Conference Schedule (Draft)		
	Wednesday 27.09.2023	
10:00-21:00	Registration and Check-in Location: College of Education	
	Thursday 28.09.2023	
09:00-09:30	Opening Cermony Location: Conference Room 118, College of Education, ZJU	
09:30-10:30	Keynote Speaker 1: Martin Lames: Machine Learning in Performance Hui Zhang Location: Conference Room 118, College of Education	rmance Analysis – Kings' Roads and Blind Alleys
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
	Sensors and Testing Equipment:	Models and Predictions:
11:00-11:15	Handle Grip and Acceleration Signatures of Table Tennis Racket for Stroke and Player Recognition	Discovering Strategy using Evolutionary Computation. Applying a Genetic Algorithm to a Team Pursuit Cycling Track Cycling Race
	Authors: Thibault Delumeau, Plot Christophe, Le Carpentier Eric and Mousseau Pierre	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
	Sensors and Testing Equipment:	Models and Predictions:
11:45-12:00	Research on human-environment interactive acquisition technology based on intelligent multi-sensor fusion	Factors Affecting NBA Player Draft Selection: An Analysis Based on a Generalized Linear Mixed Model
	Authors: Jianxiang Wang, Zhanguo Nie and Yuxin Peng	Authors: Xiangshen Kong, Mu Fan and Hui Zhang
	Sensors and Testing Equipment:	Models and Predictions:
12:00-12:15	A Flexible Gesture Recognition System Based On Graphene Aerogel and IMU	Using Multiple Linear Regression Models to Predict WNBA Basketball Players' Playing Time
	Authors: Liang Zhong and Yuxin Peng	Authors: Chuqi Chen, Run Cao and Yixiong Cui
	Sensors and Testing Equipment:	Models and Predictions:
12:15-12:30	'My pace running' Endurance running practice using wearable devices	Spatial distribution and influencing factors of Chinese sports parks based on MGWR model
	Authors: Koji Murase, Yasuhiro Kawakita, Yasutaka Kawamoto and Takuma Hamagami	Authors: Maolin You and Tao Ren
12:30-13:30	Lunch Break	
13:30-14:30	Keynote Speaker 2: Hyongjun Choi & Mei Teng Woo: Innovative Approaches to the Use of Prac Chair: Daniel Link Location: Conference Room 118, College of Education	ctical Sports Analysis Tools in Education and Al Research
	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	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 and Daniel Link	Authors: Chenyuyan Yang and Otto Kolbinger
	Machine Learning:	Data Analysis in Football:
15:15-15:30	Machine Learning based Automatic Effective Round 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	based on hybrid LSTM-BPNN algorithm with hybrid analysis

Digital Technology and Virtual Reality: A Study on the Formation of Parents' Attitudes Toward ICT Utilized Physical Education for the Next Generation Authors: Tatsuya Nakano and Koji Ishii Digital Technology in PE and Virtual Reality: Low-Cost Virtual Reality: A Promising Tool for Positive Mood States and Enjoyable Exercise in Healthy Individuals Authors: Paca Digital Technology in PE and Virtual Reality: Data Analysis in Racket Sports: Clustering Winner Stroke Routes in Singles Matches of Professional Tennis Players Authors: Jing Liu, Shouxin Zong and Yixiong Cui Data Analysis in Racket Sports: Clustering Winner Stroke Routes in Singles Matches of Professional Tennis Players Authors: Jing Liu, Shouxin Zong and Yixiong Cui Data Analysis in Racket Sports: Clustering Winner Stroke Routes in Singles Matches of Professional Tennis Players Authors: Jing Liu, Shouxin Zong and Yixiong Cui Data Analysis in Racket Sports: Pure strategy Nash equilibrium number and PRR index for serving in tennis matches Authors: Roull Ye and Wenming Liu Digital Technology in PE and Virtual Reality: Data Analysis in Racket Sports: Pure strategy Nash equilibrium number and PRR index for serving in tennis matches Authors: Roull Ye and Wenming Liu Data Analysis in Racket Sports: 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: Ya Luo and Lejun Shen Dinner and free activities		Authors: Arnold Baca, Amin Chetouani, Elias Wallnöfer, Philipp Kornfeind and Juliana Exel	Authors: Honglin Song, Yutao Li and Tianbiao Liu
17:00-17:15 Digital Technology in PE and Virtual Reality: Low-Cost Virtual Reality: A Promising Tool for Positive Mood States and Enjoyable Exercise in Healthy Individuals Authors: Zhi-hao Chen, Qing Yang* and Mu-zi L Digital Technology in PE and Virtual Reality: Authors: Authors: Zhi-hao Chen, Qing Yang* and Mu-zi L Digital Technology in PE and Virtual Reality: Table Tennis Players Authors: Zhi-hao Chen, Qing Yang* and Mu-zi L Data Analysis in Racket Sports: Clustering Winner Stroke Routes in Singles Matches of Professional Tennis Players Authors: Jing Liu, Shouxin Zong and Yixiong Cui Data Analysis in Racket Sports: Clustering Winner Stroke Routes in Singles Matches of Professional Tennis Players Authors: Jing Liu, Shouxin Zong and Yixiong Cui Data Analysis in Racket Sports: Pure strategy Nash equilibrium number and PRR index for serving in tennis matches Authors: Rouli Ye and Wenming Liu Data Analysis in Racket Sports: 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 Dinner and free activities			Data Analysis in Racket Sports:
