INFLUENTIAL FACTORS ON ENHANCING INTERMEDIARY SPACES IN THE NEIGHBORHOOD AS A CONTEXT OF CHILDREN’S WALKING TO SCHOOL

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INTRODUCTION

School journey

Intermediary spaces
RESEARCH AIMS

To discover children's favorite affordances at intermediary spaces in their school journey

To encourage children to choose walking travel mode to school

To reveal the qualities of intermediary spaces as playspaces connected with home-school way

To enhance children's physical, cognitive and social functioning

To suggest the sense of attachment and belonging of children towards their places
RESEARCH OBJECTIVES

1. To determine the influential factors on children’s choice of walking travel mode.
2. To evaluate some barriers that hinder children’s walking to school.
3. To identify children’s favorite affordances of playspaces which encourage them to walk to school.
SCOPE OF THE STUDY

To explore behavioral responses of elementary school students

Children's relationship with playspaces in home-school ways

To evaluate affordances of playspaces

Discuss about some barriers to walk to school through the playspaces

Arranged playspaces

Influence on parental decision about children's walking travel mode

Influence on physical, cognitive and social functioning of children
RESEARCH METHODOLOGY

Behavioral mapping

Survey Questionnaire

Interviews

- Children's Interview
- Parents' Interview
- Teacher's Interview

Analysis

1) Frequency Analysis
2) Factor Analysis
3) Confirmatory Factor Analysis

Survey Questionnaire

- Children's preference
- Children's needs
- Children's perception
- Parents’ preference
- Parents’ anxiety
- Parents’ limitations
- Parents’ fear
- Neighborhood’s problem
- Children’s fear
- Children’s needs
- Environmental problems around school

Children’s spatial knowledge regarding to their travel mode to school

• Orientation
• Positioning
• Routing

• Time
• Distance
• Children’s Preference
• Children’s barriers
• Affordances of playspaces
• Parental decision
• Social interaction
• Independent mobility
• Travel mode

Research Methods

Interviews

- Children’s Interview
- Parents’ Interview
- Teacher’s Interview

Behavioral mapping

Blank Map

Sketch Map

Analysis
RESEARCH OUTCOMES

Frequency Analysis

A descriptive statistical method that shows the occurrences of each response selected by the respondents. The percentages of the values of individual variables were calculated to find the children's percentage of preferences regarding each variable.

Factor Analysis

Confirmatory Factor Analysis

- Attention to natural & manmade elements
- Place attachment for play
- Play preference
- Influence of parents' presence on social interaction
- Play effect on accuracy, happiness, learning

Validity

Reliability

Validity

Reliability

KMO & Bartlett's Test

Sample size: 399
Confidence level: 95%

Cronbach's Alpha: 0.921
Spearman Correlation: 0.831

Structural Equation Modeling

KMO & Bartlett's Test (Sample 1) 0.919
KMO & Bartlett's Test (Sample 2) 0.909
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for your attention