Conference Schedule				
Wednesday 27.09.2023				
10:00-21:00	Registration and Check-in Location: First Floor Lobby of College of Education, Zhejiang University Thursday 28.09.2023			
	Opening Cormony			
09:00-09:30	Location: Conference Room 118, College of Education			
09:30-10:30	<b>Keynote Speaker 1:</b> Martin Lames: Machine Learning in Performance Analysis – Kings' Roads and Blind Alleys <b>Chair:</b> Hui Zhang <b>Location:</b> Conference Room 118, College of Education			
10:30-10:45	Take a Photo (with All Participants)			
10:45-11:00	Coffee Break			
	Parallel Sessions 1			
11:00-12:30	Chair: Yingcai Wu	Chair: Juliana Exel		
	Location: Conference Room 118, College of Education	Location: Meeting Room 107, College of Education		
11:00-11:15	Sensors and Testing Equipment:	Models and Predictions:  Discovering Strategy using Evolutionary Computation:		
	Research on human-environment interactive acquisition technology based on intelligent multi-sensor fusion	Applying a Genetic Algorithm to a Team Pursuit Cycling Track Cvcling Race		
	Authors: Jianxiang Wang, Zhanguo Nie and Yuxin Peng	Authors: Donal Kelly and Colm O'Riordan		
	Sensors and Testing Equipment:	Models and Predictions:		
11:15-11:30	A Finite Element Model to Predict Shear Deformation in Running Shoe Midsoles During the Foot Strike	An analysis of macro-influencing factors of FIFA World Cup competition performance: based on the SPLISS theory perspective		
	Authors: Ben Lane, Lise Sissler, Benoit Abel, Kévin Dellion and Nicholas Tam	Authors: Mu Fan, Fei Liu, Jixin Fan and Hui Zhang		
	Sensors and Testing Equipment:	Models and Predictions:		
11:30-11:45	Ground Contact Time in Curve Running – a Sensor-Based Measurement	Within-match performance fluctuations - assessment and observed vs. expected extent in table tennis		
	Authors: Patrick Blauberger and Martin Lames	Authors: Ruizhi Liu and Martin Lames		
11:45-12:00	Sensors and Testing Equipment:  A Flexible Gesture Recognition System Based On Graphene Aerogel and IMU	Models and Predictions:  Factors Affecting NBA Player Draft Selection: An Analysis Based on a Generalized Linear Mixed Model		
	Authors: Liang Zhong and Yuxin Peng	Authors: Xiangshen Kong, Mu Fan and Hui Zhang		
	Physical Education and Health:	Models and Predictions:		
12:00-12:15	The impact of participation in learning assessment using ICT in physical education on community residents	Using Multiple Linear Regression Models to Predict WNBA Basketball Players' Playing Time		
	Authors: Koji Ishii and Naoki Suzuki	Authors: Chuqi Chen, Run Cao and Yixiong Cui		
		Models and Predictions:		
12:15-12:30		Spatial distribution and influencing factors of Chinese sports parks based on MGWR model		
		Authors: Tao Ren, Yuanxin Chen and Maolin You		
12:30-13:30	Lunch Break  Kannata Chaile Mai Tana Wasan			
40.00.44.00	<b>Keynote Speaker 2:</b> Hyongjun Choi & Mei Teng Woo: Innovative Approaches to the Use of Practice of Pra	ctical Sports Analysis Tools in Education and Al Research		
13:30-14:30	Chair: Daniel Link Location: Conference Room 118, College of Education	· · ·		
	Parallel Sessions 2			
14:30-16:00	Chair: Jun Liu	Chair: Hayri Ertan		
	Location: Conference Room 118, College of Education	Location: Meeting Room 107, College of Education		
	Machine Learning:	Data Analysis in Football:		
14:30-14:45	Using Machine Learning for identifying soccer in-possession match phases based on their tactical intention	Beyond xG: Statistical Analysis of Attacking Performance in World Cup 2022		
	Authors: Yuesen Li and Daniel Link	Authors: Runqing Ma, Jonas Bischofberger, Juliana Exel and Arnold Baca		
	Machine Learning:	Data Analysis in Football:		
14:45-15:00	Research progress on sports injury warning models based on machine learning technology  Mongli Wei, Vaning Zhang, Viwen Zhou, Huiyian	Real-time Prediction of Football Outcomes Based on Spatio- temporal Action Matrix		
