

DAY 1 - Le Gallerie, Trento

Session		Time	Room	Title	Presentations
Opening Ceremony		9.00 9.30	C1		- Flavio Deflorian (Rector of the University of Trento) - Elisabetta Bozzarelli (Deputy Mayor, City of Trento / City Councillor for Culture, School and Sport) - Tito Giovannini (Member of the Governing Board of the Fondazione Milano Cortina 2026 and President of the Olympic Coordination committee of the Autonomous Province of Trento) - Paola Mora (President of the Regional Olympic Committee - CONI Trentino) - Massimo Bernardoni (President of the regional Paralympic Committee - CIP Trentino) - Paolo Bertaccini (Sport4Impact) - Representatives of partner universities of the hosting regions
Parallel Session	Session 1	9.30	C1	Data Analytics, AI & Modeling for Sports	- PATS: Proficiency-Aware Temporal Sampling for Multi-View Sports Skill Assessment - Graph-Based Unsupervised Temporal Segmentation of Diving Actions - UWB-Based Multiplayer Positioning System for Water Polo - Biomechanical-Phase Based Temporal Segmentation in Sports Videos - Assessment of 1m 105c Springboard Dive by ML Image Processing and IMU
	Session 2	- 11.10	C2	Wearables, IoT & Physiological Monitoring	- Real-Time Jump Activity Recognition and Jump Height Estimation Using IMU - Breaking the Game: Low-Cost 3D Human and Ball Pose Estimation in Basketball - Comparing IMU and Optical Motion Capture System for Sport Biomechanics - Evaluating Drift and Uncertainty in IMU-Based Bike Lean Angle Measurements - Real-Time Feedback for Simulated Nordic and Para Nordic Skiing
Coffee Break		11.10 11.30	B3		
Keynote Lecture 1		11.30 12.15	C1		Duccio Ferrari Bravo, Juventus Football Club
Keynote Lecture 2		12.15 13.00	C2		Marco Moretti, CTO Milano Cortina 2026 Foundation
Lunch Break		13.00 14.00	B3		
Industrial Session	Introduction	14.00 14.25	C1	Where Research Meets Real-World Impact	- Introduction Federico Smanio (CEO Wylab) & Paolo Bouquet (Università di Trento) - Sport Reloaded: Technology for a Better Game. Exploring how innovation can reset the playing field - on and off the pitch Francesco Rossi (Partner, CdP Venture Capital, Serial entrepreneur)
	Part 1	14.25 15.15	C1	Beyond Sport: Enhancing Human Potential	- Tech showcase Luca Cocco (Microgate) - Panel discussion "Training Better, Living Smarter: How new tech can revolutionize the sports and life Performance"

					Lorenzo Bortolan (CERISM) - Gianpietro Beltramello (Gabel Tech) - Gabriele Santicchi (Soccerment)
	Part 2	15.15 15.30	C1	Beyond Sport: Enhancing Human Potential	Tech showcase Pierluigi Bongiorno (MLA)
Coffee Break		15.30 16.00	B3		
Industrial Session	Introduc tion	16.00 16.35	C1	Beyond Sport: Enhancing Human Potential	Panel discussion “Breaking Barriers: When Startups and Sports Organizations Co-Create” Pietro Marini (Deltatre) - Mirko Clemente (Sportwig) - Giovanni Bertoli (WSF)
	Panel Discussio n	16.35 17.25	C1	Technology Transfer in Sport: From Research to the Real World	- Tech showcase Paolo Belluco (LWT3) - Panel discussion “Science to Startup: can academic research play the real game?” Mattia Muracchioli (STAM) Luca Fortini (Real Move) - Tommaso Rosi (LevelUp) - Francesco Rossi (CdP Venture)
Wrap Up		17.25 18.00	C1		- Fireside chat: Leading Through Change: Sport, Life and Legacy - A personal journey through transformation, innovation and reinvention Maria Laura Guardamagna (Avvocato, Arbitro UCI, Formatore della Formazione Olimpica CONI) - Final remarks Federico Smanio (CEO Wylab) Paolo Bouquet (Università di Trento)
Social Program		18.00 19.00			Guided visit to the exhibition Performance- Interconnecting Rings”