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Game-theoretic Analysis of Tactic Usage in Elite Female Table Tennis Players Authors: Xiangtong Chu and Hui Zhang Digital Technology in PE and Virtual Reality: Net-kill Opportunity Created by Smash in Badminton Doubles Authors: Lejun Shen, Yunlei Zhao, Yongming Chen, Ting Li, Ning Tang, Lu Ding and Jinwen Deng Digital Technology in PE and Virtual Reality: Nesearch on Chinese Government's Policies related to the Development of Digital sport Authors: Li Zhang, Ying Wang and Hao Qiu Dinner and free activities Clustering Winner Stroke Routes in Singles Matches of Professional Tennis Players Authors: Jing Liu, Shouxin Zong and Yixiong Cui Data Analysis in Racket Sports: Authors: Rouli Ye and Wenming Liu Data Analysis in Racket Sports: 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: Ya Luo and Lejun Shen			Authors: Zhi-hao Chen, Qing Yang* and Mu-zi L
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18:00-19:00 Dinner and free activities	17:45-18:00		Hitting Height on the Outcome of High Level Badminton Men's
		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	19:00-21:00	Dartfish Workshop	
Friday 29.09.2023		Friday 29.09.2023	

09:30-10:30	Keynote Speaker 3: Naoki Suzuki: Unleashing the Power of Technology: Revolutionizing Sports Coaching and Teaching Chair: Martin Lames Location: Conference Room 118, College of Education	
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: John Komar, Quah Jian Tan, Corliss Zhi Yi Choo and Jia Yi Chow	Authors: Muzi Li, Yang Lu and Qing Yang
	Computer Vision:	Performance Analysis in Sports:
11:15-11:30	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
	Computer Vision:	Performance Analysis in Sports:
11:30-11:45	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
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: Jiaao Zou (s), Fei 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	Workshop(13:00-14:30): Women in IACSS: Empowering the Future
	Chiar: Moon Seok Chung Location: Conference Room 118	Chiar: Juliana Exel Location: Meeting Room 107
	Parallel Sessions 5	Location: Meeting Room 107
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 Target	Kinematic synergy in lower limb joints during walking: Effects of gait speed on toe vertical position control
	Authors: Hayri Ertan	Authors: Xuan Liu, Jitong Liang, Lei Li and Ye Liu
	Data Mining and Pattern Recognition	Exercise Physiology:
14:45-15:00	Automatic formation recognition in handball using template matching	Effects of Marathon Running on lower extremity Kinematics and Muscle Activities during running task
	Authors: Manuel Bassek, Daniel Memmert and Robert Rein	Authors: Wenjin Wang, Shaobai Wang, Wolfgang Potthast
	Data Mining and Pattern Recognition	Exercise Physiology:
15:00-15:15	Hoop Transformer: Read the game like a NBA Coach	Verbal and Conscious Processing Reflected in EEG as a Measure of Attentional Focus During Finger Movements
13.00-13.13	Xing Wang, Zitian Tang, Jianchong Shao, Shaoliang Authors: Zhang4, Sam Robertson and Miguel-ángel Gómez- Ruano	Authors: Danyang Li and Liwei Zhang
	Data Mining and Pattern Recognition	Exercise Physiology:
15:15-15:30	Tactic Mining based on Natural Language Query in Racket Sports	Improving the energy economy of human running with powered and unpowered ankle exoskeleton assistance

	Authors: Jiang Wu, Zheng Zhou, Jiachen Wang, Hui Zhang, Yingcai Wu	Authors: Wenjuan Jiang, Ye Liu and Ao Jiang
	Data Mining and Pattern Recognition	Exercise Physiology:
15:30-15:45	Chinese Named Entity Recognition in Football based on Albert-BiLSTM Model	(In-)stability in the brain network as a means to quantify motor creativity
	Authors: Qi An, Bingyu Pan and Yixiong Cui	Authors: Yi-Shin Lee, Alicia Goodwill and John Komar
	Data Mining and Pattern Recognition	Exercise Physiology:
15:45-16:00	An Expected Wins Approach using Fisher's Exact Test for Bogey Player Identification	Spatiotemporal parameters and lower limb kinematics of gait in patients with femoroacetabular impingement syndrom
	Authors: Rory Bunker, Calvin Yeung and Keisuke Fujii	Authors: Hang Pan, Hanjun Li, Yulin Zhou, Xinxin Li, Hui Liu
16:00-16:30	Coffee Break	
	Parallel Sessions 6	
16:30-18:00	Chair: Mei Teng Woo	Chair: Daniel Link
	Location: Conference Room 118, College of Education	Location: Meeting Room 107, College of Education
	Database and Big Data:	Physical Education and Health:
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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
