

Preliminary program of IACSS 2019

Day 1, 8 July, 2019

Plenary lecture by Cathy Craig

Players' performance in cross generational game playing

Plenary lecture by Sergey Simakov

Computational study of blood flow in lower extremities under intense physical load

Talk by Benjamin H. Groh

Unobtrusive estimation of in-stroke boat rotation in rowing using wearable sensors

Talk by Keith Lyons

Distances traversed at the 2018 FIFA world cup

Talk by Anatoly Skripal

Diagnostics of endothelial dysfunction in athletes by the pulse wave

Talk by Egor Timme

Whether cybernetics in sport existed in the USSR? Models released in 1965

Talk by Feng Qi

Research and application of location service LBS-based real-time tracking service platform for motion trajectory

Talk by Bartholomew Spencer

Fitting motion models to contextual player behavior

Talk by Arnold Baca

Online courses providing insights into how doping may affect performance in tennis

Talk by Jiang Junxian

Evaluating the comprehensive performance of foreign players by foreign players indicator in football leagues

Talk by Aleksey Bogomolov

Fundamental and applied development of information systems for the personification of non-drug prevention programs, monitoring and improving the adaptive capacity of a person

Talk by Max Geromiller

Performance of performance indicators in football

Talk by Tiago Russomanno

Performance analysis in sprint using intra-cyclic speed

Talk by Anton Ereemeev

Estimation of physical performance level of man in long space flight based on regular training data

Talk by Ismail Bayram

Effects of 8-weeks whole body vibration training on ITN scores and serve speed of adolescent tennis players

Talk by Suha Yagcioglu

Auditory evoked brain potentials during archery shooting

Talk by Yuri Kukushkin

Multi-objective optimization of the training plan with the use of approximation and visualization of Pareto frontier

Talk by Viktor Chertopolokhov

Using virtual reality technology for bobsleigh simulation

Talk by Olga Parfenteva

Influence of physical activity and the FTO A/T polymorphism on the body composition of adolescents and young adults

Talk by John Komar

Using drifting Markov chain to model the individual dynamics of motor learning

Talk by Markus Zrenner

Evaluation of foot kinematics during distance running on different surfaces in real world environments

Talk by Ingolf Waßmann

Train4U – Mobile sport diagnostic expert system for user-adaptive training

Talk by Tobias Berger

Generating competitive advantages in the NBA using data analytics?

Talk by Keith Lyons

Cybernetics and models in a golden age of Russian football

Talk by Michael Kljuchnikov

Big data in sports medicine. Machine learning and precision prediction.

Talk by Daniel Link

Can positioning systems replace timing gates for measuring sprint time in ice hockey

Talk by Richard Brunauer

From sensor data to coaching in alpine skiing – a software design to facilitate immediate feedback in sports

Talk by Alanna Weisberg

Issues associated with assessing sleep patterns with the elderly using the Fitbit Flex 2

Talk by Konstantin Korotkov

Internet based system for the analysis of psycho-physiological condition of top-level athlete

Talk by Martin Dobiasch

Direct mobile coaching & a software framework for the creation of mobile feedback systems

Talk by Di Feng

Learning table tennis using structured video on iPads incorporating peer to peer evaluation

Talk by Stefan Tiedemann

Development of an Erasmus+ dual-career-program for athletes and coaches

Talk by Selami Özsoy

e-Sports: Motivation sources of computer games

Talk by Lejun Shen

Measurement and performance evaluation of LoB technology in badminton matches

Talk by Fikret Er

Hit distribution patterns in recurve archery: an exploratory spatial analysis

Talk by Oleg Kazennikov

Postural sway during body turn in symmetrical and asymmetrical standing in healthy humans

Poster by Petr Prusov

Characteristics of exponential equation of heart rate recovery in young athletes after exercise as indicators of physical loading intensity

Poster by Yuri Solodyannikov

On technology of physiological avatar with optimal training process planning in cyclic sports

Poster by Louis Leventer

Preventive effect of pre-season preparation on in-season injury-risk among German Bundesliga football players

Poster by Sergey Gontarev

Complex for optimization of rowing

Poster by Ilya Tyuvaev

New methods for real time control of vegetative balance on a heart rate variability

Poster by Hayri Ertan

Monitorization of a male basketball player after reconstructive ACL surgery: a case study

Poster by Angelica Lunina

Towards the highest performance in sport: the scope for target-oriented modeling in cross-country ski

Poster by Sergey Razinkin

Forecast of physical performance of skyhall sportsmen by indicators of heart rate variability

Poster by Ilya Schurov

Do pang of conscience affect judge's behaviour?

