

Table of Contents

Special Section: Data analytics and machine learning

- 206 Introduction to this special section: **Data analytics and machine learning**, M. Davidson
- 208 **Automated fault detection without seismic processing**, M. Araya-Polo, T. Dahlke, C. Frogner, C. Zhang, T. Poggio, and D. Hohl
- 215 **Machine learning as a tool for geologists**, A. Caté, L. Perozzi, E. Gloaguen, and M. Blouin
- 220 **New methodology merging seismic, geologic, and engineering data to predict completion performance**, T. Ruths, J. Zawila, S. D. Fluckiger, N. J. Miller, and R. G. Gibson
- 227 **The use of predictive analytics for hydrocarbon exploration in the Denver-Julesburg Basin**, E. T. Schnetzler and D. L. Alumbaugh
- 234 **Time-lapse reservoir property change estimation from seismic using machine learning**, J. Cao and B. Roy
- 239 **Seismic attribute selection and clustering to detect and classify surface waves in multicomponent seismic data by using *k*-means algorithm**, I. Sánchez Galvis, Y. Villa, C. Duarte, D. Sierra, and W. Agudelo
- 249 **A scalable deep learning platform for identifying geologic features from seismic attributes**, L. Huang, X. Dong, and T. E. Clee
- 257 **Machine learning systems open up access to large volumes of valuable information lying dormant in unstructured documents**, K. Blinston and H. Blondelle
- 262 **Three data analytics party tricks**, M. Hall

267 **Distributed collaborative prediction: Results of the machine learning contest**, M. Hall and B. Hall

270 **Full Spectrum: SEG WNC boasts successful events during SEG 2016**, M. Erwin and L. Whitesell

Departments

- 198 Editorial Calendar
- 200 President's Page
- 202 From the Other Side
- 204 Foundation News
- 272 Bright Spots
- 273 Reviews
- 275 Board Report
- 275 Transitions
- 276 Meetings Calendar
- 278 Membership
- 280 State of the Net

Cover design by Maria Gee,
adapting an image from M. Hall.