16:30-16:45	Predictive inference versus statistical inference when	Barriers and Facilitators to Application of Artificial Intelligence
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
16:30-16:45 16:45-17:00	Predictive inference versus statistical inference when analyzing large data sets Authors: Robert Rein	Barriers and Facilitators to Application of Artificial Intelligence in Physical Education Class Authors: Di Feng
	Predictive inference versus statistical inference when analyzing large data sets Authors: Robert Rein Database and Big Data: Data Audit@NSPFS Software for Chinese National Students	Barriers and Facilitators to Application of Artificial Intelligence in Physical Education Class Authors: Di Feng Physical Education and Health: Exploring the Intelligent Teaching Model for Dance Sport
	Predictive inference versus statistical inference when analyzing large data sets Authors: Robert Rein Database and Big Data: Data Audit@NSPFS Software for Chinese National Students Physical Fitness Standard Testing Data	Barriers and Facilitators to Application of Artificial Intelligence in Physical Education Class Authors: Di Feng Physical Education and Health: Exploring the Intelligent Teaching Model for Dance Sport based on the OPST Framework
	Predictive inference versus statistical inference when analyzing large data sets Authors: Robert Rein Database and Big Data: Data Audit ^{@NSPFS} Software for Chinese National Students Physical Fitness Standard Testing Data Authors: Feng Gao, Dong Dong and Juncheng Liu	Barriers and Facilitators to Application of Artificial Intelligence in Physical Education Class Authors: Di Feng Physical Education and Health: Exploring the Intelligent Teaching Model for Dance Sport based on the OPST Framework Authors: Chenguang Li and Hyongjun Choi
16:45-17:00	Predictive inference versus statistical inference when analyzing large data sets Authors: Robert Rein Database and Big Data: Data Audit@NSPFS Software for Chinese National Students Physical Fitness Standard Testing Data Authors: Feng Gao, Dong Dong and Juncheng Liu Database and Big Data: Research on the Construction of College Students' Sports Participation Behavior Analysis and Early Warning	Barriers and Facilitators to Application of Artificial Intelligence in Physical Education Class Authors: Di Feng Physical Education and Health: Exploring the Intelligent Teaching Model for Dance Sport based on the OPST Framework Authors: Chenguang Li and Hyongjun Choi Physical Education and Health: Physical Activities of Chinese College Students and the
16:45-17:00	Predictive inference versus statistical inference when analyzing large data sets Authors: Robert Rein Database and Big Data: Data Audit@NSPFS Software for Chinese National Students Physical Fitness Standard Testing Data Authors: Feng Gao, Dong Dong and Juncheng Liu Database and Big Data: Research on the Construction of College Students' Sports Participation Behavior Analysis and Early Warning Management Platform Based on Big Data	Barriers and Facilitators to Application of Artificial Intelligence in Physical Education Class Authors: Di Feng Physical Education and Health: Exploring the Intelligent Teaching Model for Dance Sport based on the OPST Framework Authors: Chenguang Li and Hyongjun Choi Physical Education and Health: Physical Activities of Chinese College Students and the Effected Factors during COVID-19

17:15-17:30	Research on public service institutional system of national fitness social organization	Influencing Factors of College Students' physical Health under the Background of "Healthy China Action" - Based on Factor
	Authors: Hongwei Fan, Yuzhe Luo, Yu Dai and Yuxin Wang	Authors: Shuang Zhao and Hyongjun Choi
	Database and Big Data:	Physical Education and Health:
17:30-17:45	Momentum and Gender in Elite Recurve Archery	A Review of the Application of Artificial Intelligence in National Traditional Sports
	Authors: Yangqing Zhao and Hui Zhang	Authors: Zheng Qi
	Database and Big Data:	Physical Education and Health:
17:45-18:00	Geographical Variation in Relationship between Economy Growth and Cardiorespiratory Fitness of Chinese Children and Adolescents over 30 Years:Evidence from Seven Successive National Surveys	The impact of participation in learning assessment using ICT in physical education on community residents
	Authors: Xiaomei Gan and Kehong Yu	Authors: Koji Ishii and Naoki Suzuki
18:00	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: Meng Minwei Building, State Key Lab of CAD & CG, ZJU	
10:30-11:00	Coffee Break	
11:00-12:00	Keynote Speaker 5: Sam Robertson: Five big questions for Al & technology in high-performance sport Chair: Arnold Baca Location: Conference Room 118, College of Education	
12:00-13:00	Closing Ceremony Location: Conference Room 118, College of Education Dartfish-IACSS Young Sciencist Award Introducation of next Conference	