Seminar in Pervasive Computing "Internet of Things", SS 2018

Guest Lecture

Date & Time: June 19, 2018; 14:15-15:15
Place: JKU Linz, Science Park 3, HS 19
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The Arduino is just the tip of the IoT-iceberg - trends and challenges in the Internet of Things

By Harald Zeitlhofer and Jürgen Etzlstorfer, Dynatrace

Talk Abstract

Digital transformation has merged new types of devices and various technologies to holistic solutions. By talking about IoT, many think primarily of sensors, micro controllers, Arduinos or Raspberry PIs. Those are essential components though, but the Internet of Things is much more. Powerful backends, typically in cloud environments, form a solid base for the actual logic and intelligence. Sophisticated technologies allow the integration of new data sources, which can provide added value to the overall solution, if leveraged properly. However, that process creates new challenges and demands to the IoT environment, like the migration of processing logic from the backend into powerful devices close to data origins (edge computing). Combined with the advancing integration of human/machine interfaces we see the evolution of a complex, highly scalable IoT landscapes. By using real-life scenarios from different industries we'll show how such systems are designed and how they can be operated efficiently.

Short Bio of Harald Zeitlhofer

Harald Zeitlhofer has 15+ years of experience as an architect and developer of enterprise ERP solutions and web applications with a main focus on efficient and performant business processes, usability and application design. As a Technology Strategist in Dynatrace's Innovation Lab team he influences the Dynatrace product strategy by working closely with customers and driving their performance management and improvement at the front line. He is a frequent speaker at conferences and meetup groups around the world.

Short Bio of Jürgen Etzlstorfer

Jürgen Etzlstorfer is a Technology Strategist and Tech Lead for Microsoft's cloud platform Azure in the Innovation Lab at Dynatrace. He is passionate about cloud technologies and getting things done by automating them. With his strong background in software engineering and research he always strives for getting hands on the latest technologies covering cloud, automation, and self-healing topics. Not only does he research new and emerging platforms and technologies with passion, in fact he also shares his knowledge by writing blogs and speaking at events.