

ISBS 2024 - Presentations

Day	Session	Time	ID Speaker	Title
Tue	Oral 1	9:00 AM	2699 Braun	THE TRADE-OFF BETWEEN CUMULATIVE JOINT LOADING AND COST OF TRANSPORT WHEN ALTERING ANTERIOR TRUNK LEAN ANGLE IN RUNNING
Tue	Oral 1	9:15 AM	2771 Emmerson	ON-COURT MECHANICAL WORK MEASURED USING MARKERLESS MOTION CAPTURE IS ASSOCIATED WITH ACUTE FATIGUE IN TENNIS
Tue	Oral 1	9:30 AM	2725 Lyons	AGREEMENT AND RELIABILITY OF GAIT METRICS MEASURED USING THE STRIDE SMART SYSTEM IN THE ALTERG TREADMILL COMPARED TO XSSENS
Tue	Oral 1	9:45 AM	2709 Pürzel	HIP MOMENT INCREASES WHILE KNEE AND ANKLE MOMENTS REMAIN CONSTANT DURING SQUATS WITH INCREASING LOADS IN ELITE POWERLIFTERS
Tue	Oral 1	10:00 AM	2715 Zeff	VISUAL TASK CONSTRAINTS INFLUENCE HEAD CONTROL AND COORDINATION VARIABILITY IN CONTACT SPORT ATHLETES
Tue	Oral 2	9:00 AM	2765 Mohr	ON-FIELD ASSESSMENT OF CHANGE-OF-DIRECTION (COD) MOVEMENTS: ADAPTATION IN LEG AND TRUNK POSTURE THROUGHOUT A COD SEQUENCE
Tue	Oral 2	9:15 AM	2875 Di Paolo	TESTING INJURY RISK IN ACL-RECONSTRUCTED FOOTBALL PLAYERS ON THE FIELD: A PRACTICAL TOOL TO ASSESS CUTTING BIOMECHANICS THROUGH WEARABLE SENSORS
Tue	Oral 2	9:30 AM	2922 Callaghan	EXAMINING THE IMPACT OF APPROACH AND EXIT PHASE STRATEGIES ON CHANGE OF DIRECTION PERFORMANCE: A NOVEL METHODOLOGY
Tue	Oral 2	9:45 AM	2940 Starbuck	JOINT POWER CONTRIBUTIONS DURING 90-DEGREES CHANGE OF DIRECTION IN KNEES FOLLOWING MENISCECTOMY
Tue	Oral 2	10:00 AM	2729 Bertozzi	INFLUENCE OF MOTOR-COGNITIVE PERFORMANCE ON LANDING BIOMECHANICS IN DIFFERENT CONDITIONS: PRELIMINARY RESULTS
Tue	Oral 3	9:00 AM	2949 Becirovic	ANALYSIS OF SPRINT RELATED PERFORMANCE INDICATORS IN PROFESSIONAL YOUTH SOCCER ACROSS AGE GROUPS & POSITIONS
Tue	Oral 3	9:15 AM	2716 Vial	PEAK HAMSTRING MUSCLE-TENDON LENGTHS DURING NON-FATIGUED AND FATIGUED ACCELERATIVE AND MAXIMAL SPEED SPRINT RUNNING IN SOCCER PLAYERS
Tue	Oral 3	9:30 AM	2783 White	THE IMPACT OF GROUND REACTION FORCE VARIABLES ON BEND SPRINT RUNNING PERFORMANCE
Tue	Oral 3	9:45 AM	2812 Denis	IMPACT OF FOREFOOT CUSHIONING STIFFNESS ON BLOCK START PERFORMANCE IN SPRINTING
Tue	Oral 3	10:00 AM	2878 Hirono	ASYMMETRY IN THE APPLICATION OF INWARD GROUND REACTION FORCE DURING CURVED SPRINTING ON ATHLETIC TRACK
Tue	Oral 4	9:00 AM	2712 Simon	CHANGES IN ROWING ERGOMETER TECHNIQUE AND POWER OUTPUT AFTER A SPECIFIC CORE TRAINING PROGRAM
Tue	Oral 4	9:15 AM	2767 Jones	DEVELOPING A NEW PERFORMANCE MEASURE TO QUANTIFY THE DIFFERENCE BETWEEN ACTUAL AND PREDICTED ON-WATER ROWING PERFORMANCE
Tue	Oral 4	9:30 AM	2841 Sun	THE EFFECTS OF 8 WEEKS CORE COMBINED LOWER LIMB STRENGTH TRAINING ON ADOLESCENT SWIMMERS' MEDLEY TURNING TECHNIQUE
Tue	Oral 4	9:45 AM	2884 Borgonovo-Santos	ADVANCING AQUATIC MOTION TRACKING THROUGH MULTI-SENSOR DATA FUSION SURFING THE GIANT WAVES OF NAZARÉ – STUDY CASE
Tue	Oral 4	10:00 AM	2962 Koster	DOES THE ALIGNMENT OF THE FORCE VECTOR AND THE CENTRE OF MASS TRAJECTORY AFFECT TUMBLE TURN PERFORMANCE?

