ECGBL 2019

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Mini Track on Game-Based Learning and Human Movement Interaction

Mini Track Chair: **Lars Elbæk,** PhD, Associate Professor and **Md. Saifuddin Khalid,** PhD, Associate Professor, University of Southern Denmark

Over the last couple of decades, a field seems to be emerging with the development and implementation of digital technologies for sport and physical movement, such as interactive playgrounds, exergames, interactive physical games, fitness games, health games, entertainment robots and quantifying yourself via motion monitoring your own movements. New trends like mobile platforms for game-based interaction, such as Pokémon GO, are also attempting to promote an active lifestyle. VR and AR mixed realities as such is also approaching the scene of human movement game-based learning.

Originating from the field of Human-Computer Interaction (HCI), a digitally supported movement and learning field in conjunction with design processes has contributed to the development of various game-based learning applications. The emerging field Human Movement Interaction (HMI) seeks to acquire sufficient understanding of the person(s) who moves and learns while interacting with digital systems or mediates acting together. Various games and interactive systems are promoting physical, activity learning, and, sport attempting to better exploit the potential of the digital technologies. To achieve an optimal mix, it is necessary to work purposefully in a broad – but well-defined interdisciplinary field, involving human-technology interaction, design processes and in-depth knowledge of bodily based learning and human movement.

The scope of this track encompasses the theoretical or empirical research on digital technology development or implementation that integrates game-based learning for or with human movement and sport.

Suggested topics include but are not limited to:

- Analysis of existing digital game-based learning applications for human movement
- Digital game-based learning designs (and prototypes) for human physical movement, sports, and health
- Evaluation of fitness and health applications applying user experience and usability methods
- Theory, methods and tools for the design of digital products and services for movement and health
- Collaborative learning environments with movement games

Lars Elbæk is an Associate Professor at the Department of Sports Science and Clinical Biomechanics at the University of Southern Denmark and coordinator of the Sports Science Innovation and Entrepreneurship program. He has worked with business innovation in the project "Play and Learning - Kids'n Tweens Life-style". He has through projects and through his Ph.D. training in-depth knowledge and experiences of doing interaction design and design research in sports, adapted physical activity, play approaches and pervasive computing. That in collaboration with NGO's, public institutions, and private companies and thereby working in participatory innovative processes with external partners.

Md. Saifuddin Khalid is an Associate Professor in digital design and movement at University of Southern Denmark. With a background in the fields of computer science (BSc & MSc), business informatics (BSc), human-centred communication and informatics (PhD), Khalid works on IT development, integration, and adoption processes. His research contributes in the multi-disciplinary fields of interaction design, service design, educational technology, diffusion research, health informatics, and sports science. He received best teacher award 2016 at the faculty of Humanities, Aalborg University, Denmark.

Submission details

In the first instance a 300 word abstract is required, to be received by **14 March 2019.** Please read the guidelines at http://www.academic-conferences.org/policies/abstract-guidelines-for-papers/

Submissions must be made using the online submission form at
http://www.academic-conferences.org/conferences/ecgbl/ecgbl-abstract-submission/

If you have any questions about this track please email the mini track chairs: lelbaek@health.sdu.dk, skhalid@health.sdu.dk

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