	Mengli Wei, Yaping Zhong, Yiwen Zhou, Huixian Authors: Gui, Shaohua Yu, Tingting Yu, Yeming Guan and Guangying Wang	Authors: Jianyang Hu and Shaoliang Zhang		
	Machine Learning:	Data Analysis in Football:		
15:00-15:15	Short-term event prediction within matches in soccer using machine learning	Exploring English Premier League Clubs Performance and Home-Away Differences Based on Passing Network Analysis		

	Authors: Steffen Lang, Thomas Wimmer, Alexander Isenko	Authors, Changuan Vans and Otto Kalhinger
	and Daniel Link	Authors: Chenyuyan Yang and Otto Kolbinger
15:15-15:30	Machine Learning:  Machine Learning based Automatic Effective Round	Data Analysis in Football:
	Segmentation Method for Table Tennis	Football space and control in Chinese Football Super League
	Authors: Bo Yu, Minzhen Hu, Hao Yu, Jun Liu, Zechen Jin, Yang Yu and Qi Wang	Authors: Jinying Jiang, Shouxin Zong, Huanmin Ge and Yixiong Cui
	Machine Learning:	Data Analysis in Football:
15:30-15:45	Sports Performance Prediction Based on Metaverse and Deep Learning with Attention Mechanism	Research on the running performance of players with different playing styles in the Chinese Super League
	Authors: Xinqi Feng	Authors: Ruihong Cheng, Huanmin Ge and Yixiong Cui
	Machine Learning:	Data Analysis in Football:
15:45-16:00	Using SHAP to analyse the influence of football-related knowledge, attitude, and practice on health among students based on RF-TPE	Analyzing Key Success Factors in Balanced Games of the 2022 FIFA World Cup through FIFA Indicators
	Authors: Honglin Song, Yutao Li, Zhenhang Zhang, Jiaxu Ma and Tianbiao Liu	Authors: Xi-Ao Li and Bo Han
16:00-16:30	Coffee Break	
	Parallel Sessions 3	
16:30-18:00	Chair: Martin Lames	Chair: Naoki Suzuki
	Location: Conference Room 118, College of Education	Location: Meeting Room 107, College of Education
	Digital Technology and Virtual Reality:	Data Analysis in Racket Sports:
16:30-16:45	Integration of digital tools in training and sports education	Using SHAP to diagnose the elite male table tennis matches based on hybrid LSTM-BPNN algorithm with hybrid analysis theory
	Authors: Arnold Baca, Amin Chetouani, Elias Wallnöfer, Philipp Kornfeind and Juliana Exel	Authors: Honglin Song, Yutao Li and Tianbiao Liu
	Digital Technology and Virtual Reality:	Data Analysis in Racket Sports:
16:45-17:00	A Study on the Formation of Parents' Attitudes Toward ICT Utilized Physical Education for the Next Generation	Exploring the Structure of the Stroke Effectiveness Model for Elite Table Tennis Players
	Authors: Tatsuya Nakano and Koji Ishii	Authors: Qing Yang, Mu-zi Li, Zheng Zhou and Hui Zhang
	Digital Technology in PE and Virtual Reality:	Data Analysis in Racket Sports:
17:00-17:15	Low-Cost Virtual Reality: A Promising Tool for Positive Mood States and Enjoyable Exercise in Healthy Individuals  Authors: Juliana Exel, Michael Weilsensteiner and Arnold	Competitive Balance of Chinese Table Tennis Super League—Based on Simpson's Evenness Index
	Authors: Baca	Authors: Zhi-hao Chen, Qing Yang* and Mu-zi L
17:15-17:30	Digital Technology in PE and Virtual Reality:  Game-theoretic Analysis of Tactic Usage in Elite Female Table Tennis Players	Data Analysis in Racket Sports:  Clustering Winner Stroke Routes in Singles Matches of
	Table Tennis Players  Authors: Xiangtong Chu and Hui Zhang	Professional Tennis Players  Authors: Jing Liu, Shouxin Zong and Yixiong Cui
	Digital Technology in PE and Virtual Reality:	Data Analysis in Racket Sports:
17:30-17:45	Net-kill Opportunity Created by Smash in Badminton Doubles	Pure strategy Nash equilibrium number and PRR index for serving in tennis matches
	Authors: Lejun Shen, Yunlei Zhao, Yongming Chen, Ting Li, Ning Tang, Lu Ding and Jinwen Deng	Authors: Rouli Ye and Wenming Liu
	Digital Technology in PE and Virtual Reality:	Data Analysis in Racket Sports:
17:45-18:00	Research on Chinese Government's Policies related to the Development of Digital sport	The Effects of Distance from the Net at the Hitting Point and Hitting Height on the Outcome of High Level Badminton Men's Singles
