## Making Spatial Play Visible Using Open-Pose

Video	Measurement	Play
mostly static	player trajectory / positioning	Conditions:
ground level view	speed	outdoor & indoor
covers middle playground	distance/proximity between players	with technology / without
players go in&out of shot	distance/proximity from objects	different types of games / different tools
3-4 children at a time	stop/start	
individual microphone speech	movement amount	Aspects:
	movement consistency (average speed, movement amount across time, movement around play objects, covered playground area) amount / direction of speech orientation of the body	joint attention collaboration engagement with game / transition between different games engagement with toys made available play type (behaviour) game type (nature of game) groupings (who plays with who) social roles social competence play preferences use of playground space (scattered play) physical activity stages of the game type of movement - individual, in relation to other players, as a group competitive / cooperative play

## Video observations:

Social 'roles' - more / less dominant players - leaders / participants attention / engagement with each other (more or less with different players) attention / engagement with different games (switching between games) cooperative / competitive play

## Questions:

What can we predict / correlate with?

- engagement (positive / negative)
- attention (obvious vigilance towards other players / no vigilance towards other player)
- social roles
- overall group dynamic

What can we measure with the given data?

- movement (static / active / amount / quality)
- body posture (upper body / lower body moving/stopped; up/down)
- synchronisation between players