

## Day 1

## Room 1

## Room 2

## Text Mining &amp; Miscellaneous

## Interdisciplinary Collaboration

Time	Authors	Titel	Authors	Titel
14:30	<i>Alexander Prinz, Corinna Langhans, Marcel Partie, Kathrin Rehfeld, Anita Hökelmann and Kerstin Witte</i>	Diagnosis of selected cognitive and motor skills in seniors with dementia regarding the influence of music-based exercise programs	<i>Christian Saal, Norman Helm and Olaf Prieske</i>	Anthropometry, physical fitness, sport-specific performance and the prediction of performance level in young canoe sprint athletes
14:40				
14:50	<i>Glen Kelly, David Gaul and Denise Martin.</i>	The offensive and clinching activity profile of male and female IFMA Muaythai fighters	<i>Ilias Loutfi, Luis Ignacio Gómez-Jordana and Pedro Passos</i>	Landscapes of Shooting Opportunities in Football
15:00				
15:10	<i>Michael Byrnes, Denise Martin and Jonathan Bradley</i>	The Provision of PA support across the four Gaelic Games Codes in Ireland.	<i>Yvonne Ritter, Melina Droste and Kerstin Witte</i>	Comparison of response behavior in karate kumite between real world and virtual reality
15:20				
15:30	<i>Katrin Hoffmann and Josef Wiemeyer</i>	Physical and motivational effects of Exergames in healthy adults: Protocol for an Overview of Reviews	<i>Christoph Uran, David Kreitmayr and Helmut Wöllik</i>	Exercise Evaluation using Time-of-Flight Image Data
15:40				
15:50	<i>Zachery Born, Jason Weber, Ajmal Mian and Jacqueline Alderson</i>	Kick it to Me, or Maybe Not: How AFL Player Roles Affect Possessions in Australian Rules Football	<i>Emanuele Chirico, Sabrina Demarie, Giuseppe Vannozzi and Antonio Tessitore</i>	Anaerobic capacity assessment in water sports through inertial sensors
16:00				
16:10	<i>Hyun Suk Lee, Kyle McCallum, Jawad Hashim, Alanna Weisberg and Larry Katz</i>	Inter-Rater and Intra-Rater Reliability Comparison of Four Existing Overhand Throwing Assessment Tools	<i>Yahaya Abdullahi and Ben Coetzee</i>	Inertial sensors-containing device-determined match characteristics that serve as predictors of elite, male badminton players' performance levels
16:20				
16:30	<i>Hiramoto Keisuke, Aida Hiroshi, Fujimoto Hajime and Yamada Eiko.</i>	The relationship between shots and rebounded areas in handball matches	<i>Ryan Gaffney, Denise Martin and Jonathan Bradley</i>	Determinants of match outcomes in elite hurling
16:40				
16:50	<i>Dylan Heavey, Glen Kelly, David Gaul and Denise Martin.</i>	Investigating successful performance indicators in U20 Intercounty Gaelic Football	<i>Denise Martin, Ciara Browne, Alexander Chambers, Lorcan Healy, Peter McSwiney, Aisling Powell, David Woods and Denise McGrath</i>	Validating a framework for professional practice applied performance analysis
17:00				
17:10	<i>Jonas Bischofberger, Juliana Exel, Arnold Baca</i>	Event detection in soccer: Towards a solid foundation for the analysis of passing	<i>Alejandro Trejo-Silva, Miguel Angel Gómez-Ruano and Javier Brazo-Sayavera</i>	Multivariate analysis of female handball at Rio 2016 during exclusions
17:20				
17:30	<i>Jacob Holden, David Carey and Paul Gastin</i>	Predicting and understanding Australian Rules Football using Markov processes	<i>Qixiang He and John Komar</i>	Ways of winning - A clustering analysis of the different approaches towards winning in football
17:40				

## Poster

	<i>Jonas Birk, Hendrik Meth and Georgios Syrianos.</i>	Excluding random effects from soccer results using deserved points	<i>Imre Soós, Lili Kósa, Zsolt Bánfalvi, Zsolt Hegyesi, Sándor Dr. Sáfár and Ferenc Dr Ihász</i>	Analysis of match load distribution based on game elements and positions among young soccer players
	<i>Patrick Schmider, Hendrik Meth and Georgios Syrianos.</i>	Deriving player types from soccer event data as a means to improve tactical flexibility	<i>Takumi Yamamoto, Koh Sasaki, Jun Murakami, Ichiro Watanabe, Hironobu Shimozono, Toshihito Kajiyama and Go Chiba</i>	Relation between match outcomes and discipline in Japan Rugby Top League.
			<i>Rikard Eriksson, Moa Johansson, Mikael Mattsson and Johan Nicander</i>	Automated Generation of Training Plans for Swimmers
			<i>Mario Borges and John Seeley</i>	Passing networks in Handball: An examination of player positions that are more prevalent in positional attack

