

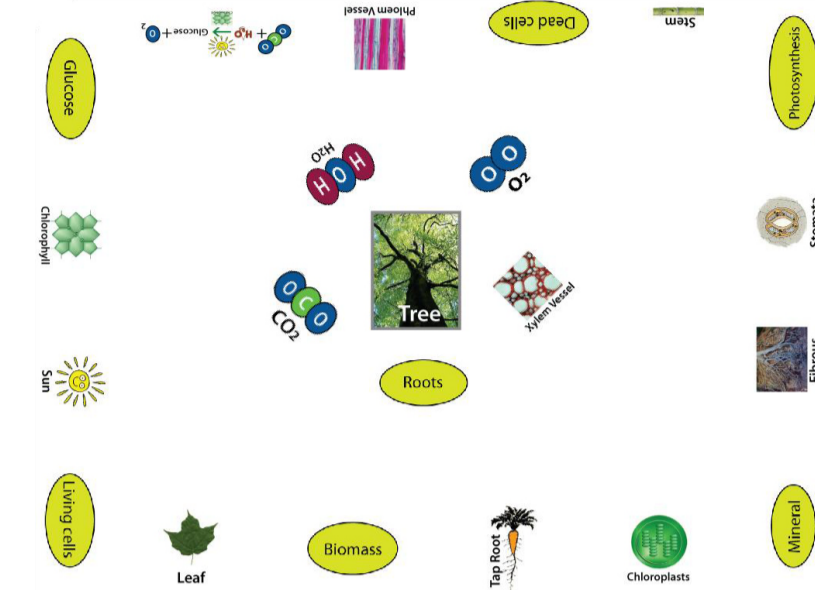
Group Interaction on Interactive Multi-touch Tables by Children in India

INTRODUCTION

1. Multi-touch tabletops in a local school in Delhi, India
2. Observational study:
 - Collaboration strategies
 - Touch input technique

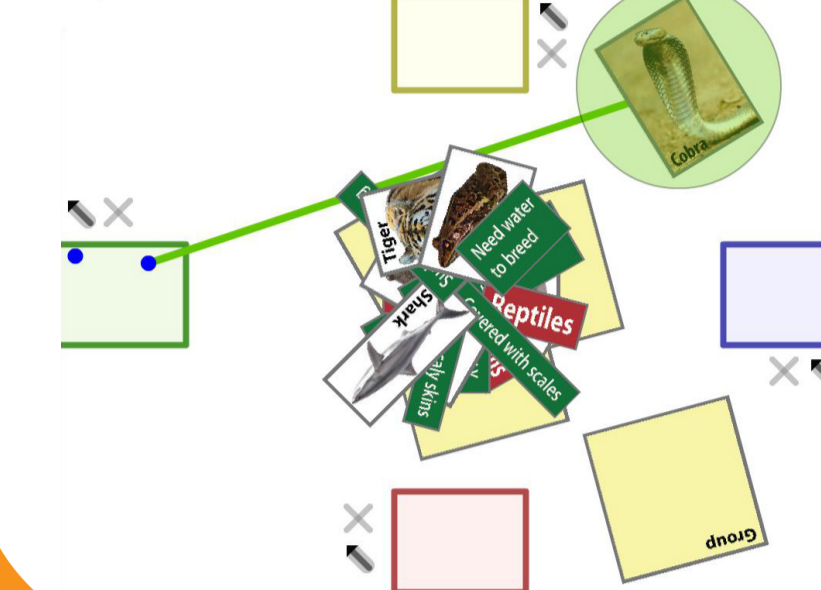
TASKS & TECHNIQUES

Collaborative Learning Tasks:



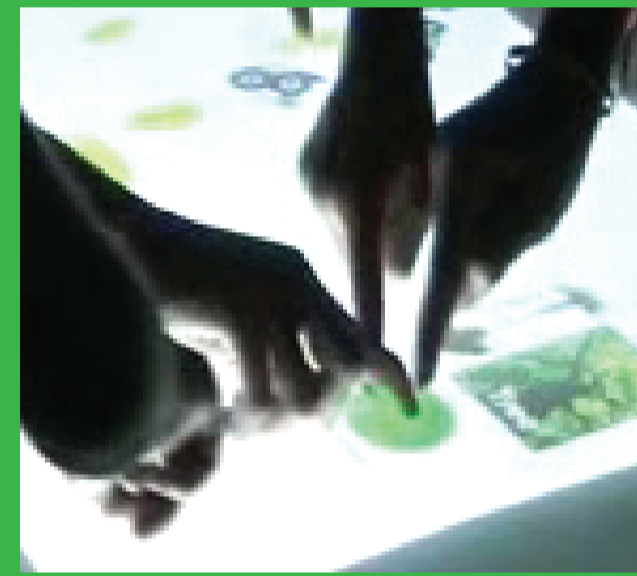
1. Spider diagram
2. Classification

Interaction Techniques:

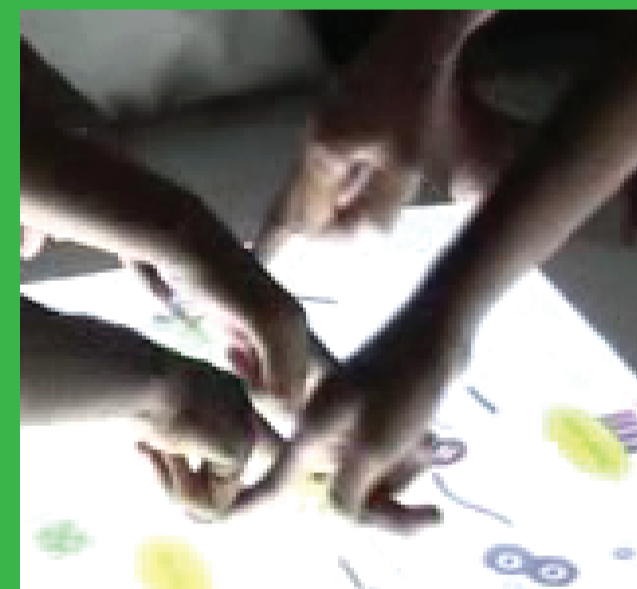


1. Direct touch
2. Pantograph

GROUP ACTIONS

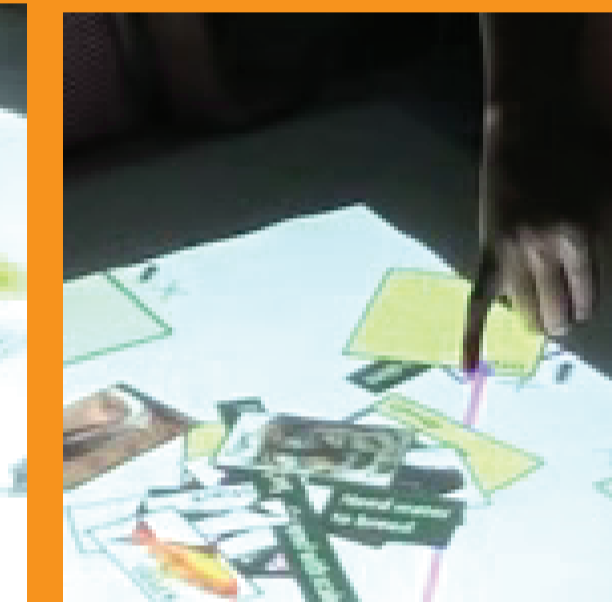
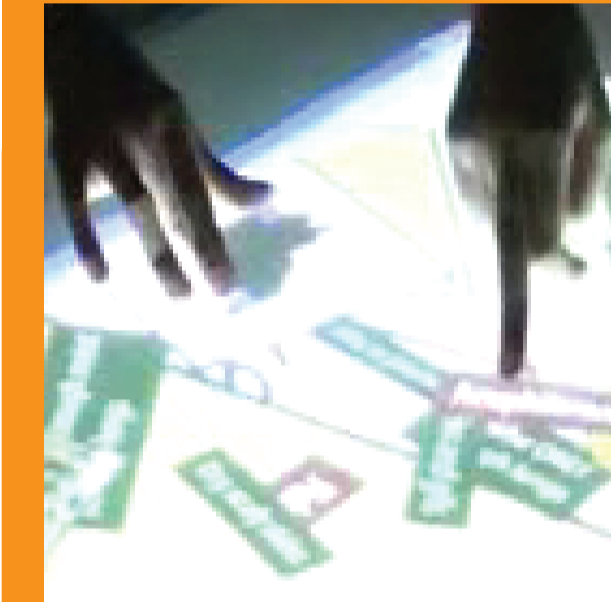


1. Simultaneously move an object
2. No appearance of conflict
3. Demonstrate understanding to each other



1. 'Crowded conditions' - several activities happening
2. Cohesiveness and engagement
3. Awareness of each others' actions

MULTI-FINGER TOUCH TECHNIQUE



Actions seen:

- Move digital objects
- Draw lines
- Using both techniques

1. Beyond the typical thumb-index finger combination
2. Fingers used: thumb, middle and little fingers
3. Expressing themselves & drawing attention

IMPLICATION: GROUP ACTION

1. Performance attitude is valuable in group tasks
2. Natural group behaviour and shared understanding is seen
3. Allow children to work anywhere on surface without restrictions

IMPLICATION: MULTI-FINGER

1. Children applied touch input that seemed natural to them
2. Important to understand the existing 'natural' techniques of users
3. Design interaction techniques that support the 'organic' flow of digital object interaction

MORE INFO



Izdiyar.Jamil@bris.ac.uk
big.cs.bris.ac.uk

I'm also looking for Post-Doc positions!