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Day	Session	Time	ID	Speaker	Title
Tue	Oral 5	4:00 PM	2782	Carter	ESTIMATING JOINT MOMENTS DURING TREADMILL RUNNING USING VARIOUS CONSUMER BASED WEARABLE SENSOR LOCATIONS
Tue	Oral 5	4:15 PM	2772	Debertin	DIFFERENCES BETWEEN PARALLEL SKIING AND CARVING BASED ON WEARABLE SENSOR DATA AND TECHNIQUE ANALYSIS ALGORITHMS
Tue	Oral 5	4:30 PM	2778	Höschler	TOWARDS REAL-TIME ASSESSMENT: WEARABLE-BASED ESTIMATION OF 3D KNEE KINETICS IN RUNNING AND THE INFLUENCE OF PREPROCESSING WORKFLOWS
Tue	Oral 5	4:45 PM	2726	Song	TRUNK POSTERIOR PULLING PERTURBATION INCREASED VARIABLES ASSOCIATED WITH ACL LOADING DURING LANDING
Tue	Oral 6	4:00 PM	2798	Kim	USING SUBJECT-SPECIFIC STRENGTH COEFFICIENTS TO SCALE MAXIMUM ISOMETRIC FORCES FOR MUSCULOSKELETAL SIMULATION
Tue	Oral 6	4:15 PM	2807	Bedo	FATIGUE-INDUCED CHANGES IN KNEE KINEMATICS AND MUSCLE FORCES IN PROFESSIONAL HANDBALL-SPECIFIC TASK
Tue	Oral 6	4:30 PM	2886	Birk	CALCULATION AND EVALUATION OF A THREE-DIMENSIONAL FORCE FOLLOWING BOXING PUNCHES ON A DUMMY HEAD
Tue	Oral 6	4:45 PM	2912	Gupta	MODELLING OF SCAPULAR MOTION INFLUENCES THE ESTIMATED GLENOHUMERAL JOINT TORQUES DURING VOLLEYBALL HITTING
Tue	Oral 6	5:00 PM	2920	Krämer	OPENSIM FULL-BODY MODEL FOR ATHLETES WITH A RUNNING-SPECIFIC BELOW THE KNEE PROSTHESIS
Tue	Oral 7	4:00 PM	2706	Dai	EFFECTS OF VISION AND MULTIPLE COGNITIVE TASKS ON PRE-LANDING AND EARLY LANDING MECHANICS ASSOCIATED WITH ACL LOADING
Tue	Oral 7	4:15 PM	2755	Jeong	NOVEL STRENGTH TRAINING TARGETING MEDIAL QUADRICEPS/HAMSTRING CAN ALTER THE BIOMECHANICAL RISK FACTORS FOR ACL INJURY
Tue	Oral 7	4:30 PM	2780	DUCHENE	EXPLORING THE PERFORMANCE – ACL INJURY RISK CONFLICT DURING ANTICIPATED AND UNANTICIPATED SIDESTEPPING TASKS
Tue	Oral 7	4:45 PM	2788	Weber	CORRELATION BETWEEN LABORATORY AND FIELD CORE STABILITY TESTS AND THEIR LINK WITH PERFORMANCE AND ACL INJURY RISK
Tue	Oral 7	5:00 PM	2849	Rasp	FEMALE ATHLETES ARE AT HIGHER RISK TO SUFFER ANTERIOR CRUCIATE LIGAMENT RUPTURES DURING THE OVULATORY PHASE OF THEIR MENSTRUAL CYCLE
Tue	Oral 8	4:00 PM	2704	Achermann	VELOCITY-BASED STRENGTH TRAINING: COMPARING DURATION AND MEAN VELOCITY TO PREDICT THE MAXIMUM NUMBER OF REPETITIONS IN A SET
Tue	Oral 8	4:15 PM	2779	Nijmeijer	COMPARISON OF DISCRETE (0D) AND CONTINUOUS (1D) ANALYSIS OF SIDESTEP CUTTING KINEMATICS AND KINETICS
