



Conference Schedule

MONDAY 29 JUNE 2015											
0900–0930	REGISTRATION AND REFRESHMENTS, <i>Stewart Mason Building foyer</i>										
0930–0940	OPENING REMARKS, <i>SMB014</i>										
0940–1030	KEYNOTE LECTURE, <i>SMB014</i> (chair Ray Stefani) Modeling uncertainty in finance and sport Mr David Kendix, Actuary and cricket statistician										
1030–1100	REFRESHMENTS, <i>James France exhibition area</i>										
1100–1220	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> PREDICTION <i>SMB014</i> (chair Frits Spijksma) </td> <td style="width: 50%; vertical-align: top;"> STRATEGY <i>SMB017</i> (chair David Percy) </td> </tr> <tr> <td style="vertical-align: top;"> 1100 Predictive Modelling of Match Results in the t20 Big Bash League Aaron Corris and Anthony Bedford </td> <td style="vertical-align: top;"> Investing in Three Point Shooting: A Strategic Portfolio Management Approach Mark Fichman and John O'Brien </td> </tr> <tr> <td style="vertical-align: top;"> 1120 Player Projection in Belgian Basketball Joris Renkens, Yuri Passchyn and Jesse Davis </td> <td style="vertical-align: top;"> How to Win a Beach Volleyball Match Using Multi-Scale Markov Decision Processes Susanne Boerner </td> </tr> <tr> <td style="vertical-align: top;"> 1140 Predicting the Final League Tables of Domestic Football Leagues Jan Van Haaren and Jesse Davis </td> <td style="vertical-align: top;"> An Integer Programming Model to provide Optimal Line-up for Master Swimming Relay Simona Mancini </td> </tr> <tr> <td style="vertical-align: top;"> 1200 Statistical Modelling and Forecasting Association Football Results Jose Sellitti Rangel Junior </td> <td></td> </tr> </table>	PREDICTION <i>SMB014</i> (chair Frits Spijksma)	STRATEGY <i>SMB017</i> (chair David Percy)	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	
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1220–1330	LUNCH, <i>James France exhibition area</i>										

MONDAY 29 JUNE 2015

1330–1450	PERFORMANCE ANALYSIS <i>SMB014 (chair Alun Owen)</i>	DATA COLLECTION TECHNOLOGY <i>SMB017 (chair Ben Halkon)</i>
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 <i>together with . . .</i>	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 exhibition area</i>	
1520–1640	SCHEDULING <i>SMB014 (chair Chris Potts)</i>	RANKING <i>SMB017 (chair Roland Minton)</i>
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 foyer</i>	
2100–2300	PUB QUIZ, <i>The Swan in the Rushes, Loughborough, LE11 5BE</i>	

TUESDAY 30 JUNE 2015

0840–0910	REFRESHMENTS, <i>James France exhibition area</i>	
0910–1000	KEYNOTE LECTURE, <i>SMB014 (chair Frits Spieksma)</i> 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>
1000	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
1020	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
1040	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 exhibition area</i>	
1130–1230	FITNESS & TRAINING <i>SMB014 (chair Ray Stefani)</i>	MODELLING & SIMULATION <i>SMB017 (chair Gordon Hunter)</i>
1130	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
1150	Modelling the training process in cycling Naif Alotaibi and Philip Scarf	Analysis of soccer data using COM-Poisson regression models Charalampos Chaniailidis, Nial Friel, Dimitris Karlis and Ioannis Ntzoufras
1210	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 exhibition area</i>	

TUESDAY 30 JUNE 2015

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

WEDNESDAY 1 JULY 2015

0840–0910	REFRESHMENTS, <i>James France exhibition area</i>		
0910–1030	SCHEDULING <i>SMB014 (chair Dries Goossens)</i>	BETTING <i>SMB017 (chair Elmer Sterken)</i>	
0910	A combined approach for approximating the Traveling Tournament Problem and the Traveling Umpire Problem Stephan Westphal and Marco Bender	Optimise Market Margins using a Conditional Value-at-Risk Model in Association Football Simon Spoorendonk and Simon Kristiansen	
0930	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	Unbiased wheel arrangements and combination betting in roulette David Percy	
0950	Mathematical Models for an NBA-type Scheduling Format in the Argentinas National Basketball League Guillermo Duran, Santiago Duran, Javier Marengo, Federico Mascialino and Pablo Rey	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	
1010	Scheduling Rugby in New Zealand Mark Johnston	A safe bet – or is it? Dominic Cortis	
1030–1100	REFRESHMENTS, <i>James France exhibition area</i>		
1100–1220	MODELLING & SIMULATION <i>SMB014 (chair Uday Damodaran)</i>	PERFORMANCE ANALYSIS <i>SMB017 (chair Roger Brooks)</i>	INFOSTRADA WORKSHOP <i>GGB01</i>
1100	Problems in Twenty20 Cricket Addressed via Simulation Tim Swartz	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	The Podium data tool Simon Gleave
1120	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	ShotLink and Consistency in Golf Roland Minton	
1140	Skill importance across ages for men's Volleyball Sotirios Drikos and Ioannis Ntzoufras	Identifying Cricket Bat-Ball Impact Characteristics: a Curve Fitting Technique Chris Peplow, Stuart McErlain-Naylor and Mark King	
1200	On the expected duration of a tennis set Marco Ferrante, Giovanni Fonseca, Maria Maistro and Davide Trevisiol	Margin for Error: Snooker Shot Analysis James Orwell, Richard Allan and Gordon Hunter	
1220–1330	LUNCH, <i>James France exhibition area</i>		

WEDNESDAY 1 JULY 2015

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

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