

**Dr. Fred Aminzadeh** is a Professor of Petroleum Engineering at University of Houston and Director of its **Artificial Intelligence Machine Learning and Data Analytics for Energy Exploration and Production (AIM-DEEP)** program. He serves on the Advisory Board of DOE/NETL's SMART Initiative: (<https://edx.netl.doe.gov/smart/>.) He is also president of FACT. Dr. Aminzadeh has over 30 years of experience in the industry and academia. His technical expertise includes: AI, Data Analytic 3D/4D Seismic, Reservoir Monitoring, CO<sub>2</sub> Sequestration, Micro-seismic, and Fracture Characterization. He served as the president of Society of Exploration Geophysicists (2007-2008) and represented SEG at the Unconventional Resources Technology Advisory Committee (URTAC) and the SPE Reserves Evaluation Committee (SPPE). He is a Fellow of IEEE, and a Member of Russian Academy of Natural Sciences and Azerbaijan Oil Academy. He received SEG's Honorary Membership and SPE's Western Region Reservoir Characterization and Formation Evaluation Awards.



Previously, he was a professor at USC and Director of its Global Energy Network ([gen.usc.edu](http://gen.usc.edu)). He was also president and CEO of dGB-USA ([dgbes.com](http://dgbes.com)), manager of geophysical technology at Unocal (now Chevron) and a member of technical staff at Bell Laboratories. He has consulted at several National Laboratories including LBNL, LLNL, LANL, ORNL and NETL. He holds 4 US patents and has authored 15 books and over 400 publications. His company FACT ([www.FACT-Corp.com](http://www.FACT-Corp.com)) has been involved in a number of research and software development projects as well as offering training in many subjects including: reservoir characterization, geo-statistics, AI / ANN for oil and gas, seismic attributes and AVO, among others. Currently, FACT is involved in the DOE's SMART Initiative, contributing to the task involving: Evaluation of Potential Technology Pathway to Image Fracture Networks.