Tue	Oral 8	4:30 PM	2781	White	DEVELOPMENT AND RECOMMENDATION OF KINEMATIC EVENT DETECTION METHODS FOR USE DURING BEND SPRINT RUNNING
Tue	Oral 8	4:45 PM	2934	Vargas-Blanchard	SPRING-MASS MODEL SYMMETRY CHARACTERISTICS IN DISTANCE RUNNERS ACROSS A COMPETITIVE SEASON
Tue	Oral 8	5:00 PM	2944	Teufel	COMPARING JUMP HEIGHT ESTIMATED FROM A VIRTUAL REALITY HEAD-MOUNTED-DISPLAY AND A FORCE PLATE

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Day	Session	Time	ID	Speaker	Title
Wed	Oral 9	9:00 AM	2697	Evans	TEACHING NEWTON'S LAWS OF MOTION IN BIOMECHANICS USING GAME-BASED PEDAGOGY FOR HIGH SCHOOL TEACHERS' PROFESSIONAL DEVELOPMENT
Wed	Oral 9	9:15 AM	2757	Lee	APPLICATION OF QUALITATIVE MOVEMENT DIAGNOSIS ON SPRINT START
Wed	Oral 9	9:30 AM	2834	Zhang	A PRACTICE-ORIENTED TEACHING STRATEGY INVOLVING BOULDERING IMPROVES STUDENTS' ACADEMIC UNDERSTANDING OF MECHANICS
Wed	Oral 9	9:45 AM	2918	Protheroe	UNDERGRADUATE STUDENTS' PERCEPTIONS OF A PROBLEM-BASED LEARNING BIOMECHANICS MODULE
Wed	Oral 9	10:00 AM	2931	Knudson	LEARNING BIOMECHANICS: DEJA-VU ALL OVER AGAIN
Wed	Oral 10	9:00 AM	2694	Harrison	THE EFFECT OF FOOTWEAR FIT ON MOVEMENT COMPLEXITY IN TRAIL RUNNING
Wed	Oral 10	9:15 AM	2735	Zhang	ACUTE EFFECTS OF FOOTWEAR AND FOOTSTRIKE PATTERN ON ACHILLES TENDON LOADING DURING RUNNING
Wed	Oral 10	9:30 AM	2747	Fadillioglu	EFFECTS OF STACK HEIGHT ON RUNNING BIOMECHANICS DURING LEVEL, UPHILL, AND DOWNHILL RUNNING AT DIFFERENT SPEEDS
Wed	Oral 10	9:45 AM	2900	Knopp	INCREASED FOREFOOT ENERGY RETURN OF FOOTWEAR IMPROVES METABOLIC ENERGY EXPENDITURE
Wed	Oral 10	10:00 AM	2968	Baumann	EFFECT OF MIDSOLE THICKNESS ON RUNNING ECONOMY, COMFORT AND EFFORT IN WELL-TRAINED RUNNERS
Wed	Oral 11	9:00 AM	2764	Huang	THE EFFECT OF THE DIFFERENCE IN RESISTANCE TRAINING VELOCITY LOSS ON MUSCULAR STRENGTH AND EXPLOSIVE PERFORMANCE
Wed	Oral 11	9:15 AM	2811	Ahn	KNEE AND TRUNK COORDINATION PATTERNS IN THE SNATCH: A PILOT STUDY ON THE INFLUENCE OF LOAD AND PHASE
Wed	Oral 11	9:30 AM	2820	Sandau	DO FEMALE WEIGHTLIFTERS SNATCH DIFFERENTLY? ANALYSIS OF BARBELL KINEMATICS USING STATISTICAL PARAMETRIC MAPPING
Wed	Oral 11	9:45 AM	2832	Sihanath	INFLUENCE OF LEAN BODY MASS DISTRIBUTION ON GROUND REACTION FORCE AND SNATCH PERFORMANCE IN MALE AND FEMALE WEIGHTLIFTERS
