

Texas Consortium for Computational Seismology

20th Bi-Annual Research Meeting

| Monday, November 9, 2020 | | |
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| 9:00–10:00 | <i>Introduction and 10th Anniversary of TCCS</i> | |
| | Sergey Fomel TCCS Alumni | Introduction Short videos from around the world |
| 10:00–12:00 | <i>Seismic Imaging</i> | |
| | Björn Engquist Dmitrii Merzlikin* Luke Decker Tharit Tangkijwanichakul Zhicheng Geng | Mathematical overview Anisotropic-diffusion diffraction imaging Picking velocity surfaces Inverse Hessian estimation and LSRTM Semi-supervised salt segmentation |
| Zoom: https://utexas.zoom.us/j/92646485594 | | |
| Tuesday, November 10, 2020 | | |
| 10:00–12:00 | <i>Seismic Monitoring</i> | |
| | Tieyuan Zhu* Hejun Zhu* Harpreet Kaur: | Fiber optics seismic monitoring Seismic modeling, imaging and inversion Time-lapse seismic inversion using deep learning |
| Zoom: https://utexas.zoom.us/j/94373437311 | | |
| Wednesday, November 11, 2020 | | |
| 10:00–12:00 | <i>Seismic Inversion</i> | |
| | Yunan Yang* Ben Gremillion Zhicheng Geng | The universality of frequency marching Data-driven inversion with dimensionality reduction Deep learning for velocity model building |
| Zoom: https://utexas.zoom.us/j/92846223046 | | |
| Thursday, November 12, 2020 | | |
| 10:00–12:00 | <i>Noise Attenuation</i> | |
| | Ray Abma Nam Pham Harpreet Kaur | Simultaneous sourcing for sparse OBN and streamer Passive seismic signal denoising Hyperbolic Radon transform using deep learning |
| Zoom: https://utexas.zoom.us/j/96705605380 | | |
| Friday, November 13, 2020 | | |
| 10:00–12:00 | <i>Nonstationary Filtering</i> | |
| | Yang Liu* Yangkang Chen* Zhicheng Geng | Nonstationary prediction filters Non-stationary local time-frequency transform Streaming attributes |
| Zoom: https://utexas.zoom.us/j/99876914219 | | |

The meeting is virtual by Zoom. The presentation videos are prerecorded and will be available for download.

*TCCS Alumni