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Data Science Seminars

Friday

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CHALLENGES IN BUILDINGS ENERGY MANAGEMENT AND POSSIBLE CONTRIBUTIONS FROM DATA SCIENCE



Speaker

Pedro Ferreira

Affiliation

LASIGE/DI-FCUL

When

December 11th, 14h30

Where

<https://videoconf-colibri.zoom.us/my/tjvguerreiro>

Abstract

With increased availability of IoT and cloud computing platforms, data collection and monitoring capabilities in buildings have increased significantly. The prospect of accessing energy-related information from buildings in a large scale, enables viable solutions to problems that were known only in theory to have a significant impact on the preservation of energy resources. This talk will present the SATO project, an H2020 project recently funded by the European Commission, coordinated by FCUL. Additionally, open problems in the energy management of buildings will be described as well as possible contributions that data science may bring to solve these problems.

Short bio

Pedro Ferreira, Systems Engineering and Computing (1996), PhD in Electronics Engineering and Computing (2008), is an Associate Professor at the Department of Informatics of FCUL and an integrated member of the LASIGE research unit. He has more than 70 peer-reviewed publications and participated in international and national projects. He currently coordinates the H2020 SATO project. His work focuses on machine learning applications for buildings energy efficiency and cybersecurity application areas. His main research interests are computational/artificial Intelligence methods, artificial neural networks, process modelling, control systems, and prediction/forecasting methods.