Wed	Oral 11	10:00 AM	2846	Keerasomboon	CHARACTERISTICS OF HAMSTRING ELECTROMYOGRAPHIC ACTIVITY AND BREAK-POINT ANGLE DURING NORDIC HAMSTRING EXERCISE AT DIFFERENT ANKLE POSITIONS
Wed	Oral 12	9:00 AM	2777	Baby	VARIABILITY OF SAGITTAL JOINT KINEMATICS OF FEMALE HORSE-RIDERS OVER A JUMP.
Wed	Oral 12	9:15 AM	2945	Renwick	EVALUATING THE EFFECTIVENESS OF SPORTS BRAS DURING TREADMILL RUNNING THROUGH DISCRETE AND CONTINUOUS MEASURES OF BREAST KINEMATICS
Wed	Oral 12	9:30 AM	2967	Bentley	ACCELERATION DERIVED FROM INSTRUMENTED MOUTHGUARDS DURING HEADING IN WOMEN'S SOCCER WITH REGULAR AND 'LIGHT' SOCCER BALLS
Wed	Oral 12	9:45 AM	2976	Canty	THE EFFECT OF OPERATIONAL EQUIPMENT AND BRA TYPE INTERACTION ON BREAST BIOMECHANICS IN FEMALE POLICE OFFICERS
Wed	Oral 12	10:00 AM	2842	Ibrahim	THE EFFECT OF WIDE PREPARATORY STANCE ON DIVING SAVE PERFORMANCE IN FEMALE GOALKEEPERS

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Day	Session	Time	ID	Speaker	Title
Wed	Oral 13	4:00 PM	2718	Park	MACHINE LEARNING APPROACHES FOR IDENTIFICATION OF PARKINSON'S DISEASE SEVERITY USING MULTIMODAL FEATURES
Wed	Oral 13	4:15 PM	2734	Kim	MACHINE LEARNING APPROACH TO CLASSIFY DECLINE OF COGNITIVE AND MUSCLE FUNCTION IN OLDER WOMEN: GAIT CHARACTERISTICS BASED ON THREE SPEEDS
Wed	Oral 13	4:30 PM	2871	Mundt	DETERMINATION OF GAIT EVENTS FROM 2D VIDEO USING LONG SHORT-TERM MEMORY NEURAL NETWORKS
Wed	Oral 13	4:45 PM	2887	Lendt	GAIT EVENT DETECTION DURING WALKING USING DEEP LEARNING AND THIGH-WORN ACCELEROMETRY
Wed	Oral 13	5:00 PM	2994	David	ESTIMATION OF JOINT AND TENDON LOADING DURING RUNNING USING ARTIFICIAL IMU DATA AND UNSUPERVISED NEURAL NETWORKS
Wed	Oral 14	4:00 PM	2792	Vellucci	WHOLE-BODY COORDINATIVE STRATEGIES CONTRIBUTE TO THE MINIMIZATION OF CENTRE OF MASS DISPLACEMENT IN MAXIMAL VELOCITY SPRINTING
Wed	Oral 14	4:15 PM	2797	Herzog	ADAPTATION OF WALKING PATTERNS TO BILATERAL LOADED WALKING
Wed	Oral 14	4:30 PM	2954	Santana	EFFECTS OF FATIGUE AND DIFFERENT CRIMP SIZES ON MUSCLE SYNERGIES DURING DEAD HANGS: A PILOT STUDY ON CLIMBERS
Wed	Oral 14	4:45 PM	2977	Leigh	COURT LOCATION DOES NOT AFFECT FEMALE COLLEGIATE BASKETBALL PLAYERS' SHOOTING MOVEMENT PATTERN
Wed	Oral 14	5:00 PM	2768	Kühne	UNRAVELING KINEMATICS OF UNPLANNED CHANGE-OF-DIRECTION MANEUVERS: A FIELD-BASED EXPLORATION FOCUSED ON ACL INJURY RISK