	Authors: Li Zhang, Ying Wang and Hao Qiu	Authors: Ya Luo and Lejun Shen
18:00-19:00	Dinner and free activities	
19:00-21:00	Dartfish Workshop Location: Conference Room 118, College of Education	
	Friday 29.09.2023	
09:30-10:30	Keynote Speaker 3: Naoki Suzuki: Unleashing the Power of Te Chair: Martin Lames Location: Conference Room 118, College of Education	echnology: Revolutionizing Sports Coaching and Teaching
10:30-11:00	Coffee Break	
	Parallel Sessions 4	
11:00-12:30	Chair: Yaping Zhong	Chair: Sam Robertson
	Location: Conference Room 118, College of Education	Location: Meeting Room 107, College of Education
	Computer Vision:	Performance Analysis in Sports:
11:00-11:15	Using computer vision for performance analysis in racket sports: how good is a computer to observe player's activity?	The gap between China's CBA league and high-level leagues: Evidence from performance indicators

	Authors: and lie Vi Chay	Authors: Muzi Li, Yang Lu and Qing Yang
	and Jia Yi Chow	
11:15-11:30	Computer Vision:	Performance Analysis in Sports:
	Video Summarization for Event-Centric Videos	Analysis of Sabermetrics in KBO league from 2020 to 2022
	Authors: Qingwen Li, Jianni Chen, Qiqin Xie and Xiao Han	Authors: Soongyu Kwon, Woojin Lee and Hyongjun Choi
11:30-11:45	Computer Vision:	Performance Analysis in Sports:
	Research on computer vision-based trajectory extraction algorithm for tennis players	Analysis of "Short, Flat and Slow" Serving Strategy and Tactical Effectiveness
	Authors: Sheng Wang, Hyongjun Choi and Hanzhe Feng	Authors: Shangbin Li, Peiyu Zhao, Di Feng and Tao Jiang
	Computer Vision:	Performance Analysis in Sports:
11:45-12:00	Sports video classification method based on improved deep learning	Analysis of progressive pass quality during 2022 Qatar Football World Cup
	Authors: Wenming Liu and Youjian Zhang	Authors: Rong Ma and Yixiong Cui
	Computer Vision:	Performance Analysis in Sports:
12:00-12:15	Expert's gaze-based prediction model for assessing the quality of figure skating jumps	Analysis of Shot Opportunities in Relation to Possession Variables in Elite Football Match
	Authors: Seiji Hirosawa, Takayoshi Yamashita and Yoshimitsu Aoki	Authors: Jiale Wu and Yixiong Cui
	Computer Vision:	Poster: Exercise Physiology  Time frequency demain characterization of % 1PM in free door
12:15-12:30	Performance Analysis in Taekwondo using OpenPose	Time-frequency domain characterization of %1RM in free deep squat training based on velocity information
	Authors: Takashi Fukushima, Klaus Haggenmueller and Martin Lames	Authors: Vic. 1 To To Wang, Dexing Qian, Kaiyu Zhang and
		Yinsheng Tian
12:30-13:30	Lunch Break	
13:30-14:30	Workshop: Introducing Dartfish: Video-Based Technology Solutions and Student Training Chair: Moon Seok Chung	Workshop(13:00-14:30): Women in IACSS: Empowering the Future Chair: Juliana Exel
	Location: Conference Room 118	Location: Meeting Room 107
	Parallel Sessions 5	
14:30-16:00	Chair: Arnold Baca	Chair: Hyongjun Choi
	Location: Conference Room 118, College of Education	Location: Meeting Room 107, College of Education
	Data Mining and Pattern Recognition:	Exercise Physiology:
14:30-14:45	Exploratory Spatial Pattern Recognition of Hits on Archery	Kinematic synergy in lower limb joints during walking: Effects
14:30-14:45	Target	of gait speed on toe vertical position control
14:30-14:45	Target Authors: Hayri Ertan	of gait speed on toe vertical position control  Authors: Xuan Liu, Jitong Liang, Lei Li and Ye Liu
14:30-14:45	Target  Authors: Hayri Ertan  Data Mining and Pattern Recognition:	of gait speed on toe vertical position control  Authors: Xuan Liu, Jitong Liang, Lei Li and Ye Liu  Exercise Physiology:
