



14th Asian Conference on Intelligent Information and Database Systems

6-9 June 2022, Almaty, Kazakhstan



STSH 2022

Special Session on Smart Technologies in Sports and Healthcare

at the 14th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2022)

Almaty, Kazakhstan, June 6-9, 2022

Conference website: <http://www.aciids.pwr.edu.pl/>

Special Session Organizers

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Objectives and topics

Digital technologies represent a long-term vector of human civilization development. They are based on two key factors - speed and versatility, which makes them applicable in almost any sphere of human activity. The information collection and processing system, which is based on data encoding and unification, makes it possible to process a large number of operations in a short period of time. Digital technologies have also found their application in modern sports and healthcare - the analysis of an athlete's behavior and monitoring of his activities allow using all the most modern developments and products, from nanoelectronic elements to the latest innovations in molecular biology. IT technologies in sports and healthcare make it possible to effectively organize the process of training, rest and recovery, reduce the time for rehabilitation after injuries, create a more effective barrier to the spread of doping.

Nowadays, innovative ideas and practices are used to improve the state of sports and physical education. With the health and wellbeing of people now considered paramount in the world of sport, new smart technologies may be able to meet these emerging needs. The aim of this section is to focus on innovative developments in sports technology and healthcare. Articles devoted to this topic, especially those that give a new idea of their use for innovative technologies that allow the widespread use of sports and medical equipment, are welcome.

We would like to offer an opportunity for researchers and practitioners to identify new promising research directions as well as to publish recent advances in this area. The scope of the STSH 2022 includes, but is not limited to the following topics:

- Impact of digitalisation, technology and metrology on the sports practice and athletic performance
- Wearable sensors
- Signal processing
- Computer vision
- Augmented and virtual reality
- Cognitive Interaction Technology in Sport
- Artificial Intelligence in Sports Science and Healthcare
- Digitalisation, athletes' surveillance and autonomy
- Internet of Medical Things
- Internet of Things in Sports
- Human-machine interaction in sports
- Telemedicine
- eSports

Important dates

Submission of papers: **15 January 2022**
Notification of acceptance: **1 March 2022**
Camera-ready papers: **15 March 2022**
Registration & payment: **15 March 2022**
Conference date: **6-9 June 2022**

Program Committee (to be invited)

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Amangeldi Saipov, Mukhtar Auezov South Kazakhstan State University, Shymkent, Kazakhstan

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: **STSH 2022: Special Session on Smart Technologies in Sports and Healthcare.**

<https://easychair.org/conferences/?conf=aciids2022>

Authors are invited to submit original previously unpublished research papers written in English, of up to 13 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at [Springer's web site](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the STSH 2022 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).