2:50 PM	Estimations for operator learning and sketching methods for inverse problems	Ke Chen	University of Texas at Austin
2:50 PM	3:20 PM	Break		
		Session 2		
3:20 PM	3:35 PM	Least-squares reverse-time migration via deep learning-based updating operators	Kristian Torres Bautista	University of Alberta
3:35 PM	3:50 PM	On uncertainty in density prediction using DAS VSP and deep learning	Vladimir Kazei	Aramco Americas
3:50 PM	4:05 PM	Fourier Neural Operator for seismic data simulation	Nan You	Purdue University
4:05 PM	5:00 PM	Panel Discussion		