DAY 2 - Ski Jumping Stadium, Predazzo

Session		Time	Room	Title	Presentations
Opening Ceremony		9.00			Mayor of Predazzo
		9.30			
Keynote Lecture 3		9.30			Sandro Pertile, FIS Ski Jumping Race Director
		10.30			
Coffee Break		10.30			
		11.00			
	Session 3	11.00 12.40		Imaging, Multimedia & Extended Reality	- Tracking Volleyball Players from a Multi-Camera Top-View Setup - Monocular Camera-Based System for Curling Strategy - Automatic Climbing Move Detection from Bouldering Videos - Reconstructing Velocity Profiles in Canoe Sprint Videos - A Human Activity Recognition Algorithm Using Three IMU-Based Units
Lunch Break		12.40			
		14.00			
	Session 4	14.00 15.30		Data Analytics, AI & Modeling for Sports	- Multimodal Pass Receiver Prediction in Soccer with LLMs - Data-Driven Models for Predicting Player Market Value in European Football - Modelling Player Progression in Rugby Union: Premiership Attainment - Interpretable ML for Identifying Performance-Critical Flight Phases in Ski Flying
Coffee Break		15.30			
		16.00			
	Session 5	16.00 17.30		Data Analytics, AI & Modeling for Sports	- Development of a Digital Curling AI with Deep Reinforcement Learning - Rotational Dynamics and Trajectory Prediction of Curling Stones - Real-Time Curling Trajectory Prediction with Attention Modeling - Input Encoding Strategies for Curling Score Prediction - Modelling Motor Competence Interdependencies: An XAI and Graph Analytics Approach
Social Program		19.30			Social Dinner at Grand Hotel Trento

DAY 3 - Le Gallerie, Trento

Session		Time	Room	Title	Presentations
Coffee Break		10.30 11.00	B3		
Parallel Session	Session 6		C1	Rehabilitation, Medicine & Assistive Tech	- Monitoring Seasonal Changes in Jump Ability and Shoulder Strength in Volleyball - Knee and Ankle Kinematics in Snowboarding for Above-Knee Amputation - Front Kick Analysis in Kickboxing Athletes Using IMUs - Understanding Barriers: Exergame for ACL Rehabilitation
	Session 7	11.00 12.30	C2	Imaging, Multimedia & Extended Reality	- Experimental Analysis of Sub-GHz RF Communication for In-Water Wearables - Assessment of Swimming Technique and Performance of Paralympic Water Polo Athletes - AI Website to Recognize Hazards and Manage Risks in Outdoor Sports - Sound-Based Spin Estimation in Table Tennis - P-SPIN: Real-Time Feedback System for Table Tennis
Lunch Break		12.30 14.00	B3		
Parallel Session	Session 8		C1	Wearables, IoT & Physiological Monitoring	- Multimodal Pass Receiver Prediction in Soccer with LLMs - Data-Driven Models for Predicting Player Market Value in European Football - Modelling Player Progression in Rugby Union: Premiership Attainment - Interpretable ML for Identifying Performance-Critical Flight Phases in Ski Flying
	Session 9	14.00 15.30	C2	Rehabilitation, Medicine & Assistive Tech	- Technological and Biomechanical Advances in Handcycling - VR Assessment of Auditory Spatial Perception in Blind Football Players - Motor and Cognitive Load Effects on Attention in Children: Dual-Task Study - Survey-Based Analysis of Habits Driving Success in Esports Athletes in MENA
Coffee Break		15.30 16.00	B3		
Parallel Session	Session 10		C1	Wearables, IoT & Physiological Monitoring	- Graded Auxetic Lattices for Sports Impact Protection - Self-Powered Co-Harvesting for Batteryless Sensing in Two-Wheeled IoT - An E-Smart-Bike to Reduce Exposure to Air Pollutants (35) - Monitoring the Autonomic Nervous System to Enhance VO₂max
	Session 11	16.00 17.30	C2	Sport Management, Society & e-Sports	- Cardiorespiratory and Biomechanical Adaptations to Rowing - Self-Administered Protocol for Rowing Motion Analysis on Ergometer - From IMUs to Smartwatches: Measuring Performance in Practical Shooting
Final Remarks		17.30 18.00	C1		

Session	Day and Time	Paper	Authors	Presenter
1	29th October 11.00	Assessment of 1m 105c Springboard Dive by ML Image Processing and IMU	Andrea Zanela (ENEA, Italy); Aatheethyaa Dhanasekaran (Sports Engineering Lab, University of Rome Tor Vergata, Italy); Lucio Caprioli (University of Rome Tor Vergata, Italy); Manuele Scifoni (Sports Engineering Lab, University of Rome Tor Vergata, Italy); Flavio Centurioni (Sports Engineering Lab Dept. Industrial Eng. University of Rome Tor Vergata, Italy); Vincenzo Bonaiuto (Tor Vergata University of Rome, Italy)	Vincenzo Bonaiuto
		Biomechanical-Phase Based Temporal Segmentation in Sports Video	Bikash Kumar Badatya and Vipul Baghel (Indian Institute of Technology Gandhinagar, India); Jyotimoy Amin (IISER Berhampur, India); Ravi Hegde (IIT Gandhinagar, India)	Ravi Hedge
		Graph-Based Unsupervised Temporal Segmentation of Diving Actions	Bikash Kumar Badatya and Vipul Baghel (Indian Institute of Technology Gandhinagar, India); Ravi Hegde (IIT Gandhinagar, India)	Ravi Hedge
		PATS: Proficiency-Aware Temporal Sampling for Multi-View Sports Skill Assessment	Edoardo Bianchi and Antonio Liotta (Free University of Bozen-Bolzano, Italy)	Edoardo Bianchi
		UWB-Based Multiplayer Positioning System for Water Polo	Florent Cotton (Samovar, Télécom SudParis, Institut Polytechnique de Paris, France & Efrei Research Lab, France); Laurie Contevelle (Efrei Paris, France); Elizabeth Colin (EFREI Paris, France); Wegryzn-Wolska Katarzyna (EFREI PARIS, France)	Florent Cotton
2	29th October 11.00	Breaking the Game: Low-Cost 3D Human and Ball Pose Estimation in Basketball	Giulia Martinelli, Niccolò Bisagno and Nicola Conci (University of Trento, Italy)	Giulia Martinelli
		Comparing IMU and Optical Motion Capture System for Sport Biomechanics	Damiano Fruet, Arianna Tauro and Dalia Di Liberto (University of Trento, Italy); Chiara Pedrotti (University of Pisa, Italy); Ilaria Bracci (Lincotek, Italy); Giandomenico Nollo (University of Trento, Italy)	Damiano Fruet
		Evaluating Drift and Uncertainty in IMU-Based Bike Lean Angle Measurements	Dave Hanegraaf (University of Groningen, The Netherlands & DSMC, University of Brescia, Italy); Enrico Ferlinghetti (University of Brescia, Italy & University of Gronigen, The Netherlands); Matteo Lancini (University of Brescia, Italy)	Dave Hanegraaf
		Real-Time Feedback for Simulated Nordic and Para Nordic Skiing on a Treadmill: a New Training and Analysis Tool	Jules Claudel (CeRiSM - University of Verona, Italy); Chiara Zoppirolli, Barbara Pellegrini, Federico Schena and Lorenzo Bortolan (University of Verona, Italy)	Jules Claudel
		Real-Time Jump Activity Recognition and Jump Height Estimation Using IMU	Maiva Schela Magnifouet Zefack (Icam Ouest, Cameroon); Jérôme Rocheteau (Icam Ouest, France & LS2N, France)	Jerome Rocheteau

3	30th October 11.00	A Human Activity Recognition Algorithm Using Three IMU-Based Units	Alessandra Angelucci, Fabrizio Lodi Rizzini, Alessandro Lori, Marco Mariani, Giovanni Mocetti, Gianluca Morotti, Pietro Maver, Marco Tarabini and Andrea Aliverti (Politecnico di Milano, Italy)	Alessandra Angelucci
		Automatic Climbing Move Detection from Bouldering Videos	Keita Kimura and Yasumasa Tamura (Hokkaido University, Japan); Shimpei Aihara (Japan Institute of Sports Sciences, Japan); Masahito Yamamoto (Hokkaido University, Japan)	Keita Kimura
		Monocular Camera-Based System for Curling Strategy	Riku Hara (The University of Electro-Communications, Japan); Shimpei Aihara (Japan Institute of Sports Sciences, Japan); Takeshi Ito (The University of Electro-Communications, Japan)	Riku Hara
		Reconstructing Velocity Profiles in Canoe Sprint Videos	Daniel Matthes, Patrick Frenzel and Julian Ziegler (Leipzig University of Applied Sciences, Germany); Torsten Warnke (Institute for Applied Training Science (IAT), Germany); Tina Kövari (German Canoe Federation, Germany); Mirco Fuchs (Leipzig University of Applied Sciences, Germany)	Mirco Fuchs
		Tracking Volleyball Players from a Multi-Camera Top-View Setup	Niccolò Bisagno, Giulia Martinelli and Nicola Conci (University of Trento, Italy)	Niccolò Bisagno
4	30th October 14.00	Data-Driven Models for Predicting Player Market Value in European Football	Mattias Sjögren (Linköping University, Sweden); Alex Jorge and Jesper Haglöf (Football Analytics Sweden AB, Sweden); Niklas Carlsson and Patrick Lambrix (Linköping University, Sweden)	Mattias Sjogren
		Interpretable ML for Identifying Performance-Critical Flight Phases in Ski Flying	Lawrence Araa Odong and Paolo Bouquet (University of Trento, Italy)	Lawrence Odong
		Modelling Player Progression in Rugby Union: Premiership Attainment	Asma Slaimi, Amy Shelley, Áine Macnamara, Jamie Taylor, Stephen Behan and Michael Scriney (Dublin City University, Ireland)	Asma Slaimi
		Multimodal Pass Receiver Prediction in Soccer with LLMs	Tim Schlippe and Frederic Pieper (IU International University of Applied Sciences, Germany)	Tim Schlippe
5	30th October 16.00	Development of a Digital Curling AI with Deep Reinforcement Learning	Itsuki Kurata and Tomomichi Kanaeda (The University of Electro-Communications, Japan); Shimpei Aihara (Japan Institute of Sports Sciences, Japan); Takeshi Ito (The University of Electro-Communications, Japan)	Itsuki Kurata
		Input Encoding Strategies for Curling Score Prediction	Rintaro Chiba and Yasumasa Tamura (Hokkaido University, Japan); Shimpei Aihara (Japan Institute of Sports Sciences, Japan); Masahito Yamamoto (Hokkaido University, Japan)	Rintaro Chiba
		Modelling Motor Competence Interdependencies: An XAI and Graph Analytics Approach	Colm O'Donaghue, Michael Scriney, Sarahjane Belton, Stephen Behan	Colm O'Donaghue
		Real-Time Curling Trajectory Prediction with Attention Modeling	Guanyu Chen (Future University Hakodate, Japan); Shimpei Aihara (Japan Institute of Sports Sciences, Japan); Yoshinari Takegawa (Future University Hakodate, Japan)	Guanyu Chen

