

CSG: A communicative Game for Interactive Floors

Daniel Birnstiel, Patrick Kuhn, Fabian Paul, Lennard Wolf

Hasso Plattner Institute
Prof.-Dr.-Helmert-Str. 2-3
14482 Potsdam, Germany
{ daniel.birnstiel, patrick.kuhn, fabian.paul, lennard.wolf }@student.hpi.de

ABSTRACT

After looking upon the possibilities of interactive floors and taking into account the immense demand for video games today, we developed *CSG*, or *Cooperative Spaceship Game*. *CSG* is designed as a prototype for communicative, interactive floor based games and demonstrates, how playing games at home can once again involve moving the entire body again - and not just your thumbs.

The two to three players' goal is the joint reaching of levels by performing tasks that are randomly given to each player. These tasks can then be carried out by the player himself or he can tell his partners to do it for him since they are closer to the task-subject.

Author Keywords

Cooperative Spaceship Game; Communication; Interactive Floors; Body Movement

INTRODUCTION

With the advent of the *Internet of Things* and thus the rising digital Interaction with everything around us, floors will soon become intelligent entities just like our phones are today.

But next to all the productive things we can now do with our devices, we also want to integrate them into our leisure time. Just like touch screens revolutionised the way we play games, interactive floors will again push the boundaries of the way we think about enjoying ourselves through games.

To understand what players want from a game, we interviewed a professional Game Designer, a Game Design Lecturer as well as a few gamers - both casual and somewhat professional. We learned that nowadays players have a lower attention span and thus want to understand the game right away.

This is why we started out contemplating different mini

games and at some point even considered a mini game collection. But what we saw as the main advantage of an interactive floor based game was the fact that the player might not be alone, but rather be in the same room with others and cooperate.

This is why we chose to concentrate on three main goals for our project: **Communication**, **Cooperation** and **Discoverability**.

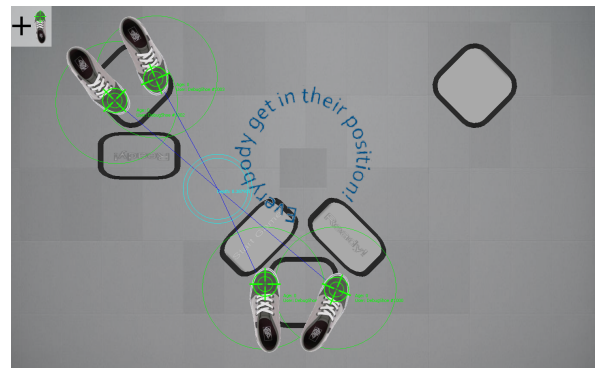


Figure 1. Here you can see the beaming area.

THE CONCEPT OF THE GAME

The game is set on a spaceship, which is on the edge of destruction and the players on earth are the astronauts to save the ship. They have to get on the beaming platforms to beam onto the spaceship, where they get their tasks. These tasks involve flipping switches and pressing buttons, which make up the control bridge of the ship.

Since these widgets are not always close to the player who got a new task, he will often have to tell his partner(s) to do it for him instead. But a task is only active for a limited amount of time and if a task is not performed in time, it's game over. After a certain number of tasks the players will get to a new and harder level where all controls will change and the game goes on. Winning as such is *not* possible, the motivation is rather staying alive for as long as possible.

WALKTHROUGH

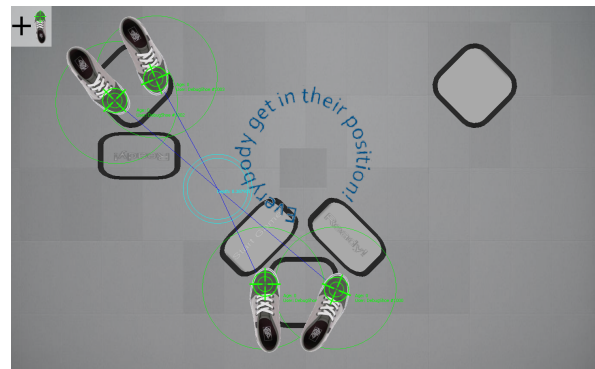
Hier kommt die Introduction zum Walkthrough

The Beaming Area

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The diagram shows a top-down view of a robot localization problem in a grid world. Two robots are positioned at different locations, each represented by a pair of sneakers. Green circles around the sneakers indicate their local sensor range or uncertainty. Blue lines connect the robots to various landmarks in the environment, which include rectangular blocks and a diamond-shaped feature. The text "body get in their position" is written in blue, curved letters across the center of the grid.



Avoiding roles as game mechanic Originally we came up with the idea of having different roles who are able to carry out certain tasks. For example role of the captain was assigned to the first person entering a beaming platform and was able to

Objects	Caption — pre-2002	Caption — 2003 and afterwards
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Table 1. Table captions should be placed below the table.

start the game. In our paper prototyping, most of the testers asked about the meaning of the roles. Explaining the concept at this time in the game would require adding a tutorial and make the game harder to discover.

In our final design we replaced the concept of roles by making tasks more specific.

Design Concept 4

Warum ist unser Design immer noch das beste fr den job?

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ACKNOWLEDGMENTS

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