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The Analytics of Things

The Internet of Things generates massive amounts of structured and unstructured data, requiring a new class of big data analytics to uncover and capture value. In the hands of talented analysts, these data can generate productivity improvements, uncover operational risks, signal anomalies, eliminate back-office cycles, and even drive enhanced security protocols. But the growing use of sensors isn't limited to industrial equipment and complex systems. The Internet of Things also includes wearables, ranging from smart glasses to smart watches to smart shoes and more—devices that bring entertainment, health monitoring, and consumer convenience to everyday life.

Analytics tools and techniques are already finding their way around the Internet of Things, but the integration of systems is lagging. Both consumer and industrial applications could potentially benefit from industry standards that help avoid the massive programming investments that would otherwise be required. Also, because sensor data tends to be noisy, analog, and high-velocity, there are major challenges that traditional analytics architectures and techniques don't handle well. This is especially true if you want to integrate sensor data and historical structured data in real time.

#AnalyticsTrends2015

The So What:

Ever heard that old saying, “Your eyes are bigger than your stomach”? It’s another way of saying your appetite may cause you to fill your plate with more food than you can actually handle. If there’s a danger in the combination of analytics and the Internet of Things, that’s it. Yes, we’ve reached the moment where the Internet of Things is becoming a day-to-day reality. Yes, if we could make sense of it all, we could do amazing things. And, yes, analytics capabilities are finally strong enough to take it on. Achieving a higher level of integration between analytics systems and their consumer and industrial application counterparts can help bring these insights within reach.

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