

Spring 2017 Seminar:

EE392b – Industrial Internet of Things: Applications

Time: Tuesdays, 4:30pm-5:20pm
Venue: 450 Serra Mall, Building 200, Main Quad (History Corner), Room 34
Coordinators: Dimitry Gorinevsky and Dan O’Neill, Consulting Professors
Prerequisites: Systems and/or Business Management background
Website: <http://www.stanford.edu/class/ee392b/>

Course Description

Industrial Internet of Things (IIoT) is in the center of the next industrial revolution and predicted to generate \$11-14 Trillion of economic activity in the next decade. The industrial systems have been traditionally supported by secure Operational Technology (OT) networks that provide restricted access and carefully selected functions to critical assets. The key technological novelty of the IIoT is that data with short lifespan in the OT networks is now accumulated in the Big Data IT and used for creating the new value. The IIoT convergence of the OT and IT enables new value-added analytical applications.

The class goal is to present a broad perspective on IIoT with focus on the applications. The class will feature guest lectures from leading industry players to describe and discuss the industry transformation that is being brought by the Industrial IoT. The presenters are asked to help distinguish between the hype and genuine technology trends and opportunities. The lectures will include specific application examples and case studies along with the big picture views. The management consulting and venture capital views of IIoT opportunities will be complemented by discussion of computing platforms for the IIoT. Several IIoT vertical markets will be discussed. Most of the lectures will be presented by guest speakers from the industry. The first lecture by the class coordinators will provide an introduction.

The lectures will include:

1. Introduction into Industrial Internet of Things Applications: Professor Dimitry Gorinevsky
2. Is It Time to Invest in IoT? Angel Investor
3. The Industrial Awakening: The Internet of Heavier Things: KPCB Venture Capital
4. The Analytics of Things for Smart Cities: Teradata
5. Building the Internet of Things: Cisco
6. Enterprise Internet of Things: Konica Minolta
7. Web of Systems: Intel
8. IoT on the Cloud: Oracle
9. Entrepreneurship in IoT: Alchemist Accelerator
10. Asset Performance Management in Industrial Internet: GE