Wed	Oral 15	4:00 PM	2766	Wang	EFFECTS OF HALF-MARATHON RUNNING ON QUADRICEPS AND HAMSTRING TORQUE
Wed	Oral 15	4:15 PM	2844	Jandacka	MAXIMAL INTERNAL KNEE ADDUCTION MOMENT IS NOT RELATED TO LATERAL CENTRAL FEMUR CARTILAGE STRUCTURE IN HEALTHY RUNNERS
Wed	Oral 15	4:30 PM	2858	Suo	EFFECTS OF HABITUAL FOOT STRIKE PATTERNS ON ANKLE MUSCLES ACTIVATION DURING RUNNING
Wed	Oral 15	4:45 PM	2863	Lu	ACUTE EFFECTS OF FOOT STRIKE PATTERN TRANSITION ON TRICEPS SURAE AND TIBIALIS ANTERIOR MUSCLE ACTIVITIES DURING RUNNING
Wed	Oral 15	5:00 PM	2946	Plesek	ANKLE KINEMATICS AND PLANTAR FASCIITIS IN RUNNERS: A ONE-YEAR PROSPECTIVE 4HAIE STUDY
Wed	Oral 16	4:00 PM	2742	Yang	REPORTING THE LOADING AND MOVEMENT PROFILES OF CHASSE-STEP AND ONE-STEP FOOTWORK IN TABLE TENNIS
Wed	Oral 16	4:15 PM	2763	Zhu	THE INFLUENCE OF LOWER LIMB MUSCLE PRE-ACTIVATION ON KNEE JOINT DYNAMIC CONTROL DURING A SINGLE-LEG LANDING TASK IN BADMINTON
Wed	Oral 16	4:30 PM	2890	Hollaus	HIT THE BALL - BUT HIT IT RIGHT: DETECTING THE GOLFBALL- CLUBFACE IMPACT LOCATION USING IMU DATA
Wed	Oral 16	4:45 PM	2942	Deghaies	INTER-INDIVIDUAL VARIABILITY IN KNEE KINEMATICS DURING THE TENNIS SERVE
Wed	Oral 16	5:00 PM	2952	Hiley	THE EFFECT OF UP AND DOWNHILL SLOPES ON TECHNIQUE AND PERFORMANCE IN GOLF

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Thu	Oral 17	9:00 AM	3007	Koelewijn	PREDICTING RUNNING MOVEMENTS FROM MOTOR CONTROL PRINCIPLES
Thu	Oral 17	9:18 AM	3008	Santuz	SYNERGISTIC CONTROL OF MUSCLE ACTIVITY DURING CHALLENGING LOCOMOTOR TASKS
Thu	Oral 17	9:36 AM	3009	Stetter	EFFECTS OF RUNNING SHOE STACK HEIGHT ON MOVEMENT VARIABILITY - A SHARED BIOMECHANICAL AND MOTOR CONTROL PERSPECTIVE
Thu	Oral 17	9:54 AM	3010	Federolf	HOW DOES THE NEUROMUSCULAR SYSTEM UTILIZE SENSORY FEEDBACK FOR THE CONTROL OF SKILLED MOVEMENTS IN SPORT? A PERSPECTIVE
Thu	Oral 18	9:00 AM	2693	Augustus	AGREEMENT BETWEEN A SMARTPHONE-BASED MARKERLESS MOTION CAPTURE APPLICATION (AISCOUT [®]) AND CONVENTIONAL ATHLETIC ASSESSMENT
Thu	Oral 18	9:15 AM	2824	Mendelson	MARKERLESS BIOMECHANICAL ANALYSIS OF FORMER ELITE RHYTHMIC GYMNASTS
Thu	Oral 18	9:30 AM	2885	Strutzenberger	RETURN TO SPORT TESTING IN FOOTBALL: IMPLEMENTING SPORTSPECIFICITY BY A MIXED REALITY APPLICATION
Thu	Oral 18	9:45 AM	2943	Verheul	MARKERLESS MOTION CAPTURE WITH OPENCAP FOR FIELD-BASED JUMP TESTING: A FORCE TO BE RECKONED WITH?
