PROCeed Serious Gaming

Role-playing games for improvement of situational awareness in simulated scenarios, and training of tactical decision making visualisation of consequences

PROCeed Serious Gaming is a computer platform for rising the crisis situational awareness and training in decision makers by role playing in simulated situations

Interactive decision-making games at tactical level can be created and run on the platform with the visualisation on a map as well as can be utilized as a tool for 'what-if' analysis. Exact mapping of an actual course of a given crisis situation is possible using simulation techniques, taking into account all necessary roles, decisions, phenomena, physical objects, or elements of the environment.

By observing dynamically changing simulated situation, the user of the system can make decisions influencing the story line and challenging the next players behaviour.

Main features

Multiple-variant scenarios— each course of the game may differ from the previous ones

Dynamics —computer simulated situation undergoes continuous changes

Collaborative strategies —every player, being a member of a team, interacts with other players in the scope determined by his/her role

Interactivity —the players can influence the situation by solving decision-making problems

Map-based visualisation — visualisation and control of objects on a situation map

Remote access —every player can take part in the game from any place via a computer network

PROCeed Serious Gaming Implementation

PROCeed Serious Gaming is at TRL9. It has been successfully used by almost 20 Polish universities at civil protection and safety faculties for last ten years. The games are available online, on software licence terms.

A level of specificity of the simulated situation, the methods of its visualisation, and the scope of an interaction of a user is determined by appropriate models prepared individually for each simulation application. The models can be either based on simple predefined dependencies, or can include complicated mathematical-physical operations accurately reflecting dynamics of selected events (e.g. flood or fire). Due to the universality and flexibility of the PROCeed system, it is possible to prepare and exploit detailed models of a selected part of reality, and to adjust methods of presentation of a stage of a situation to the particular requirements of a user.