

IMCL Special Session

Title

Digital Technology in Health and Sports

Acronym

DiTheS

Overview

Sports, physical activity, and health play a vital role in contemporary society, while digital technologies and Artificial Intelligence are increasingly transforming the ways physical activity is practiced, monitored, taught, supported, and experienced. Mobile technologies, wearable devices, AI-driven analytics, intelligent coaching systems, digital health applications, and technology-enhanced learning environments create new opportunities for promoting health, well-being, inclusion, performance, prevention, rehabilitation, and lifelong engagement in active lifestyles.

The Special Session aims to provide a forum for researchers, educators, practitioners, policy makers, healthcare professionals, and sport organizations to present and discuss recent developments related to the design, development, implementation, and deployment of digital technologies in health, sports, physical activity, and well-being.

Topics

- Digital technologies for promoting health, sports, and physical activity
- AI applications in sports analytics, health monitoring, and injury prevention
- Personalized and adaptive training, exercise, and rehabilitation systems
- Wearables, biosensors, and smart sport/health environments
- Digital communities and online learning in sport and health education
- Technology-enhanced healthy lifestyles, prevention, and well-being
- Digital tools supporting Dual Careers of Athletes
- AI-supported decision-making in sport, fitness, and health environments
- Educational technologies for sport training, coaching, and health promotion
- Digital innovation against doping, violence, racism, intolerance, and match fixing in sport
- Intelligent systems supporting EU Physical Activity Guidelines
- Data analytics and real-time monitoring in sports, exercise, and health ecosystems

Program Committee

Chair(s)

Stefano Pintus, Directorate-General for Education, Youth, Sport and Culture (DG EAC), European Commission, Belgium. Stefano.PINTUS@ec.europa.eu (TBC)

Thrasylvoulos Tsiatsos, Department of Informatics, Aristotle University of Thessaloniki, Greece, tsiatsos@csd.auth.gr

Members

Vassilis Barkoukis, Department of Physical Education and Sport Science, Aristotle University of Thessaloniki, Greece, barkoukis@phed.auth.gr

Nuno Leite, University of Trás-os-Montes and Alto Douro (UTAD), Portugal, nleite@utad.pt

Adilson Marques, Faculty of Human Kinetics, University of Lisbon, Portugal, amarques@fmh.ulisboa.pt

Miguel Peralta, Faculty of Human Kinetics, University of Lisbon, Portugal, miguel.peralta14@gmail.com