

Supplementary material for the paper titled
“Early classification of time series by
simultaneously optimizing the accuracy and
earliness”

p-values for the statistical tests performed in the paper

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In this document, we provide the p-values of the statistical tests included in the main manuscript. Specifically, as explained in the paper, we have applied the permutation test [1] and have corrected the p-values using the Holm-Bonferroni post-hoc test to control the family-wise error:

$\alpha = 0.6$	ECDIRE	Rel.Class.	ECTS	EDSC
SR1-CF1	0.0006	0.0157	0.0006	0.0006
SR2-CF1	0.0006	0.0685	0.0006	0.0006
SR2-CF2	0.0006	0.0326	0.0007	0.0006
SR2-CF3	0.0006	0.0685	0.0006	0.0006
$\alpha = 0.7$	ECDIRE	Rel.Class.	ECTS	EDSC
SR1-CF1	0.0006	0.0279	0.0006	0.0006
SR2-CF1	0.0006	0.0149	0.0006	0.0006
SR2-CF2	0.0006	0.0098	0.0006	0.0006
SR2-CF3	0.0006	0.0149	0.0006	0.0006
$\alpha = 0.8$	ECDIRE	Rel.Class.	ECTS	EDSC
SR1-CF1	0.0006	0.0006	0.0006	0.0006
SR2-CF1	0.0006	0.0006	0.0006	0.0006
SR2-CF2	0.0006	0.0006	0.0006	0.0006
SR2-CF3	0.0006	0.0007	0.0006	0.0006
$\alpha = 0.9$	ECDIRE	Rel.Class.	ECTS	EDSC
SR1-CF1	0.0006	0.0006	0.0006	0.0006
SR2-CF1	0.0006	0.0007	0.0006	0.0006
SR2-CF2	0.0006	0.0006	0.0006	0.0006
SR2-CF3	0.0006	0.0007	0.0006	0.0006

Table 1: p-values for the domination counts obtained when comparing our method with GP-s and ECDIRE, ECTS, EDSC and Rel.Class.

References

- [1] Bonnini, S., Corain, L., Marozzi, M., Salmaso, L., 2014 Nonparametric Hypothesis Testing. Wiley.