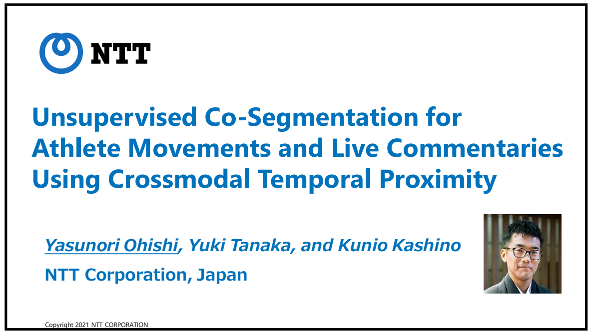
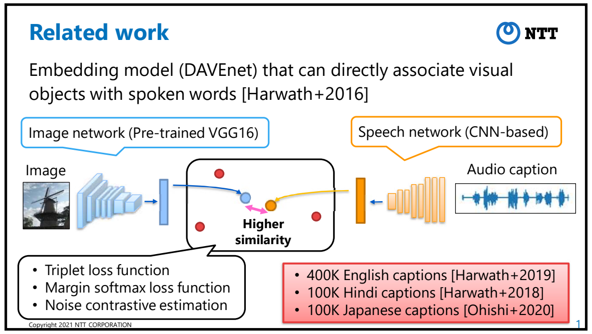
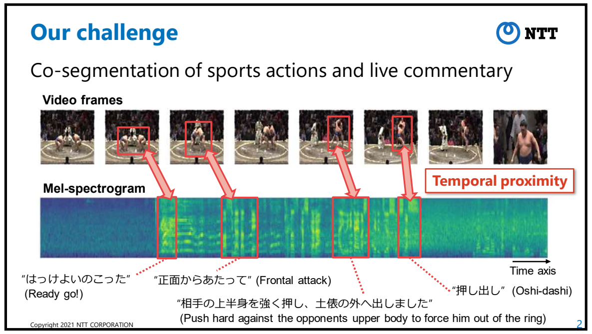
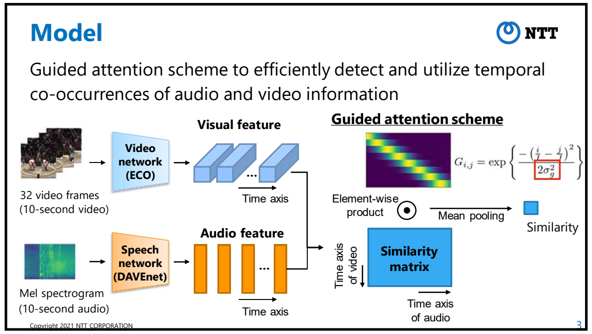
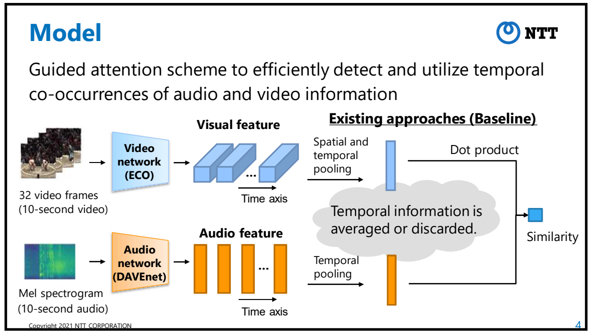
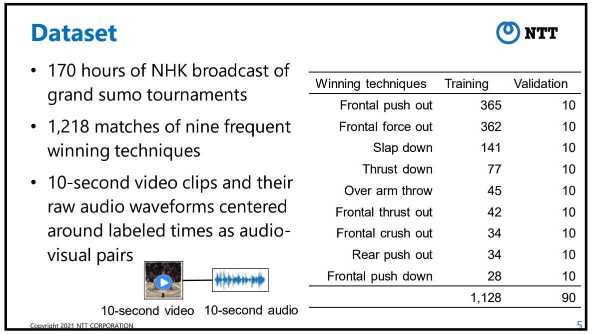




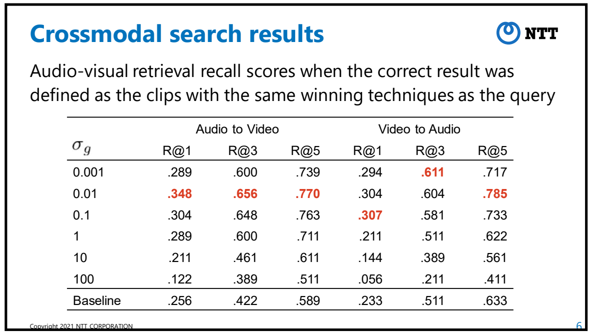








Winning techniques	Training	Validation
Frontal push out	365	10
Frontal force out	362	10
Slap down	141	10
Thrust down	77	10
Over arm throw	45	10
Frontal thrust out	42	10
Frontal crush out	34	10
Rear push out	34	10
Frontal push down	28	10
	1,128	90



	Audio to Video			Video to Audio		
σ_g	R@1	R@3	R@5	R@1	R@3	R@5
0.001	.289	.600	.739	.294	.611	.717
0.01	.348	.656	.770	.304	.604	.785
0.1	.304	.648	.763	.307	.581	.733
1	.289	.600	.711	.211	.511	.622
10	.211	.461	.611	.144	.389	.561
100	.122	.389	.511	.056	.211	.411
Baseline	.256	.422	.589	.233	.511	.633