



The Impact of Machine Learning on the Semiconductor Test Industry **Greg Smith, President, Teradyne Semiconductor Test Division**

Over the past 10 years, Machine Learning has progressed from computer lab curiosity to become one of the most important drivers of the semiconductor industry. Machine Learning technology underpins autonomous driving, natural language interfaces, gestural recognition and many other applications that are widely deployed and growing fast.

The adoption of new computational architectures has broken through the bottleneck of classic Von Neumann computing and is becoming an important factor in the development of advanced high performance silicon processes and packaging. This is driving unique requirements for semiconductor ATE as well.

This presentation will provide an overview of Machine Learning applications, and the device technology being developed to support them. It will describe the impact of these on semiconductor test business from a commercial and technical perspective. Finally, it will examine the potential application of machine learning technologies to semiconductor test.