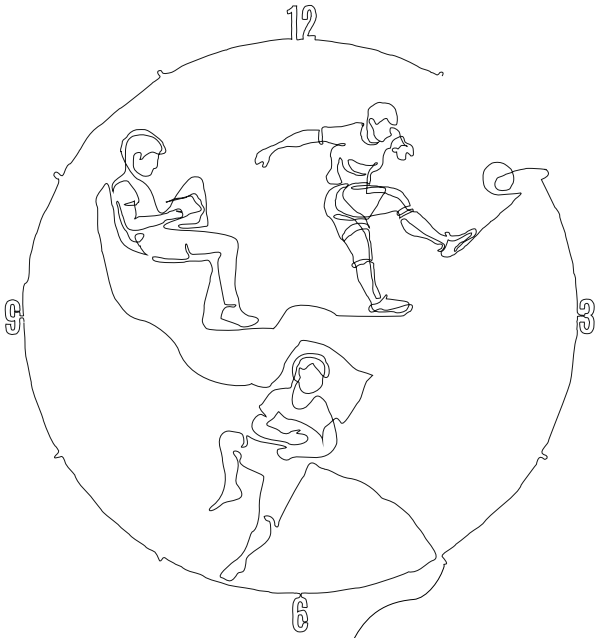
Organizing and Scientific Committee

- Francisco B. Ortega. University of Granada, Spain (Workshop Director)
- Jonatan R. Ruiz. University of Granada, Spain (Workshop Director)
- Jairo H. Migueles. University of Granada, Spain (Workshop Secretary)
- Miguel Martín Matillas. University of Granada, Spain
- Palma Chillón. University of Granada, Spain
- Cristina Cadenas-Sánchez. University of Cádiz, Spain
- José Mora-González. University of Granada, Spain
- Irene Esteban-Cornejo. University of Granada, Spain
- María Rodriguez-Ayllon. University of Granada, Spain
- Pablo Molina-García. University of Granada, Spain
- Abel Plaza-Florido. University of Granada, Spain
- Lucía Torres-López. University of Granada, Spain
- José Juan Gil-Cosano. University of Granada, Spain
- Luis Gracia-Marco. University of Granada, Spain
- Esther Ubago-Guisado. University of Granada, Spain

Important dates:

- Abstract submission deadline: September 20th, 2019
- Communication to authors: September 23th, 2019
- Early bird registration fee: September 29th, 2019

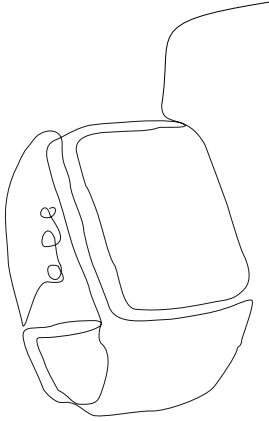


International Workshop: A focus on statistical methods to analyse accelerometer-measured physical activity

GRANADA · 21st OCTOBER 2019

+info: www.granadacongresos.com/aiw2019

Organization and Collaborators:



This scientific event takes place thanks for the support of the Unit of Excellence in Sport and Health (UCEES), granted by the University of Granada and "Junta de Andalucía, Consejería de Conocimiento, Investigación y Universidades and European Regional Development Funds (ref. SOMM17/6107/UGR)"

THE WORKSHOP

Objective instruments to measure physical activity are evolving at a drastic velocity. Recent developments have allowed to classify the accelerations produced by the human body as sleep, sedentary or physical activity time with a gradient of intensities. These categories of physical behaviour coexist in the 24 hours of the day with inter-relationships that classical statistical methods fail to consider. Researchers from all around the world are investigating how to overcome this limitation at analysing physical activity temporal series by using new statistical approaches such as isotemporal substitution models, compositional data analysis, multivariate pattern analysis with partial least squares regression and/or even machine learning algorithms.

The present international workshop has been organized with the purpose of gathering together top experts from different countries in the abovementioned approaches to analyse physical activity data. This meeting will bring together different point of views on the state-of-the-art of physical activity data analysis, which will encourage interesting debates and, hopefully, will end up with practical recommendations on how to keep advancing to appropriately analyse physical activity data.

We welcome all people interested in the topic to join us in Granada (Spain), on October 21st, 2019. All attendees will have the chance to send their abstract and present their studies as oral communications or posters during the workshop.

PROGRAM

08.00 - 09.00 Registration

09.00 - 09.30 Welcome and Introduction to this Workshop

Pilar Aranda/Enrique Herrera, Jonatan R. Ruiz
Workshop Chairman: Dr. Francisco B. Ortega. PROFITH research group. University of Granada, Spain.

09.30 - 10.30 Session 1

Dr. Lars Bo Andersen. "An historical perspective on the evaluation of Accelerometry methods and analysis". Western Norway University of Applied Sciences, Norway.

Dr. Bjørge H. Hansen. "Accelerometer data pooling experiences from two projects (ICAD and DEDIPAC) and isotemporal substitution". Norwegian School of Sport Sciences, Oslo, Norway.

10.30 - 11.00 Poster Presentation Session

11.00 - 11.30 Coffee break - Poster exhibition

11.30 - 13.30 Session 2

Dr. Duncan E. McGregor. "Compositional data analysis – why and how to do it?". Glasgow Caledonian University, Glasgow, Scotland, UK.

Dr. Sebastien Chastin. "Compositional data analysis applied to physical activity data". Glasgow Caledonian University, Glasgow, Scotland, UK.

Dr. Olav M Kvalheim. "Multivariate pattern analysis – why and how to do it?" University of Bergen, Bergen, Norway.

Dr. Eivind Aadland. "Multivariate pattern analysis applied to accelerometry physical activity data". Western Norway University of Applied Sciences, Norway.

13.30 - 14.30 Lunch and poster exhibition

14.30 - 15.15 Selected Oral presentations

15.15 - 16.15 Session 3

Dr. Alex V. Rowlands. "Data-driven, meaningful, easy to interpret, standardised accelerometer outcome variables for global surveillance". University of Leicester, United Kingdom.

Dr. Vincent van Hees. "Machine learning applications to segment physical activity time series data: Activity types, intensity levels, and how to make it interpretable and sustainable". Independent consultant, Amsterdam, The Netherlands.

16.15 - 16.45 Coffee break - Poster exhibition

16.45 - 17.45 Session 4

D. Jairo H. Migueles. "Workshop on accelerometer data processing using GGIR package in R: Bring your laptop if you want to practice!". University of Granada, Granada, Spain

17.45 - 18.00 Closing remarks

Dr. Francisco B. Ortega. & D. Jairo H. Migueles. PROFITH research group. University of Granada, Spain.

19.30 Cultural running