Science Data: Rise Of the Machines, Analytics and Humans: Artificial Intelligence in the Age of the Iiot and Cyber

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ABSTRACT

In the next ten years, the Industrial Internet of Things (IIoT) will dramatically alter nearly all sectors of the industrial economy which account for nearly 2/3 of the gross domestic product according to findings at the World Economic Forum in Davos, Switzerland. The IIoT, or Cyber Operations, will radically change how humans, machines, and our current infrastructure operate to achieve results and compete in the new digital world. Considered a disruptive technology, Cyber Operations will create new value streams the Digital Oil Field ranging from automated decisions and reactions in real-time to massively improved operational efficiencies, connected infrastructure platforms and much better interaction between machines and humans. The session will outline three ways Cognitive Analytics and artificial intelligence can help bridge the gap between humans and machines to achieve value in the cyber oilfield: Predictive Analytics from a case study in Completions Optimization, Artificial Intelligence and Deep Learning in Seismic Analyses , and Text Analysis from a Drilling Analysis that led to reductions in down time.