

KTS Project Newsletter



Kheiron Training System

Project Newsletter No.3 25/05/2015

About the KTS Serious Game

The game follows the story of a young alchemist and his/her quest in finally creating the "Philosophers Stone".

To do that, the protagonist (player) will have to pass through creating a number of other objects first, so that his/her knowledge expands as well as use those before he/she has the capability to complete his/her quest, to create the Philosophers Stone.

Below we have selected a couple of in-game screenshots:















The following tasks are selected as candidates to be integrated in the KTS serious game:



Moving back & forth





Grasping objects





Learning Objectives

- Improve visual perception;
- Improve hand-eye coordination;
- Learn how to perform movements that are done with the dominant hand safely with the non-dominant hand;
- Improve the significantly reduced depth perception;
- Enhance movement accuracy;
- Learn how to perform accurate movements;
- Perfect bimanual skills.

Next step: Validation

During the last stage of the project, the KTS serious game will be carried out in four different countries: Spain, Germany, Hungary and Romania during the last four-month term 2015. For validation, users will be able to play and test the serious game under the guidelines defined by the consortium members in order to achieve comparable results between the different validation sites.

A questionnaire will be designed with questions for residents and medical students for evaluating the KTS serious game after the trials.

General themes that will be covered by the questionnaire might inlcude:

Sufficiency of the Serious Game introduction Skills improved by the Serious Game Easiness of use
Skills gaind by playing are usefull in the Operating Room Level of enjoyment using the Serious Game

If you want to participate in the validation of the KTS serious game, do not hesitate to contact the responsible of your country to check availability:



Second Progress Meeting in Budapest

Topics discussed at the Second Progress Meeting (May 10th-12th, 2015) in Semmelweis University, Budapest:

- Serious game architecture relevant scenarios/tasks/skills / competencies integrated into the serious game
- Results of the serious game development
- Validation Plan
- Quality Plan
- Administrative issues

The 23rd Congress of the European Association of Endoscopic Surgery (**EAES**) will take place in June 3rd - 6th in Bucharest, Romania

Visit the congress' webpage at tiny.cc/EAES



Dissemination Activities

The 23rd Congress of the European Association of Endoscopic Surgery (EAES) will take place in June 3rd - 6th, 2015 in Bucharest, Romania.

KTS project will have a booth in the congress exhibition area, displaying a roller up with general information about the project. In the same time, a video about the KTS serious game will be showed continuously for the visitors. Dr. Călin Tiu will offer explanations about the project and about the game to the interested persons.

Besides, Dr. Sánchez-Margallo will also present an electronic poster entitled "Pyschomotor skills training in minimally invasive surgery through the use of serious games: Kheiron Training System", describing the project development.

Dr. Werner Korb held a presentation about the KTS Serious Game at the "132. Kongress der Deutschen Gesellschaft für Chirurgie" (http://www.chirurgie2015.de/) in Munich. The event took place from April 28th until 1st of May.

Future Dissemination Events



29th International Congress and Exhibition Computer Assisted Radiology and Surgery (CARS2015), to be held in Barcelona on June 24th -27th 2015. A poster entitled "E-learning serious game for surgical skills training: kheiron training system" will be presented.

19th Edition of the Course on Spinal Advanced Microsurgery (www.sam-course.de) to be held in Munich from September 30th to October 2nd 2015. The KTS Demo will be presented to the German surgeons.

National Surgery Conference to be held in Bucharest, Romania, on October 14th - 17th 2015, at the Palace of Parliament. The KTS Demo will be presented to the Romanian surgeons.

33rd Annual Congress of the Spanish Society of Biomedical Engineering (SEIB) (http://caseib2015.gbt.tfo.upm.es/), to be held in Madrid on November 4th-6th. A presentation about KTS Serious Game will take place.

Consortium



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