



Conference Schedule

MONDAY 29 JUNE 2015		
0900–0930	REGISTRATION AND REFRESHMENTS, <i>Stewart Mason Building</i> foyer	
0930–0940	OPENING REMARKS, <i>SMB014</i>	
0940–1030	KEYNOTE LECTURE, <i>SMB014</i> (chair <i>Ray Stefani</i>) Modeling uncertainty in finance and sport Mr David Kendix, Actuary and cricket statistician	
1030–1100	REFRESHMENTS, <i>James France</i> exhibition area	
1100–1220	PREDICTION <i>SMB014</i> (chair <i>Frits Spieksma</i>)	STRATEGY <i>SMB017</i> (chair <i>David Percy</i>)
1100	Predictive Modelling of Match Results in the t20 Big Bash League Aaron Corris and Anthony Bedford	Investing in Three Point Shooting: A Strategic Portfolio Management Approach Mark Fichman and John O'Brien
1120	Player Projection in Belgian Basketball Joris Renkens, Yuri Passchyn and Jesse Davis	How to Win a Beach Volleyball Match Using Multi-Scale Markov Decision Processes Susanne Boerner
1140	Predicting the Final League Tables of Domestic Football Leagues Jan Van Haaren and Jesse Davis	An Integer Programming Model to provide Optimal Line-up for Master Swimming Relay Simona Mancini
1200	Statistical Modelling and Forecasting Association Football Results Jose Sellitti Rangel Junior	
1220–1330	LUNCH, <i>James France</i> exhibition area	

MONDAY 29 JUNE 2015

1330–1450	PERFORMANCE ANALYSIS <i>SMB014</i> (chair Alun Owen)	DATA COLLECTION TECHNOLOGY <i>SMB017</i> (chair Ben Halkon)
1330	Home Advantage in Individual Contest Tournaments Liam Lenten and James Reade	Assistive Sports Video Annotation: Modelling and Detecting Complex Events in Sports Video David Marshall, Aled Owen, Matthew Trott, Kirill Sidorov, Yulia Hicks and Rhodri Bown
1350	The Age Advantage in Association Football Steve Lawrence	A supervised PCA logistic regression model for predicting fatigue-related injuries using training GPS data Stylianos Kampakis, Ioannis Kosmidis, Ed Leng and Wayne Diesel
1410	The Ageing Game Simon Gleave and Mark Taylor	A Low-cost Spatiotemporal Data Collection System for Tennis Silvia Vinyes Mora, George Barnett, Casper O. da Costa-Luis, Jose Garcia Maegli, Martin Ingram, James Neale and William J. Knottenbelt
1430	So the last will be the first Ruud Koning and Manon Grevinga*	An overview of in-depth performance analysis for wheelchair rugby with the Australian Steelers Jason Hunt, Nick Sanders, Anthony Bedford and Stuart Morgan
1450–1520	REFRESHMENTS, <i>James France</i> exhibition area	
1520–1640	SCHEDULING <i>SMB014</i> (chair Chris Potts)	RANKING <i>SMB017</i> (chair Roland Minton)
1520	Parallel Scheduling of Several Non-Commercial Sport Leagues Jörn Schönberger	Who is the greatest? A Bayesian analysis of one-day international cricketers Pete Philipson and Richard Boys
1540	Diverse Formats of Professional Sports Leagues Kimmo Nurmi, Jari Kyngäs and Nico Kyngäs	Adapting the elo rating system for multi-competitor sports Pim Ritmeijer
1600	Timetabling a cricket league over a 9-year period Mike Wright	Sports Ranking Systems Efficiency Comparison George Kyriakides, Kyriacos Talattinis and George Stephanides
1620	What draws Belgian football fans to the game? Evidence from an online survey Chang Wang, Dries Goossens and Martina Vandebroek	Analysis of the 2014 Formula 1 Constructors Championship using a modified Condorcet Method João Carlos Soares de Mello, Catarina Mourão, Lidia Angulo Meza and Silvio Gomes Júnior
1700–1830	TOUR OF CAMPUS SPORTS AND SPORT RESEARCH FACILITIES <i>from SMB</i> foyer	
2100–2300	PUB QUIZ, <i>The Swan in the Rushes, Loughborough, LE11 5BE</i>	

