Intelligent Agent (IA) Systems to Generate User Stories for a Positive User Experience

In User Centered Design (UCD) approaches within software development processes, understanding of users, tasks and environments identifying needs and establishing requirements for a positive user experience (UX) is essential to achieve a high usability. The quantitative measurement of UX relies on the fulfillment of psychological needs that can be addressed in storyboards in order to create a context for a certain experience with a particular application. To facilitate the process of capturing software products functionality, we present in this work a framework based on Intelligent Agent (IA) systems to semi-automatically generate user stories. A strong story line is guaranteed by a character-centric approach and additional supportive agents that are defined through characters’ properties in form of needs, behaviors skills and goals. Moreover, we allow for the storage of the created characters into a database, so that they can be reused for further stories and we perform a usability evaluation on the user interface to ensure that it meets users’ expectations. The system was classified as easy to use and
suitable to perform the intended tasks and it also met users' expectation.

Intellectual Contribution:
Discipline-based Research

Zeitschriftentitel:
International Journal of Human Capital and Information Technology Professionals

Journal gelistet in FT45 Ranking:
nein

Jahr:
2014

Band:
5

Heft / Issue:
1

Seiten:
26-40

Nachgewiesen in:
Scopus

Volltext / DOI:
doi:10.4018/ijhcitp.2014010103

Urteilsanmerkung / Urteilsbesprechung:
0

Key publication:
Ja

Peer reviewed:
Ja

International:
Ja

Book review:
Nein

commissioned:
not commissioned

Professional Journal:
Ja

Interdisziplinarität:
Ja

Leitbild:

Ethics & Sustainability:
Nein

Occurences:
- Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Produktionstechnik > Lehrstuhl für Ergonomie (Prof. Bengler) > 2014

Entries: