



MathSport
ASIA | 2024



IIMU

भारतीय प्रबंध संस्थान उदयपुर
Indian Institute of Management Udaipur



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MathSport Asia 2024

**International
Conference**

Bringing Math Into Sports

9-11

December 2024

**SAMMAAN
CAPITAL**

Jiyo Sammaan Se

Day 1: December 9th, 2024

Time	Events & Sessions	
08:30 - 09:00	Inauguration	
09:00 - 09:45	Plenary Session 1: “Scheduling Youth Competitions” <i>Speaker: Dries Goossens, Professor, Faculty of Economics and Business Administration, Ghent University, Belgium</i>	
10:00 - 11:00	Technical Session 1 - A1	Technical Session 1 - A2
	<ol style="list-style-type: none"> Satyam Mukherjee: <i>Prior shared successes and mediation in team competitions</i> Anand V: <i>Applying the Malmquist Productivity Index to Evaluate IPL Players' Performance</i> Rhitankar Bandyopadhyay: <i>Applications of higher order Markov models and Pressure Index to strategize controlled run chases in Twenty20 cricket</i> 	<ol style="list-style-type: none"> Apurva Jha: <i>Modeling Player Experience on Fantasy Sports Mobile Applications: Insights from Text Mining</i> Mohit Bhatnagar: <i>Evaluating the Effectiveness of Crowd Wisdom in IPL Fantasy League Team Compositions</i> Jimut Bahan Chakrabarty: <i>Leveraging Dynamic Player Rankings for Predicting Optimal Fantasy Teams in T20 Cricket: A Factor Score-Based Approach</i>
11:15 - 12:15	Technical Session 1 - B1	Technical Session 1 - B2
	<ol style="list-style-type: none"> Tarun Abhichandani: <i>The influence of performance in domestic tournaments on longevity in Indian Premier League (IPL) and viability of representing India – Analytical Approach</i> Ganesh Katrapati: <i>Sports data to stories- an AI-based framework for generating interesting content</i> Shabana Chandrasekaran: <i>Content Creator Personality and Fan Engagement: Twitter Analysis from FIFA 2022 World Cup</i> 	<ol style="list-style-type: none"> Gleb Vasiliev: <i>The Heat of the House: Analyzing Late-Game Performance in Curling</i> Rehan Bhatia: <i>Does scheduling and related travel impact the team and individual performances in NBA? Evidences from multiple seasons</i> Sadanand Venkataraman: <i>Redefining Talent Identification in Football: The YUVA-SQ Model</i>
12:30 - 01:30	Practitioner Talks 1	
	<ol style="list-style-type: none"> Anukool Bharadwaj, Chief Strategy Officer, OGQ: <i>Olympic Gold Quest: Earlier Roles at OGQ Head- Para Athlete Management, Head- Research & Analysis</i> Amit Purohit, Founder: <i>Fantasy Akhada, VUSport & FanToPark</i> 	
01:30 - 02:30	LUNCH	
02:30 - 03:15	Plenary Session 2: “Measurement of Competitive Balance and Outcome Uncertainty” <i>Speaker: Young Hoon Lee, Professor of Economics, Sogang University, South Korea</i>	
03:30 - 04:30	Technical Session 1 - C1	Technical Session 1 - C2
	<ol style="list-style-type: none"> Abhishek Chakraborty: <i>Analyzing the Competitiveness of European Football Leagues through Network Analysis</i> Lisa Garcia Tercero: <i>Minimal and fair waiting times for single-day sports tournaments with multiple fields</i> Jayadevan V: <i>The DLJ version, a new variant that eliminates all anomalies of the Duckworth and Lewis method</i> 	<ol style="list-style-type: none"> Kushagra Sharan: <i>Allocation of Resources and its Adaptation to Competition</i> Ashish L Karnavat: <i>Rank-based Model for Price-Differential for Exports of Media Broadcast Rights: Premier Badminton League, India</i> David Van Bulck: <i>How to organize a fair regaining competition?</i> Joonas Paakkonen: <i>Cross-Country Skiing Training Data Predict the Competition Results of an Olympic Gold Medalist</i>
05:00 - 06:00	Kabaddi Demo Game	
06:30 - 07:30	“Pulling Strings”: Social Event Hosted by EURO Working Group “OR in Sport”	
07:30 - 09:00	DINNER - Hosted by the Director, IIM Udaipur	