Thu	Oral 18	10:00 AM	2972	Cardinale	CONCURRENT VALIDITY AND RELIABILITY OF IN-LAB MARKERLESS MOTION CAPTURE IN ESTIMATING JOINT KINEMATICS IN BASEBALL PITCHING
Thu	Oral 19	9:00 AM	2802	Hipper	RUNNERS SACRIFICE ECONOMY FOR STABILITY AND TRAUMATIC INJURY PREVENTION WHEN FACED WITH SUDDEN, SLIP-LIKE PERTURBATIONS
Thu	Oral 19	9:15 AM	2816	Sanchez	ANALYSING GAIT TRANSITION DYNAMICS IN UPHILL TRAIL RUNNING FROM WEARABLE DEVICES
Thu	Oral 19	9:30 AM	2904	van Middelaar	RUNNERS FATIGUE EARLIER ON A TREADMILL VERSUS OVERGROUND: KINEMATIC EVALUATION OF A RUN-TO-EXHAUSTION
Thu	Oral 19	9:45 AM	2960	Skypala	IDENTIFICATION OF POTENTIAL BIOMECHANICAL RISK FACTORS FOR RUNNING OVERUSE INJURIES FROM A PROSPECTIVE 4HAIE STUDY – PILOT ANALYSES
Thu	Oral 19	10:00 AM	2979	Morgan	CLASSIFICATION OF HEALTHY LIMB LOADING DURING RUNNING IN POST ANTERIOR CRUCIATE LIGAMENT INDIVIDUALS
Thu	Oral 20	9:00 AM	2705	Fuss	PROFILING OF SPIN BOWLERS WITH BIOMECHANICAL PARAMETERS DERIVED FROM A SMART CRICKET BALL
Thu	Oral 20	9:15 AM	2853	Oliver	STRIDE STRATEGY ON FASTBALL PERFORMANCE IN COLLEGIATE BASEBALL PITCHERS
Thu	Oral 20	9:30 AM	2860	Goh	TRANSITION TO A HEAVIER BALL IN TEN-PIN BOWLING
Thu	Oral 20	9:45 AM	2999	Worsdale	PHYSICAL CHARACTERISTICS ASSOCIATED WITH LUMBAR BONE STRESS INJURY RELATED TECHNIQUE IN MALE FAST BOWLERS
Thu	WAA	10:45 AM	2925	Hashimoto	DISTAL JOINT KINETICS ARE ASSOCIATED WITH SHOT PUT PERFORMANCE

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Thu	Oral 21	11:15 AM	2774 Köykkä	ASSOCIATIONS BETWEEN STRENGTH AND POWER WITH THROWING PERFORMANCE IN HIGH LEVEL MALE AND FEMALE JAVELIN THROWERS
Thu	Oral 21	11:30 AM	2809 Kipp	VISUALIZING SEGMENTAL CONTRIBUTIONS TO WHOLE-BODY ANGULAR MOMENTUM IN THE ROTATIONAL SHOT PUT AND DISCUS THROW
Thu	Oral 21	11:45 AM	2913 Christensen	A KINEMATIC ANALYSIS OF SHOT PUTTERS AT A DIVISION I UNIVERSITY
Thu	Oral 21	12:00 PM	2948 Koehler	THE INFLUENCE OF DIFFERENT IMPLEMENTS ON KINEMATICS AND KINETICS COMPARED TO MENS JAVELIN THROW
Thu	Oral 21	12:15 PM	2814 Nagahara	PELVIC LIST STRENGTH AS AN INDICATOR OF SPRINT PERFORMANCE
Thu	Oral 22	11:15 AM	2769 Fuss	THE TIMING OF STOMPING (FUMIKOMI) IN KENDO ATTACKS: COMPARISON OF KYU AND DAN LEVEL KENDOKAS
Thu	Oral 22	11:30 AM	2819 Zedler	THE EFFECT OF TOUCHDOWN KINEMATICS ON FORWARD ACCELERATION IN THE SKELETON PUSH START