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14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:45 15:45-16:00	Authors: Hayri Ertan  Data Mining and Pattern Recognition: Automatic formation recognition in handball using template matching Authors: Manuel Bassek, Daniel Memmert and Robert Rein  Data Mining and Pattern Recognition: Hoop Transformer: Read the game like a NBA Coach  Xing Wang, Zitian Tang, Jianchong Shao, Shaoliang Authors: Zhang, Sam Robertson and Miguel-ángel Gómez-Ruano  Data Mining and Pattern Recognition: Tactic Mining based on Natural Language Query in Racket Sports Authors: Jiang Wu, Zheng Zhou, Jiachen Wang, Hui Zhang, Yinqcai Wu  Data Mining and Pattern Recognition: Chinese Named Entity Recognition in Football based on Albert-BiLSTM Model Authors: Qi An, Bingyu Pan and Yixiong Cui  Data Mining and Pattern Recognition: 'My pace running' Endurance running practice using wearable devices  Authors: Koji Murase, Yasuhiro Kawakita, Yasutaka Kawamoto and Takuma Hamagami  Coffee Break  Parallel Sessions 6	of gait speed on toe vertical position control Authors: Xuan Liu, Jitong Liang, Lei Li and Ye Liu  Exercise Physiology:  Effects of Marathon Running on lower extremity Kinematics and Muscle Activities during running task  Authors: Wenjin Wang, Shaobai Wang, Wolfgang Potthast  Exercise Physiology:  Verbal and Conscious Processing Reflected in EEG as a Measure of Attentional Focus During Finger Movements  Authors: Danyang Li and Liwei Zhang  Exercise Physiology:  Improving the energy economy of human running with powered and unpowered ankle exoskeleton assistance  Authors: Wenjuan Jiang, Ye Liu and Ao Jiang  Exercise Physiology:  (In-)stability in the brain network as a means to quantify motor creativity  Authors: Yi-Shin Lee, Alicia Goodwill and John Komar  Exercise Physiology:  Spatiotemporal parameters and lower limb kinematics of gait in patients with femoroacetabular impingement syndrom  Authors: Hang Pan, Hanjun Li, Yulin Zhou, Xinxin Li, Hui Liu

	Database and Big Data:	Physical Education and Health:	
16:30-16:45	Predictive inference versus statistical inference when analyzing large data sets	Barriers and Facilitators to Application of Artificial Intelligence in Physical Education Class	
	Authors: Robert Rein	Authors: Di Feng	
16:45-17:00	Database and Big Data:	Physical Education and Health:	
	Data Audit <sup>@NSPFS</sup> Software for Chinese National Students Physical Fitness Standard Testing Data	Exploring the Intelligent Teaching Model for Dance Sport based on the PST Framework	
	Authors: Feng Gao, Dong Dong and Juncheng Liu	Authors: Chenyang Li and Hyongjun Choi	
	Database and Big Data:	Physical Education and Health:	
17:00-17:15	Momentum and Gender in Elite Recurve Archery	A Review of the Application of Artificial Intelligence in National Traditional Sports	
	Authors: Yangqing Zhao, Xiangtong Chu and Hui Zhang	Authors: Zheng Qi	
17:15-17:30	Database and Big Data:	Physical Education and Health:	
	Geographical Variation in Relationship between Economy Growth and Cardiorespiratory Fitness of Chinese Children and Adolescents over 30 Years:Evidence from Seven Successive National Surveys	Influencing Factors of College Students' physical Health under the Background of "Healthy China Action" - Based on Factor Analysis	
	Authors: Xiaomei Gan and Kehong Yu	Authors: Shuang Zhao and Hyongjun Choi	
17:30-18:30	The General Assembly of IACSS Location: Conference Room 118, College of Education		
18:30	Coference Dinner		
	Saturday 30.09.2023		
09:00-10:30	Workshop: Xiao Xie: Processing and analyzing sports videos with interactive visualizations Chair: Yingcai Wu Location: State Key Lab of CAD & CG, ZJU		
10:30-11:00	Coffee Break		
11:00-12:00	<b>Keynote Speaker 5:</b> Sam Robertson: Five big questions for AI & technology in high-performance sport <b>Chair:</b> Arnold Baca <b>Location:</b> Conference Room 118, College of Education		
12:00-13:00	Closing Ceremony Location: Conference Room 118, College of Education Dartfish-Jürgen Perl (IACSS) Award Introducation of next Conference		