brought to you by

Adaptation and Assessment (TwoA) asset in C# (v1.2)

Citation for published version (APA):

Nyamsuren, E. (Author). (2017). Adaptation and Assessment (TwoA) asset in C# (v1.2). Software, Open Universiteit Nederland.

https://github.com/rageappliedgame/HatAsset/tree/1b9b82c777ac48d97bdb8868f1488819d6bb5d52

Document status and date:

Published: 23/03/2017

Document Version:

Peer reviewed version

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

Link to publication

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
 You may not further distribute the material or use it for any profit-making activity or commercial gain
 You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

https://www.ou.nl/taverne-agreement

Take down policy

If you believe that this document breaches copyright please contact us at:

pure-support@ou.nl

providing details and we will investigate your claim.

Downloaded from https://research.ou.nl/ on date: 09 Sep. 2021



Title

Adaptation and Assessment (TwoA) asset in C# (v1.2)

Authors

Enkhbold Nyamsuren

Abstract

Developed within the RAGE project funded by EU within Horizon2020 program. This asset enables a real-time automatic adaptation of game difficulty to player's expertise level. The adaptation algorithm makes use of a stealth assessment algorithm that assigns difficulty ratings and expertise ratings to the players and the game modules respectively. The asset tracks changes in these ratings allowing assessment of players' learning progress either by players themselves or by instructors. This is the version written in C# language.

Version 1.2 includes considerable extensions to the TwoA functionalities:

- API for building scenario dependency graphs
- An improved scenario selection algorithm
- The second module for adaptation and assessment based on continuous accuracy only
- Extended parameter setting API

Screen shots

none

Version & change log

Version	Date	URI
1.2	23-Mar-2017	https://github.com/rageappliedgame/HatAsset https://github.com/rageappliedgame/HatAsset/tree/1b9b82c 777ac48d97bdb8868f1488819d6bb5d52

Source code

https://github.com/rageappliedgame/HatAsset

https://github.com/rageappliedgame/HatAsset/tree/1b9b82c777ac48d97bdb8868f1488819d 6bb5d52

Source code license

Apache License, Version 2.0

Installing the project

https://github.com/rageappliedgame/HatAsset/tree/1b9b82c777ac48d97bdb8868f1488819d 6bb5d52/TestApp

https://github.com/rageappliedgame/HatAsset/tree/1b9b82c777ac48d97bdb8868f1488819d 6bb5d52/manual

Dependencies

RAGE Client-side Asset Architecture: https://github.com/rageappliedgame/AssetManager

References

Nyamsuren, E., van der Vegt, W., & Westera, W. (2017). Automated Adaptation and Assessment in Serious Games: a Portable Tool for Supporting Learning. In Proceedings of the Fifteenth International Conference on Advances in Computer Games 2017 (ACG2017).