Thu	Oral 22	11:45 AM	2981 Sarro	A VECTOR CODING PERSPECTIVE ON BREATHING COORDINATION: TWO CYCLISTS' HANDLEBAR POSITIONS ANALYSIS
Thu	Oral 22	12:00 PM	2719 Holdback	MEASURING POLE FORCES IN SEATED SHOT PUT
Thu	Oral 22	12:15 PM	2821 Severin	THE EFFECTS OF RESTRICTING THORAX MOTION DURING FIXED-SEAT ERGOMETER ROWING
Thu	Oral 22	12:30 PM	2915 Janssen	COMPARISON BETWEEN OUTCOMES OF A SPRINT TEST ON A WHEELCHAIR ERGOMETER AND ON-COURT AMONG WHEELCHAIR TENNIS PLAYERS
Thu	Oral 23	11:15 AM	2957 Daniels	BODY ROTATION AFFECTS KNEE MECHANICS DURING SIDESTEP CUTTING... EVEN WHEN CONTROLLING FOR CHANGE OF DIRECTION ANGLE
Thu	Oral 23	11:30 AM	2750 Li	LATERAL STEP-DOWN IS MORE SENSITIVE TO LOWER LIMB MISALIGNMENT IN PATIENTS WITH PREPATELLAR PAIN THAN FORWARD STEP-DOWN
Thu	Oral 23	11:45 AM	2867 Bachmann	EXPLORING THE INFLUENCE OF FEMUR BONE ANATOMICAL VARIABILITY ON CAM MORPHOLOGY
Thu	Oral 23	12:00 PM	2911 Engler	LOWER LIMB JOINT WORK DURING COUNTERMOVEMENT JUMPS IN CHILDREN WITH CHARCOT-MARIE-TOOTH TYPE 1A
Thu	Oral 23	12:15 PM	2926 Hansen	ALTERATIONS IN MUSCLE SYNERGIES IN PATIENTS WITH KNEE OSTEOARTHRITIS DURING LEVEL- AND DOWNHILL WALKING
Thu	Oral 24	11:15 AM	2760 Yu	DIFFERENCES IN ANKLE MUSCLE CONTROL STRATEGIES BETWEEN SYMPTOMATIC AND ASYMPTOMATIC PRONATED FEET DURING RUNNING
Thu	Oral 24	11:30 AM	2897 Fassbender	REGIONAL MUSCLE ACTIVATION OF THE BICEPS FEMORIS
Thu	Oral 24	11:45 AM	2919 Wallbank	BICEP FEMORIS MUSCLE STATES PRIOR TO AND DURING A HAMSTRING STRAIN INJURY WHILST SPRINTING
Thu	Oral 24	12:00 PM	2965 Zauser	FATIGUE-INDUCED ECCENTRIC HAMSTRING WEAKNESS AS A POSSIBLE RISK FACTOR FOR HAMSTRING INJURY IN SOCCER PLAYERS
Thu	Oral 24	12:15 PM	2794 Neptune	DIFFERENCES IN MUSCLE DEMAND ACROSS TAKE-OFF TECHNIQUES IN THE BACK HANDSPRING STEP OUT IN WOMEN'S GYMNASTICS

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Fri	Oral 25	9:00 AM	2707	Honert	TARGETED CHANGES IN FOOTWEAR UPPER STRETCH IMPROVES RUNNING PERFORMANCE AND FOOTWEAR FIT
Fri	Oral 25	9:15 AM	2761	Fuchs	KINEMATICS AND KINETICS OF BAREFOOT, SHOD, AND SPIKED SPRINTING DURING ACCELERATION AND AT MAXIMUM SPEED
Fri	Oral 25	9:30 AM	2827	Paquette	“SUPER-SHOES” IN DISTANCE RUNNING: IS THERE A POSSIBLE DOWNSIDE IN TRAINED WOMEN?