6	31st October 11.00	Rotational Dynamics and Trajectory Prediction of Curling Stones	Sampath Kumar Reddy Gondesi and Fumito Masui (Kitami Institute of Technology, Japan); Shimpei Aihara (Japan Institute of Sports Sciences, Japan); Michal Ptaszynski (Kitami Institute of Technology, Japan)	Sampath Kumar Reddy Gondesi
		Front Kick Analysis in Kickboxing Athletes Using IMUs	Giorgia Palotti (Politecnico di Milano, Italy & INAIL, Italy); Michele Brambilla (Politecnico di Milano, Italy); Cristina Chieffo (Politecnico di Milano, Italy & INAIL, Italy); Filippo Motta, Marco Tarabini and Manuela Galli (Politecnico di Milano, Italy)	Michele Brambilla
		Knee and Ankle Kinematics in Snowboarding for Above-Knee Amputation	Jules Olivié and Delphine Chadeaux (Université Sorbonne Paris Nord, France); Xavier Bonnet (Arts et Métiers Institute of Technology, France); Patricia Thoreux (Université Sorbonne Paris Nord, France)	Jules Olivié
		Monitoring Seasonal Changes in Jump Ability and Shoulder Strength in Volleyball	Claudia Brunetti, Pietro Maver, Filippo Bertozzi, Manuela Galli and Marco Tarabini (Politecnico di Milano, Italy)	Pietro Maver
		Understanding Barriers: Exergame for ACL Rehabilitation	Luz Alejandra Magre Colorado (Dublin City University, Ireland & Universidad Tecnologica de Bolivar, Colombia); Sonal Santosh Baberwal (Dublin City University, Ireland); K. R. Sanjaya D. Gunawardhana (Dublin City University, Ireland & Insight SFI Centre for Data Analytics, Ireland); Kieran Moran (Maynooth University, Ireland); Shirley Coyle (Dublin City University, Ireland)	Luz Alejandra Magre Colorado
7	31st October 11.00	AI Website to Recognize Hazards and Manage Risks in Outdoor Sports	Elisa Pichini Maini (INAIL - National Institute for Insurance on Accidents at Work, Italy & INAIL, Italy); Fabio Massimo Zanzotto and Elena Sofia Ruzzetti (University of Rome "Tor Vergata", Italy); Angelo Seneci (Outdoor Advisor, Italy); Angelo Rodio (University of Cassino and Southern Lazio, Italy); Laura Tomassini (INAIL, Italy)	Elisa Pichini Maini
		Assessment of Swimming Technique and Performance of Paralympic Water Polo Athletes	Lucio Caprioli (University of Rome Tor Vergata, Italy); Francesca Campoli (Sport Engineering Lab - University of Rome Tor Vergata, Italy); Leonardo Della Loggia (Sports Engineering Laboratory, Italy); Saeid Edriss (University of Rome Tor Vergata, Italy); Mario Giuliano and Antonella Galvan (FINP, Italy); Amani Najlaoui (Sports Engineering Laboratory, Italy); Eva Ruiz Martinez (Catalonian, Spain); Cristian Romagnoli (San Raffaele Rome University, Italy); Elvira Padua (San Raffaele Rome Open University, Italy); Giuseppe Annino and Vincenzo Bonaiuto (Tor Vergata University of Rome, Italy)	Vincenzo Bonaiuto
		Experimental Analysis of Sub-GHz RF Communication for In-Water Wearables	Luca Borgianni (University of Pisa, Italy); Luca Boggioni and Lorenzo Monti (Cubit, Italy); Stefano Giordano, Sergio Saponara and Andrea Caiti (University of Pisa, Italy); Andrea Munafò (National Oceanography Centre, United Kingdom (Great	Marco Ottella

