

DTW

Ex. on time series distance

$t_1 = 1 \ 0 \ 2 \ 7 \ 4 \ 0$
 $t_2 = 2 \ 6 \ 1 \ 2 \ 1 \ 1$

$$d(x, y) = |x - y|$$

$$DTW(t_1, t_2) = 11$$

P2P cost

1	0	1	1	6	3	1
1	0	1	1	6	3	1
2	1	2	0	5	2	2
1	0	1	1	6	3	1
6	5	6	4	1	2	6
2	1	2	0	5	2	2
1	0	2	7	6	0	



Cumulative Cost

1	7	8	9	14	15	11
1	7	8	8	13	12	10
2	7	8	7	12	9	9
1	6	7	8	10	7	7
6	6	7	7	4	6	12
2	1	3	3	8	10	12
1	0	2	7	4	0	

EX ON SUBSEQUENCES AND TIME CONSTRAINTS

$S = \{A\} \ \{ABF\} \ \{BF\} \ \{EFF\} \ \{G\} \ \{A\} \ \{AB\} \ \{E\}$
 $t_0 \quad t=1 \quad t_2 \quad t_3 \quad t_4 \quad t_5 \quad t_6 \quad t_7$

MATCH W

MATCH MAX GAP = 2

$N = \{B\} \ \{E\}$

$\langle 1, 3 \rangle$	$\langle 1, 7 \rangle$
$\langle 2, 3 \rangle$	$\langle 2, 7 \rangle$
$\langle 6, 7 \rangle$	

$\langle 1, 3 \rangle$	$\langle 2, 3 \rangle$
$\langle 6, 7 \rangle$	