TUESDAY 30 JUNE 2015

0840–0910	REFRESHMENTS, <i>James France</i> exhibition area	
0910–1000	KEYNOTE LECTURE, SMB014 (chair Frits Spieksma) Construction methods for sports league schedules Professor Sigrid Knust, University of Osnabrück	
1000–1100	PREDICTION <i>SMB014 (chair Ioannis Ntzoufras)</i>	PERFORMANCE ANALYSIS <i>SMB017 (chair Tim Swartz)</i>
	Comparative performance of models to forecast match wins in professional tennis: Is there a GOAT for tennis prediction? Stephanie Kovalchik	The Relative Competitive Balance of Male and Female Teams in World Championship Competition and the Relative Predictability of Official International Sports Rating Systems Ray Stefani
	Using tennis rankings to predict performance in upcoming tournaments Gerard Kuper, Gerard Sierksma and Frits Spieksma	Batting at Three in Five-Day Cricket: a Descriptive Analysis Jonathan Sargent
	Predicting the Results of Tennis and Volleyball Matches Using Regression Models, and Applications to Gambling Strategies. Edyta Dziedzic and Gordon Hunter	Graph Centrality Analysis for the Evaluation of the 2014 Guanabara Cup Luana C. Brandão, Renata R. Del-Vecchio and João Carlos C.B. Soares de Mello
1100–1130	REFRESHMENTS, <i>James France</i> exhibition area	
1130–1230	FITNESS & TRAINING <i>SMB014 (chair Ray Stefani)</i>	MODELLING & SIMULATION <i>SMB017 (chair Gordon Hunter)</i>
	A new algorithmic methodology for assessing, and potentially predicting, racing cyclists' fitness from large training data sets Andreas Petrides, Anthony J. Purnell and Glenn Vinnicombe	A competing risks model for the time to the first goal Petr Volf
	Modelling the training process in cycling Naif Alotaibi and Philip Scarf	Analysis of soccer data using COM-Poisson regression models Charalampus Chanialidis, Nial Friel, Dimitris Karlis and Ioannis Ntzoufras
	Linking the performance of endurance runners to training and physiological effects Ioannis Kosmidis and Louis Passfield	Robust modelling for soccer Dimitris Karlis
1230–1340	LUNCH, <i>James France</i> exhibition area	

TUESDAY 30 JUNE 2015

<p>1340–1500</p> <p>SPORTS ECONOMICS <i>SMB014 (chair Mark Fichman)</i></p> <p>1340 Economic Impact of Organizing Large-Scale Sports Events Elmer Sterken</p> <p>1400 Measuring Competitive Balance and Uncertainty of Outcome Hypothesis in European Football Vasileios Manasis, Ioannis Ntzoufras and J.James Reade</p> <p>1420 Smart ticket pricing in qualifying sports championships: an adaptive ticket sales to maximize fans satisfaction with higher net incomes Rosiane de Freitas</p> <p>1440 The Costing and pricing of sports events Stefan Kesenne</p>	<p>PERFORMANCE AND DATA ANALYSIS <i>SMB017 (chair Michael Wright)</i></p> <p>ODI Cricket: Analyzing Bowler Performance Using Stochastic Dominance Rules Uday Damodaran</p> <p>Analysis of referee differences in netball: a look at the ANZ Championship Jason Hunt and Anthony Bedford</p> <p>Introduction to the Infostrada Sports database Simon Gleave</p> <p>The Development and Assessment of an Automated Biomechanical Analysis Approach in Rowing Philip Harfield, Ben Halkon and Iain Phillips</p>
<p>1500–1530</p> <p>REFRESHMENTS, <i>James France exhibition area</i></p>	
<p>1530–1620</p> <p>KEYNOTE LECTURE, <i>SMB014 (chair Ben Halkon)</i> Model + Measurement = Medals, but in a non-deterministic way Professor Tony Purnell, Head of Technology, British Cycling</p>	
<p>1620–1720</p> <p>RULES AND FAIRNESS <i>SMB014 (chair Anthony Bedford)</i></p> <p>1620 Effects of Rules Changes in NHL Patrice Marek</p> <p>1640 A new Net Resource Factor based alternative method to calculate revised target in interrupted One Day Cricket Matches Sanjeet Singh and Arnab Adhikari</p> <p>1700 Rethinking the FIFA World Cup final draw Julien Guyon</p>	<p>ANALYSIS OF PLAY <i>SMB017 (chair João Soares de Mello)</i></p> <p>Quantifying Team and League Quality in Soccer via an Expected Goal Value Model Patrick Lucey</p> <p>Measuring Efficiency of a Set of Players of a Soccer Team and Differentiating Players Performances by their Reference Frequency Nobuyoshi Hirotsu and Tohru Ueda</p> <p>Modelling Predictability and Criticality in Penalty Shootout Competitions Alun Owen and Lucas Dias-Condexia</p>
<p>1900–2230</p> <p>CONFERENCE DINNER, <i>Trent Bridge cricket ground</i> <i>Coaches depart from Burleigh Court at 1800</i></p>	

