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Making Sense of Cloud-Sensor Data Streams via Fuzzy Cognitive Maps and Temporal Fuzzy Concept Analysis

Carmen De Maio, Giuseppe Fenza, Vincenzo Loia, Francesco Orcioli

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Highlights

- definition of an hybrid approach for situation awareness that tries to balance the application of unsupervised data analysis techniques and the use of human expert knowledge to make sense of such analysis results;
- definition of methodology that integrates Temporal Fuzzy Concept Analysis and Fuzzy Cognitive Maps, also supported by semantic technologies, to realize the aforementioned approach;
- as a real-world scenario we consider the recognition of human activities and the projection of them in the near future to address, for instance, energy saving, safety issues, and so on.

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