## Day 2

Room 1		Room 2	
Machine Learning		Best Practice	
Time	Authors	Titel	Titel
14:30	<i>Markus Zrenner, Maike Stoeve, Steven Franklin, Bhavesh Kumar, Ulf Jensen and Bjoern Eskofier</i>	Data-driven optimization of sensor placement for pressure insoles using particle swarm optimization	<i>Homa Rafiei Milajerdi and Larry Katz</i>
14:40			The Impact of Order of Performance on Peer-to-Peer Learning of a Lacrosse Ball Pick Up Skill Through Video Analysis with University Students
14:50	<i>Helmut Woellik, Thomas Gruber, Anna Doppelhofer and Christoph Uran</i>	A Clustering Algorithm for the Divisioning Process of Special Olympics Competitions	<i>Wolfgang Kremser and Sebastian Mayr</i>
15:00			How Sports Scientists Explain Their Choice of Wearable
15:10	<i>Tim D. Smithies, Adam J. Toth, Niall Ramsbottom and Mark J. Campbell</i>	A Random Forest approach for uncovering performance and in-game rank indicators for Rocket League	<i>Tracy Hillis and Larry Katz</i>
15:20			Using a Structured Interactive Peer to Peer Video Tool to Facilitate Learning in Development Level Speed Skaters
15:30	<i>Alanna Weisberg, Hyun Suk Lee and Larry Katz</i>	Impact of Bilateral Training on the Overhand Throw Technique	<i>Stefan Tiedemann and Kerstin Witte</i>
15:40			An objective method for phasing the hammer throw using inertial sensors
15:50	<i>Han Gao, Jiachen Wang and Hui Zhang</i>	A Second-order Markov Chain Model of Elite Tennis Competition	<i>Axel Schüler and Olaf Ueberschär</i>
16:00			The angular velocity of somersaults and twists in acrobatic sports – two approaches to its practical computation
16:10	<i>David Carey, Tim Bedin, Karl Jackson and Stuart Morgan</i>	Combining wearable tracking data and deep learning for moving camera calibration and player detection in Australian Football	<i>Fabian Hammes, Daniel Link, Martin Lames, Alexander Hagg and Alexander Asteroth</i>
16:20			Use of Artificial Intelligence in Elite Sports – A status quo
16:30	<i>Swarén, M. Nyström, A. Born, D-P., Björklund,</i>	Using machine learning to analyse player-specific ice skating characteristics to generate game-specific skating drills in professional ice hockey.	<i>Gerard Dunne, Johnny Bradley and Denise Martin.</i>
16:40			A case study on the impact of performance analysis support to male and female senior international soccer players
16:50	<i>Ryosuke Kato, Toshihiro Kameda, Eiko Yamada, Hajime Fujimoto and Hiroshi Aida.</i>	MACHINE LEARNING FOR HANDBALL GAME ANALYSIS USING VALID STATISTICS LINKED TO VICTORY	<i>Dan Bürger, Stefan Pastel, Chien-Hsi Chen, Katharina Petri and Kerstin Witte.</i>
17:00			Comparison of the spatial orientation skills between virtual and real environment related to two different aging groups
17:10	<i>Dave Matteo, David Carey, Paul Gastin and Haresh Suppiah</i>	Predicting athlete performance in team sports using nearest neighbour modelling	<i>Ramandeep Jaswal, Larry Katz and Pro Stergiou</i>
17:20			Examining the role of internal and external factors concerning technology adoption behaviours in high-performance sport coaching: the Technology Adoption Behaviour Model
17:30	<i>Mauro Mandorino, Antonio J. Figueiredo, Gianluca Cima and Antonio Tessitore</i>	The impact of extrenal and internal load on recovery status of adult soccer players: a machine learning approach	<i>Denise Martin, Peter O'Donoghue, Jonathon Bradley and Denise McGrath</i>
17:40			Steps to engaging a role in Applied Performance Analysis
17:50			<i>Bettina Barisch-Fritz, Jelena Bezold, Marc Barisch, Andrea Scharpf, Tim Geissler, Sandra Trautwein, Janina Krell-Roesch and Alexander Woll</i>
18:00			InCoPE-App: A Digital Solution to Train Individuals with Dementia. Usability Review based on Expert User Experiences.
<b>Poster</b>			
	<i>Adnan Bicaç and Hendrik Meth</i>	Improving springboard diving video classification accuracy through cumulated segment values	
	<i>Moa Johansson, Dan Kuylenstierna, David Larsson, Julia Ortheden, Markus Pettersson and Savya Sachi Gupta</i>	Machine learning techniques for gait analysis in skiing	
	<i>Carlo Dindorf, Jürgen Konradi, Claudia Wolf, Bertram Taetz, Gabriele Bleser, Johanna Knieper, Philipp Drees, Michael Fröhlich and Ulrich Betz</i>	Towards a better understanding of spinal differences between healthy subjects and subjects with back pain using Explainable Artificial Intelligence (XAI)	