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A compass towards equity: a data analysis framework to capture children's behaviour in the playground context

Nasri, M.

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Propositions

A Compass Towards Equity; A Data Analysis Framework to Capture Children's Behaviour in the Playground Context - Maedeh Nasri

- *Propositions relating to the field of the subject of the dissertation*

1. Collecting and analyzing wearable data provide insights into users' experiences in micro-communities, e.g., children's behavior in playgrounds, comprehensively and unobtrusively.
2. In playgrounds with equal access, all children, especially those with communication barriers, feel welcome, accepted, and included.
3. Creating an inclusive playground requires a deep understanding of children's capacities and a careful assessment of the playground's limitations and possibilities.
4. A data analysis framework can capture individuals' behaviors at interpersonal and environmental levels and serve as a compass toward equity in the playground context.

- *Propositions relating to the subject of the dissertation*

5. (*chapter 2*) Interpreting the sensor data through the lens of affordances theory offers insights into children's interaction with their physical, social, and cultural environments.
6. (*chapter 3*) Enhancing the social environments around the child starts with improving what the physical environment provides for children.
7. (*chapter 4*) While sensor data reveals how children interact with their environments, subjective measurements uniquely capture their personal experiences in playgrounds.
8. (*chapter 4*) Analyzing affordances in playgrounds and children's effectivities in their actualization of these affordances leads to inclusive playgrounds.
9. (*chapter 5-6*) Analyzing the spatio-temporal dynamics of children provides insights into children's interaction with their physical and social environments.

- *Propositions on societal subjects:*

10. The proposed data analysis framework can be applied to analyze individual behaviors and identify both individual and group-level challenges within micro-communities.