



E-CIDADANIA: SYSTEMS AND METHODS FOR THE CONSTITUTION OF A CULTURE MEDIATED BY INFORMATION AND COMMUNICATION TECHNOLOGY

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In the Brazilian society, we face a situation characterized by enormous differences regarding to socioeconomic, cultural and regional factors as well as access to technology and knowledge. The big challenge for Computer Science to change this reality lies in the search for methods and system designs that provide access and make sense to the users' community, thus supporting the formation of a digital culture that respects the diversity. This research investigates and proposes solutions for interaction models and interfaces for the diversity of potential users and competencies that constitute the scenario of the digitally excluded people in our society. In general, the project aims at studying and proposing solutions to the challenges of interaction and user interface design for systems in the context of citizenship practice. To reach this goal, the research team develops joint actions with a partner institution (network Jovem.com) and the communities around it to conduct the interaction and interface design of a pilot system to be implemented in the target community. Making available systems that make sense to and are accessible by the citizens – and thus also bring benefits for the society as a whole – requires a socio-technical vision of the problem. Therefore, for this research, we propose to use the frame of reference of Organizational Semiotics articulated with principles of Universal Design or Design for All. The contribution of this project lies in the advance of research in the area of (inclusive and universal) interfaces tailorable to users' diversity of competencies as well as in the creation of applications that actually make sense to the target community (i.e. constitution of inclusive social networks and e-citizenship).

E-CIDADANIA



To an overview of e-Cidadania Project activities in a time-line, access <http://www.nied.unicamp.br/ecidadania>



MAIN RESULTS

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Romani R, Baranauskas MCC. GWIDO – Games with interaction design objective. In *IADIS International Journal on WWW/Internet*. 2009. Rome, pp. 351-358.

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Santana VF, Baranauskas MCC. 2010. Summarizing observational client-side data to reveal web usage patterns. In: *Proceedings of the 25th ACM Symposium On Applied Computing (ACM SAC)*, 2010. Stoughton, WI, USA. The Printing House. **II**: 1219-1223.

Hayashi ECS, Baranauskas MCC. Understanding meta-communication in an inclusive scenario. In: *Proceedings of the 25th ACM Symposium On Applied Computing (ACM SAC) 2010*. Stoughton, WI, USA. The Printing House. **II**: 1213-1228.

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MSC DISSERTATIONS AND PHD THESES

Santana VF. Identificação de padrões de utilização da web mediada por tecnologias assistivas. MSc dissertation. Institute of Computing, Unicamp. April 8th, 2009 (Capes scholarship).

Hayashi ECS. Estudo e proposta de ferramentas de comunicação e expressão em redes sociais inclusivas online. MSc dissertation. Institute of Computing, Unicamp. March 12th, 2010 (Capes scholarship).

Fortuna FJ. Normas no desenvolvimento de ambientes web inclusivos e flexíveis. MSc dissertation. Institute of Computing, Unicamp. May 14th, 2010. (MSR-FAPESP scholarship)

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