Social dimensions of situational interest in young adults in an exergame setting: an exploratory study

The 19th ACAPS international congress
Montpellier from 27 to 29 October

Le Pape Steven, Bernier Marjorie, Bossard Cyril, Regaieg Ghada & Kermarrec Gilles
Introduction

Smartphones, **exergames**, and virtual reality games seem to offer an interesting perspective for **promoting Physical Activity (PA)** (Kinnafick & al., 2016; Muellmann & al., 2016; Fu & al., 2019).

Evidence of exergames’ effects on PA and Situational Interest (SI) (Sun, 2013; Gao & al., 2015; Pasco & al., 2016; Roure & al., 2019)

Multiplayer condition is identified as crucial for PA (Peng & Crousse, 2013; Faric & al., 2019; Roure & al., 2021)
Theory of interest
Deci (1992)
Krapp & al., (1992)

Personal interest
Stable

Situational interest (SI)
Fluctuating

- Novelty
- Challenge
- Attention demand
- Exploration intention
- Instant enjoyment

Deci (1992)
Chen & al., (1999)
Objective

Identify collective dimensions of situational interest

1. All SI dimensions have a social component.

2. There is one or more new SI dimensions

Objective

Identify collective dimensions of situational interest

1. All SI dimensions have a social component.

2. There is one or more new SI dimensions
Materials and methods

**Participants**
14 students
- 9 women, 5 men
  - Mage = 21.2

PA level (IPAQ, Craig et al., 2003) =
- Low (n=5)
- Moderate (n=5)
- High (n=4)

**Situation**
- Cooperation
- Competition
- With support
- Alone

**Data collection**
- Retrospective verbalisations
- Semi-structured interview with visual recall
  - Average duration = 24 min 31 sec

**Data analyses**
- Thematic analysis (Braun & Clark, 2006; 2016)
  - Analysis using Nvivo software
<table>
<thead>
<tr>
<th>Results</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Collective enjoyment</strong></td>
<td><strong>Co presence</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Doing together</strong></td>
</tr>
<tr>
<td><strong>Intention of collective exploration</strong></td>
<td><strong>Communicating together</strong></td>
</tr>
<tr>
<td><strong>Collective challenge</strong></td>
<td><strong>Challenge with</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Challenge against</strong></td>
</tr>
</tbody>
</table>

**Results**

190 MUs
Discussion

1. Continuity of the individual SI model
   - Collective challenge
     Nunes & al., 2014
   - Collective enjoyment
     Peng & Crouse, 2013
   - Intention of collective exploration

2. Evolution of the individual SI model
   - Support
     Chan & al., 2019

Social Situational Interest

ACAPS 2021
**Conclusion**

**Interest**

Expanding the theoretical framework of interest

**Perspectives**

Enrich the existing SI measurement scale (Roure & al., 2015)

Building an intervention study with the social dimension of SI
Thank you for your attention. Any questions?

Social dimensions of situational interest in young adults in an exergames setting: an exploratory study

The 19th ACAPS international congress Montpellier from 27 to 29 October

Le Pape Steven, Bernier Marjorie, Bossard Cyril, Regaieg Ghada & Kermarrec Gilles