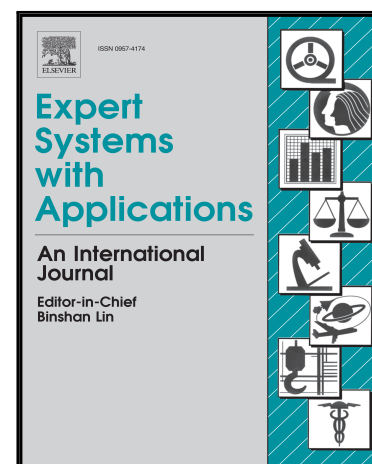


## Accepted Manuscript

Ensemble classifier of Long Short-Term Memory with Fuzzy Temporal Windows on binary sensors for Activity Recognition

Javier Medina-Quero, Shuai Zhang, Chris Nugent, M. Espinilla

PII: S0957-4174(18)30493-7  
DOI: [10.1016/j.eswa.2018.07.068](https://doi.org/10.1016/j.eswa.2018.07.068)  
Reference: ESWA 12122



To appear in: *Expert Systems With Applications*

Received date: 11 January 2018  
Revised date: 28 July 2018  
Accepted date: 29 July 2018

Please cite this article as: Javier Medina-Quero, Shuai Zhang, Chris Nugent, M. Espinilla, Ensemble classifier of Long Short-Term Memory with Fuzzy Temporal Windows on binary sensors for Activity Recognition, *Expert Systems With Applications* (2018), doi: [10.1016/j.eswa.2018.07.068](https://doi.org/10.1016/j.eswa.2018.07.068)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- We propose a representation based on Fuzzy Temporal Windows for binary-sensors
- Long Short-Term Memory is deployed as a means of sequence classifier
- A balanced training is included to build an ensemble of activity-based classifiers
- The proposed approach is evaluated and benchmarked against previous approaches

Download English Version:

<https://daneshyari.com/en/article/6854688>

Download Persian Version:

<https://daneshyari.com/article/6854688>

[Daneshyari.com](https://daneshyari.com)