

# Sensor Fusion for Irregularly Sampled Systems

Taiguara Tupinambás

Laboratório de Modelagem, Análise e Controle de Sistemas Não-Lineares (MACSIN)  
Programa de Pós-Graduação em Engenharia Elétrica (PPGEE)  
Universidade Federal de Minas Gerais (UFMG)

21 de Fevereiro, 2019

# Sumário

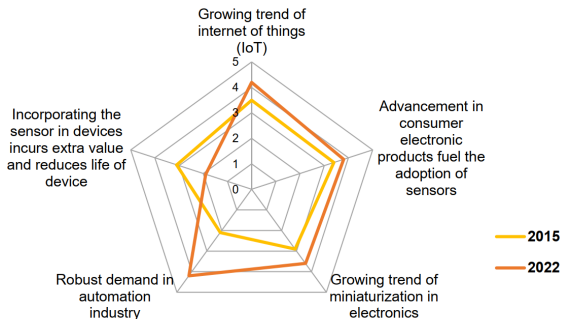
- 1 Motivação
  - Mercado de Sensores

# Sumário

- 1 Motivação
  - Mercado de Sensores

# Crescimento

Mercado mundial de sensores é previsto para crescer a uma taxa de 11.3% a.a. no período 2016-2022 Atingir USD 241 em 2022



Source: Allied Market Research

# Sensor Market

The global industrial sensors market to grow at a CAGR of 7.87% during the period 2018-2022.

Global Industrial Sensors Market 2018-2022, has been prepared based on an in-depth market analysis with inputs from industry experts. The report also includes a discussion of the key vendors operating in this market. To calculate the market size, the report considers the revenue generated from the use of different types of sensors across different industries.

The latest trend gaining momentum in the market is the increasing demand for remote monitoring. The advent of the industrial IoT is expected to represent the biggest opportunity for the development of industrial sensors across different end-user industries.

# Market Size



Source: <https://coinmarketcap.com/all/views/all/> Accessed on: Jul 01, 2018 9:00 PM UTC

# Sensor network complexity

More sensors, more complex networks.

Unsynchronized measurements

Time delays

Aperiodic sampling

# Examples

Big data, HAR with the use of accelerometers and girometers.



# Examples

State estimation