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IoT paradigm for Industrial Internet and for Smart farming and livestock

Abstract

The development of low-cost sensing, low power computing, wireless communications and the Internet foster what it seems a new technological revolution: The Industrial Internet. Small sensing devices that can be embedded in the machines for operation monitoring and reporting the data to a central unit, or other sensors in a production line. Industrial Internet will be build over three elements: Intelligent machines communicating with facilities and with other machines in M2M fashion; Analytics on the measured data for knowledge discovery, process patterns elicit and prediction; and Connecting people in the field with powerful insight about the production process.

Biographical Sketch

Werner Creixell was born in Talcahuano, Chile, in 1972. He received Bachelor and Master degree in Electronic Engineering from Universidad Técnica Federico Santa María (UTFSM) in 1997 and 2001 respectively. In 2006 he received his doctor degree in Information Science and Technology from The University of Tokyo. Since 2009 he is lecturer at the Electronic Engineering Department at the UTFSM. He is also visiting researcher at the "Center for Spatial Information Science" (CSIS) at The University of Tokyo, researcher of the "Centro Científico Tecnológico de Valparaíso" (CCTVAL). His current research interests are Complex Networks, Pattern Recognition, and Mobility patterns. He is actively involved in at least three technological innovation projects two of them related to Industrial Internet. He is passionate about reading, motorbikes, and soccer.