			Britain)); Marco Ottella (Xtremion Technology GmbH, Austria)	
		P-SPIN: Real-Time Feedback System for Table Tennis	Christian Angelo Dionlay and Lucky Angelico A Nagpala (University of the Philippines Los Baños, Philippines)	
		Sound-Based Spin Estimation in Table Tennis	Thomas Gossard, Julian Schmalzl, Andreas Ziegler and Andreas Zell (University of Tuebingen, Germany)	Thomas Gossard
8	31st October 14.00	Assessing Inhaled Dose of Pollutants with Wearable Environmental Monitor	Sara Bernasconi, Alessandra Angelucci, Marco Banfi and Andrea Aliverti (Politecnico di Milano, Italy)	
		Optimizing Athletic Performance Through Personalized Sleep Monitoring	Susanna Bardini, Francesca Biondi, Beatrice Campo, Benedetta Di Sarno and Leo Valentino Crippa (Politecnico di Milano, Italy); Marco D Santambrogio (Politecnico di Milano & MIT, Italy)	Susanna Bardini
		OptoSens: Optical Mask for Sleep Quality Monitoring	Susanna Bardini and Mirko Salaris (Politecnico di Milano, Italy); Marco D Santambrogio (Politecnico di Milano & MIT, Italy)	Susanna Bardini
		Time-Series Prediction of Toe Temperature Using LSTM	Eleonora Bianca, Paolo Dabove, Gianluca Boccardo and Ada Ferri (Politecnico di Torino, Italy)	Eleonora Bianca
9	31st October 14.00	Motor and Cognitive Load Effects on Attention in Children: Dual-Task Study	Alice Montelaghi (Free University of Bozen-Bolzano, Italy & University of Verona, Italy); Marta Duina, Antonino Mulè and Attilio Carraro (Free University of Bozen-Bolzano, Italy)	Alice Montelaghi
		Survey-Based Analysis of Habits Driving Success in Esports Athletes in MENA	Ibrahim Almansour and Lamia Alkwai (King Abdulaziz City for Science and Technology, Saudi Arabia); Latifah AlJafar and Aiman Noorwali (King Abdulaziz City for Science and Technology, Saudi Arabia)	Latifah Aljafar
		Technological and Biomechanical Advances in Handcycling	Laura Gastaldi, Alessandro Di Gesù and Chiara Gastaldi (Politecnico di Torino, Italy)	Laura Gastaldi
		VR Assessment of Auditory Spatial Perception in Blind Football Players	Yuta Ochiai (Waseda University, Japan); Ayumu Tsuji (Waseda University, Japan); Shimpei Aihara (Japan Institute of Sports Sciences, Japan); Hiroyasu Iwata (Waseda University, Japan)	Yuta Ochiai
10	31st October 16.00	An E-Smart-Bike to Reduce Exposure to Air Pollutants	Alberto Bonardi and Roberto Zanotti (University of Brescia, Italy); Francesco Negro (Università Degli Studi di Brescia, Italy); Danilo Iannetta (University of Brescia, Italy)	Alberto Bonardi
		Graded Auxetic Lattices for Sports Impact Protection	Seyedkamal Jalali (University of Trento, Italy); Mahmood Heshmati (Kermanshah University of Technology, Iran); Mariafederica Parisi, Daniel Colombo and Martino Colonna (Università di Bologna, Italy); Nicola Pugno (University of Trento, Italy)	Seyedkamal Jalali
		Monitoring the Autonomic Nervous System to Enhance VO₂max	Mince Alaedine and Laurent Mourot (Université Marie et Louis Pasteur, France)	Laurent Mourot
		Self-Powered Co-Harvesting for	Giuseppe Pasquini, Davide Brunelli and Maria Doglioni	Giuseppe Pasquini

		Batteryless Sensing in Two-Wheeled IoT	(University of Trento, Italy)	
11	31st October 16.00	Cardiorespiratory and Biomechanical Adaptations to Rowing	Alessandra Isella, Camilla Previde Massara, Davide Marchesi, Sara Muttoni, Andrea Enrico Panzeri, Alice Viganò, Alessandra Angelucci, Claudia Brunetti, Francesco Iacomi, Pietro Maver, Pietro Massone, Edoardo M. Polo, Andrea Aliverti and Riccardo Barbieri (Politecnico di Milano, Italy)	Alessandra Isella
		From IMUs to Smartwatches: Measuring Performance in Practical Shooting	Gabriele Pancera and Massimiliano Micheli (University of Brescia, Italy); Stefano Morzenti (Fabbrica d'Armi P. Beretta S.p.A., Italy); Matteo Lancini (University of Brescia, Italy)	Matteo Lancini
		Self-Administered Protocol for Rowing Motion Analysis on Ergometer	Silvia Crosio, Valerio Cornagliotto, Laura Gastaldi and Stefano Pastorelli (Politecnico di Torino, Italy)	Laura Gastaldi