Poster by Yuri Petrunin

Data analysis in evaluation the effectiveness of governance in sports

Poster by Marina Sharoyko

Types of myocardial remodeling in athletes and physically inactive individuals with Wolf-Parkinson-White syndrome

Poster by L.B. Laxmikanth Rathod

Comparative analysis of speed and cardiovascular endurance between intercollegiate men football and hockey players of Osmania University

Poster by Neeraj Jain

Effects of Suryanamaskar on selected physiological variables among Lucknow University students of Andhra University

Poster by Bhaskar Salvi

A comparative study of emotional intelligence and enthusiasm among state level and national level Kho Kho players

Day 2, 9 July, 2019

Plenary lecture by Jesse Davis

Automatic discovery of tactics in spatio-temporal soccer match data

Plenary lecture by Mikhail A. Vinogradov

Sport development in Russia

Talk by Ipek Eroglu Kolayis

The relationship between arrow positioning and bow/draw arm EMG activity in archery

Talk by Leonid Khasin

The biomechanical analysis of the technique of weightlifters of high qualification with application of mathematical modelling and high-speed video recording

Talk by Zheng Zhou

A multi-dimensional analytical system of table tennis matches

Talk by Gleb Vasiliev

Fantasy football meets machine learning: the dynamic game case and a note on strategy

Talk by Elena Fedotova

Practical application and interpretation of isokinetic tests' results for estimation of athletes' muscle fiber type composition

Talk by Alexander Artiga Gonzalez

Validation of optimal pacing strategies for uphill road cycling time trials

Talk by Rajesh Kumar

Internet of Things (IoT) in cricket

Talk by Gerrit Kollegger

Visual perception of robot movements – how much information is required?

Talk by Shuwen Liu

Functional design of recognition system for descent point trajectory of the badminton young people

Talk by Thomas Blobel

Systematic comparison of club management information systems (CMIS)

Talk by Sebastian Wenninger

Sequential association rule mining in elite beach volleyball

Talk by Melanie Ludwig

A probabilistic model of mean maximal performance

Talk by Andrey Kartsev

Information system of sports orientation of children 6 to 12 years in Moscow

Talk by Edward Generozov

Polygenic modeling of muscle fibers composition

Talk by Bettina Barisch-Fritz

Designing a mobile app for treating individuals with dementia: combining UX research with sport science

Talk by Julia Daxenbichler

Guiding runners through speed-based tasks. A pilot study.

Talk by Sergey Rudnev

Body composition studies in athletes: history, methodology and prospects related to computer science

Talk by Darko Katovic

Comparison of machine learning algorithms for somatotype classification

Talk by Katrin Hoffmann

Automatic load control in endurance training

Talk by Syed Ibrahim

Effect of 20 minutes treadmill aerobic exercise at varying intensities on heart rate, electrocardiograph and mood state response among sportsman

Talk by Andrey Melnikov

Influence of UCP2 Ala55Val and UCP3 -55C/T polymorphisms on heart rate variability in young oarsmen

Talk by Elvira Bondareva

Physical activity attenuates the effect of the FTO T/A polymorphism on obesity-related phenotypes in adult Russian males

Talk by Olga Bazanova

The effects of menstrual cycle phase on the psychophysiological indices of the athletic performance: systematic review

Talk by Thomas Jaitner

Performance analysis and load monitoring in highly dynamic sports by inertial measurement units

Talk by Steffen Lang

Who will score next? About the predictive power of performance indicators in soccer

Talk by Tatiana Baidychenko

The factors that determine the dynamic changes in the precision of archers under the influence of competitive load

Talk by Josef Wiemeyer

Towards a generic framework for serious games

Talk by Sergey Simakov

Mechanical stimulations of the blood flow

Talk by Anatoly Borovik

Estimation of anaerobic threshold by dynamics of EMG activity and deoxyhemoglobin content in working muscle

Talk by Philipp Seidenschwarz

A flexible approach to football analytics: assessment, modeling and implementation

