SSTS sentence queries **Document Generator Documents** S2 S1 Pre-Processing smoothing S1 Flat Rise Fall Rise Flat Fall Rise Flat symbolic derivative Flat Connotation Rise p+ Valley Peak Valley Sm 25 D1 0.05 n+ Fall zzpnppppzzzzzz Flat Z+ query rising patterns S2 $p+z\{,10\}n+$ Peak $n+z\{,10\}p+$ Valley Sm 25 D1 0.05 $p+z\{10,\}n+$ pPlateau Flat Rise Flat Rise Flat Rise Flat $n+z\{10,p+$ nPlateau Fall Rise Flat Peak Valley zzpnppppzzzzzz Peak Valley Flat Rise Fall Rise Flat