Algorithm 1 Computation of MMPD between two cyclic granularities $A = \{a_j : j = 1, 2, \ldots, J\}$, $B = \{b_k : k = 1, 2, \ldots, K\}$ with A placed across x-axis and B across facets.

1: **procedure** RawMMPD($A = \{a_j : j = 1, 2, \ldots, J\}$, $B = \{b_k : k = 1, 2, \ldots, K\}$, $v = \{v_t : t = 1, 2, \ldots, T\}$).
2: **for** $k = 1 : K$ **do**
3: Find distances between pairs of all possible combinations of x-axis categories (a_j, a'_j) by computing JSD between quantiles of the measured variable $q(v)$ across these combinations.
4: $d \leftarrow JSD(\widetilde{q(v)}_{a_j b_k}, \widetilde{q(v)}_{a'_j b_k})$
5: $m \leftarrow max(\mathrm{d})$ ▷ maximum pairwise distance within each facet
6: **end for**
7: Set MMPD as $median(m)$ where median is taken over all k.
8: **end procedure**