Talk by Thierry Busso

Quantification of positive and negative effects of training with a secondary signal model for adaptation during one swimmer's competitive season

Talk by Jürgen Edelmann Nusser

Development of a fully automatic scouting technology based on pattern recognition in teacher training

Talk by Yi-Zhuo Zhang

Functional design of recognition system for descent point trajectory of the badminton

Talk by Dmitry Dagaev

eSports betting market inefficiency

Poster by G. K. Dhokrat

Effect of postural deformities on positive mental health : with reference to adolescent Indian boys and girls

Poster by P.P. Satya Paul Kumar

Influence of adapted physical exercises on selected psychomotor variables of special children of Andhra Pradesh

Poster by Haricharan L. Gajbhiye

A comparative study of the impact of socio-economic status on personality of players participating in Indian games and foreign games

Poster by Ganesh Shanker Pandey

Functional fitness: a perspective from mental fitness to executive fitness for sports welfare

Poster by Gurnam Singh Chugh

Effect of plyometric exercises for development of shoulder strength among boxers of Hyderabad in India

Poster by Sergey Klyuchnikov

Complex dynamic estimation of the functional condition of sportsmen in sports: from junior to champion

Poster by Yerraguntla Emmanuel Shashi Kumar

Effect of plyometric exercises for development of speed among cricketers of Osmania University in India

Poster by Hamed Abu-Hilal

Muscular endurance, explosive strength and suppleness: influence of Taekwondo drills on the male subjects

Poster by Hanmanth Jange

Effect of plyometric exercises for development of speed among hockey players of Gulbarga University

Poster by D.Prasanna Balaji

Effect of interval training for development of aerobic endurance among athletes of national college in Tamil Nadu

Poster by C. Veerender

Effect of counselling to improve the performance of high anxiety players with help of “NLP-anchoring method” and “self talk”

Poster by Pasodi Mallappa Sharanappa

Boost mental health through sports and games for the college students of Gulbarga University

Poster by Awdhesh Kumar Shukla

A comparative study of physiological variables of college level cricketers & non-cricket players of Lucknow district

Poster by Hiremath Rajashekhar Mallikarjunayya

Effect of weight training for development of speed among sprinters of University of horticultural sciences, Bagalkot, Karnataka

Day 3, 10 July, 2019

Plenary lecture by Stuart Morgan

Discovering frequently recurring movement sequences in team-sport athlete spatiotemporal data

Plenary lecture by Yingcai Wu

ForVizor: Visualizing Spatio-Temporal Team Formations in Soccer

Talk by Andrey Voronov

Energetic costs and analysis of the strategy of human locomotions under changed weight loadings on musculoskeletal system

Talk by Mikhail Shpionkov

Application of correlation adaptometry technique to biomedical and sports research

Talk by Vyacheslav Godik

Technology of the analysis of data of aerobic and anaerobic distribution of volumes of physical activity in the different high-speed ranges in soccer

Talk by Nihal Dal

Flow experience as a predictor of archers' autonomic cardiac recovery following an arrow shooting session

Talk by Philipp Kornfeind

Evaluation of motivational effects of running games based on intelligent feedback devices

Talk by Alpaslan Yılmaz

Insole sensor design for ski boot using piezoresistive material

Talk by Ying Wang

Research on the athlete welfare system in China

Talk by Denis Gudkov

Determination of performance level based on training impulses

Talk by Alena Grushko

The model of psychological diagnosis and training in football

Talk by Andrey Zholinsky

Determination of possibility for using data from medical information system for the prognosis of Russia national team athletes' health status

Talk by Sergey Mamchur

Information system for operational planning of training load, rehabilitation and medical control in cyclic sports

Talk by Jia-Ying Yang

Reliability analysis of foot scan in the measurement of plantar pressure parameters among normal young people

Talk by Yue Zeng

Assessment of premier league clubs' offensive and defensive strength

Talk by Oleg Solozobov

Artificial intelligence in sports: actual state, trends, and future challenges

Talk by Feida Zhao

A quantitative assessment of global football player migration

Talk by Mengü Demir

A new method for auto generating orienteering racetrack according to genetic algorithm paradigms

Talk by Armin Kibele

Two studies on leg stabilizer strength in older adults