WEDNESDAY 1 JULY 2015

0840–0910	REFRESHMENTS, <i>James France</i> exhibition area		
0910–1030	<p>SCHEDULING <i>SMB014</i> (<i>chair Dries Goossens</i>)</p> <p>A combined approach for approximating the Traveling Tournament Problem and the Traveling Umpire Problem Stephan Westphal and Marco Bender</p> <p>The schedule of the South American Qualifiers of the 2018 Football World Cup has no breaks in double rounds Mario Guajardo, Guillermo Durán and Denis Sauré</p> <p>Mathematical Models for an NBA-type Scheduling Format in the Argentinas National Basketball League Guillermo Duran, Santiago Duran, Javier Marenco, Federico Mascialino and Pablo Rey</p> <p>Scheduling Rugby in New Zealand Mark Johnston</p>	<p>BETTING <i>SMB017</i> (<i>chair Elmer Sterken</i>)</p> <p>Optimise Market Margins using a Conditional Value-at-Risk Model in Association Football Simon Spoerrendonk and Simon Kristiansen</p> <p>Unbiased wheel arrangements and combination betting in roulette David Percy</p> <p>Can betting in PGA golf be profitable? An analysis of common wagering techniques applied to outright winner market prices Bradley O'Bree and Anthony Bedford</p> <p>A safe bet – or is it? Dominic Cortis</p>	<p>INFOSTRADA WORKSHOP GGB01</p> <p>The Podium data tool Simon Gleave</p>
1030–1100	REFRESHMENTS, <i>James France</i> exhibition area		
1100–1220	<p>MODELLING & SIMULATION <i>SMB014</i> (<i>chair Uday Damodaran</i>)</p> <p>Problems in Twenty20 Cricket Addressed via Simulation Tim Swartz</p> <p>Probabilistic Modelling of Twenty-Twenty Cricket : An Investigation into Various Metrics of Player Performance and their Effects on the Resulting Match and Player Scores Dilaksha Attanayake and Gordon Hunter</p> <p>Skill importance across ages for men's Volleyball Sotirios Drikos and Ioannis Ntzoufras</p> <p>On the expected duration of a tennis set Marco Ferrante, Giovanni Fonseca, Maria Maistro and Davide Trevisiol</p>	<p>PERFORMANCE ANALYSIS <i>SMB017</i> (<i>chair Roger Brooks</i>)</p> <p>Assessing the effect of player ability on scoring performance for holes of different par score in PGA golf Bradley O'Bree, James Baglin and Anthony Bedford</p> <p>ShotLink and Consistency in Golf Roland Minton</p> <p>Identifying Cricket Bat-Ball Impact Characteristics: a Curve Fitting Technique Chris Peploe, Stuart McErlain-Naylor and Mark King</p> <p>Margin for Error: Snooker Shot Analysis James Orwell, Richard Allan and Gordon Hunter</p>	<p>INFOSTRADA WORKSHOP GGB01</p> <p>The Podium data tool Simon Gleave</p>
1220–1330	LUNCH, <i>James France</i> exhibition area		

WEDNESDAY 1 JULY 2015

1330–1430	BIOMECHANICS & TRAINING <i>SMB014</i> (chair <i>Phil Scarf</i>)	PREDICTION <i>SMB017</i> (chair <i>Anthony Kay</i>)
1330	Optimal Experimental Design for Parameter Estimation of Training-Performance Models Johannes Herold, Sebastian F. Walter, Stefan Körkel and Markus Buchner	Mathematical Models that Describe and Predict Performance Change in Men's and Women's Athletic Events: 1960–2014 Ian Heazlewood and Joe Walsh
1350	A three dimensional description of the hamstrings-quadriceps ratio from a minimal data set Dimitrios Voukelatos and Matthew Pain	Mathematical Models Predicting Performance in Track and Field at the 2011, 2013 and 2015 IAAF World Championships Ian Heazlewood and Joe Walsh
1410		Dynamic forecasting model based on ranking system for hockey match Blanka Šedivá
1430–1500	REFRESHMENTS, <i>James France</i> exhibition area	
1500–1550	KEYNOTE LECTURE, <i>SMB014</i> (chair <i>Philip Scarf</i>) Statistics at big sports events Dr Ian McHale, University of Manchester	
1550–1600	CLOSING REMARKS, <i>SMB014</i>	

Presenter is indicated with * if he/she is not the first author of a paper.