Day 2: December 10th, 2024

Time	Events & Sessions	
09:00 - 09:45	Plenary Session 3: “Fifty years modelling soccer scores: what have we learned?” <i>Speaker: Phil Scarf, Professor of Management Mathematics, Cardiff Business School, United Kingdom</i>	
10:00 - 11:00	Technical Session 2 - A1 <ol style="list-style-type: none"> Praveen D. Chougale: <i>Athlete ACWR Monitoring Tool: A Comprehensive Approach to Workload Management</i> Mohit Bhatnagar: <i>Analyzing Key Factors Influencing IPL Cricket Scores Using Explainable AI and Multi-Modal Data Integration</i> Bhaskar Basu: <i>T20 Team Selection: From Analytics to Action</i> 	Technical Session 2 - A2 <ol style="list-style-type: none"> Priyanka Talukdar: <i>Importance of Setting a Target in Case of a Limited Overs Cricket Match</i> Jayadevan V: <i>The net relative run rate method (NRRR), a foolproof technique to replace the net run rate (NRR) method in evaluating the authority of match-wins</i> Anthony Bedford: <i>Technology and Decision-Making in Sports</i>
11:15 - 12:15	Technical Session 2 - B1 <ol style="list-style-type: none"> Jimut Bahan Chakrabarty: <i>Critical Metrics for Assessing Test Cricket Performance: A Factor Analysis Approach</i> Kapil Gupta: <i>A Robust Multilevel Modeling Approach to Ranking Women's Batting Performances in Cricket</i> Anirudh Srikanth: <i>Extreme Heat and Productivity: Evidence from Elite Level Professional League Football</i> 	Technical Session 2 - B2 <ol style="list-style-type: none"> Nobuyoshi Hirotsu: <i>Evaluation of Rugby Teams Using Data Envelopment Analysis</i> Sweta Tiwari: <i>Exploring the Determinants of Football Performance in India: Economic, Physical, and Strategic Factors</i> Robert Younger: <i>Objectifying the Subjective: Turning Expert Recruiter Insight into Machine Analysable Data in Australian Football</i>
12:30 - 01:30	Practitioner Talks 2 <ol style="list-style-type: none"> V Jayadevan, <i>Creator of the VJD Method</i> Ramky S, <i>Promoter, Sports Mechanics India Pvt Ltd: Formerly Performance Analyst, Indian Cricket Team</i> 	
01:30 - 02:30	LUNCH	
02:30 - 03:15	Plenary Session 4: Modern Solutions to Ancient Problems: AI and CV Technology in Horse Racing <i>Speaker: Anthony Bedford, Associate Professor, Data Science, University of the Sunshine Coast, Australia</i>	
03:30 - 04:30	Technical Session 2 - C1 <ol style="list-style-type: none"> Karel Devriesere: <i>Reforming Belgian youth field hockey competitions with an incomplete round-robin tournament</i> Siddhartha K Rastogi: <i>Sporting Leagues of India: Insights for Economics, Management, and Sports</i> Subhasis Ray: <i>Best congregation of skill may not be enough for success in a team game- a provocative study around IPL 2024</i> 	
04:30 - 05:00	Practitioner Talks 3 <ol style="list-style-type: none"> Dhruv Kanal, <i>Senior Marketing Manager Infosys: Global Marketing Head for Sports Sponsorships, Implementing New Cutting Edge Technology in Tennis and Formula E</i> 	
05:00 - 07:30	City Visit	
08:00 - 10:00	Conference Dinner - Hosted by Plant Lipids Private Limited	

Day 3: December 11th, 2024

Time	Events & Sessions	
09:00 - 09:45	Plenary Session 5: “On Balanced Scheduling and Dynamic Updates in Double Round-Robin Tournaments: Applications in the Indian Super League” <i>Speaker: Shubhabrata Das, Professor, Decision Sciences, Indian Institute of Management Bangalore</i>	
10:00 - 11:00	Technical Session 3 - A1	Technical Session 3 - A2
	<ol style="list-style-type: none"> Satyam Mukherjee: <i>Competing Against Former Teammates Predicts Team Victory</i> Chitresh Kumar: <i>My country, my pitches! Assessing the impact of pitches, venue, and toss on Test Cricket outcomes</i> Apurva Jha: <i>Determinants of Online Fantasy Contest Choices: A Multinomial Logit Estimation</i> Soumya Sarkar: <i>Pep or PowerBI for Football Lineup Prediction?</i> 	<ol style="list-style-type: none"> Subhasis Ray: <i>In search of the winning formula and patterns in five major European soccer leagues</i> Jimut Bahan Chakrabarty: <i>Insights from Game Chatter: Commentary and Number driven T20 Match Predictions</i> Shobhit Aggarwal: <i>Does team composition affect team performance in cricket?</i> Praveen D Chougale: <i>Pre- and Post-Season Analysis of Physical and Performance Metrics in Thane City Football Club Youth Players</i>
11:15 - 12:15	Practitioner Talks 4 Mukul Choudhari, CEO, Jamshedpur Football Club and Chief of Sports Excellence Centres at Tata Steel	
12:30 - 01:30	Concluding Sessions: <ol style="list-style-type: none"> Presentation of Sammaan Best Paper Awards Presentation of Participation Certificates 	
01:30 - 02:30	LUNCH	

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