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# AVIS DE SOUTENANCE EN VUE DE

**L’HABILITATION A DIRIGER DES RECHERCHES**

Discipline : STI

Madame Meryem Jabloun

présentera ses travaux en vue de l’habilitation à diriger des recherches

Le Mardi 19 Mars à14h00 heures

Lieu : à l’amphithéâtre Turing, bâtiment Galilée Polytech Orleans

12 rue de Blois, 45100 Orléans

devant le jury constitué par les personnalités suivantes :

* M. Pierre Borgnat
* M. Steeve Zozor
* M. Osvaldo A. Rosso
* Mme Corinne Mailhes
* M. Ales Holobar
* Mme Anne Humeau-Heurtier
* M. Philippe Ravier
* M. Olivier Buttelli

## Résumé des travaux :

In my presentation, I provide an overview of my research topics, highlighting the significant contributions made by my doctoral students. A substantial portion of my work has been dedicated to advancing ordinal pattern-based methodologies, particularly in the context of analyzing biomedical signals.

Ordinal pattern-based techniques have garnered considerable interest in recent years, particularly ordinal pattern-based entropies, which serve as complexity measures for assessing the informational content within time series data. Their versatility extends across various domains, including biomedical signal processing, image analysis, fault diagnosis in mechanical systems, financial modeling, and beyond. Moreover, they have practical applications in analyzing multidimensional time series datasets.

The objectives of my presentation are twofold. Firstly, it aims to address theoretical inquiries that deepen our understanding of the applicability and efficacy of ordinal pattern-based entropies. Secondly, it seeks to explore emerging areas and novel concepts within the ordinal pattern-based methodologies.