

Results: KS Statistic between Features

April 10, 2019

Kolmogorov-Smirnov statistic between features of different music genre.

Two-sided test.

Null hypothesis: The two features are drawn from the same distribution.

The numbers in the tables are the KS statistic. The p-value are denoted in parenthesis.

(-): $\text{p-value} \geq 0.05$

(*): $0.05 > \text{p-value} \geq 0.01$

(**): $0.01 > \text{p-value}$

Table 1: Unweighted Abruptness

	CLASSICAL	FOLK	JAZZ	ROCK	POP
CLASSICAL		0.04 (*)	0.27 (**)	0.21 (**)	0.26 (**)
FOLK			0.28 (**)	0.22 (**)	0.27 (**)
JAZZ				0.10 (*)	0.05 (-)
ROCK					0.08 (-)

Table 2: Weighted Abruptness

	CLASSICAL	FOLK	JAZZ	ROCK	POP
CLASSICAL		0.03 (*)	0.26 (**)	0.22 (**)	0.25 (**)
FOLK			0.28 (**)	0.24 (**)	0.27 (**)
JAZZ				0.10 (*)	0.05 (—)
ROCK					0.07 (—)

Table 3: Branching

	CLASSICAL	FOLK	JAZZ	ROCK	POP
CLASSICAL		0.45 (**)	0.45 (**)	0.53 (**)	0.52 (**)
FOLK			0.17 (**)	0.14 (**)	0.13 (*)
JAZZ				0.20 (**)	0.17 (**)
ROCK					0.09 (—)

Table 4: Repeatedness

	CLASSICAL	FOLK	JAZZ	ROCK	POP
CLASSICAL		0.06 (**)	0.21 (**)	0.15 (**)	0.17 (**)
FOLK			0.27 (**)	0.20 (**)	0.23 (**)
JAZZ				0.19 (**)	0.09 (—)
ROCK					0.18 (**)

Table 5: Melodic

	CLASSICAL	FOLK	JAZZ	ROCK	POP
CLASSICAL		0.08 (**)	0.24 (**)	0.11 (**)	0.09 (—)
FOLK			0.27 (**)	0.11 (**)	0.12 (**)
JAZZ				0.30 (**)	0.18 (**)
ROCK					0.14 (**)