Fri	Oral 25	9:45 AM	2929	Garcia-Lopez	INFLUENCE OF ADVANCED FOOTWEAR TECHNOLOGY ON PERFORMANCE AND BIOMECHANICS DURING MOUNTAIN RUNNING
Fri	Oral 25	10:00 AM	2982	Slijepcevic	INDIVIDUAL RESPONSES TO RUNNING SHOES: AN INVESTIGATION USING UNSUPERVISED MACHINE LEARNING
Fri	Oral 26	9:00 AM	2752	Haas	INTRA- AND INTER-SUBJECT VARIABILITY IN A REALISTIC, NON-STANDARDIZED EXERGAMING SCENARIO
Fri	Oral 26	9:15 AM	2850	Mokha	ASSOCIATION BETWEEN MORPHOLOGY AND HIP AND KNEE JOINT REACTION FORCES DURING RUNNING IN AMERICAN FOOTBALL PLAYERS: IMPLICATIONS FOR OSTEOARTHRITIS DEVELOPMENT
Fri	Oral 26	9:30 AM	2893	Masmoudi	A SYSTEM FOR AUTOMATIC AND FAST GYMNASTICS POSE ESTIMATION AND KEY FRAME IDENTIFICATION
Fri	Oral 26	9:45 AM	2916	Izri	THE INFLUENCE OF NOISE IN ANGULAR KINEMATICS ON THE TRANSFORMATION OF LINEAR ACCELERATION BETWEEN ACCELEROMETER COORDINATE FRAMES
Fri	Oral 26	10:00 AM	2964	Wallnöfer	TRICEPS SURAE MUSCLE FORCES DURING WALKING AND DANCING ACROSS VARIED FOOTWEAR
Fri	Oral 27	9:00 AM	2696	Schnack	INFLUENCE OF INERTIAL MEASUREMENT UNIT PLACEMENT ON KNEE FLEXION ANGLE MEASUREMENT DURING CYCLING
Fri	Oral 27	9:15 AM	2758	Chen	THE IMPACT OF CLASSICAL CHINESE DANCE ON THE GAIT OF THE ELDERLY – CROSS SECTIONAL STUDY
Fri	Oral 27	9:30 AM	2882	Gorges	IMU ACCELERATION DATA DIFFERS BETWEEN THE FRONT AND REAR FOOT IN SNOWBOARD FREESTYLE
Fri	Oral 27	9:45 AM	2971	Wilkins	EXPLORING THE ATTENUATION INTERACTION BETWEEN HORSE AND RIDER IN SITTING TROT USING INERTIAL MEASUREMENT UNITS
Fri	Oral 28	9:00 AM	2804	Eliaison	RELATIONSHIP BETWEEN KINEMATIC SEQUENCE CHARACTERISTICS, UPPER EXTREMITY JOINT WORK, AND FREE-THROW SHOOTING ACCURACY
Fri	Oral 28	9:15 AM	2822	Gilham	DIFFERENCES IN RUGBY PLACE KICKING TECHNIQUE AND PERFORMANCE BETWEEN YOUTH AND SENIOR PLAYERS
Fri	Oral 28	9:30 AM	2837	Inoue	USEFUL KICKING FOOT BEHAVIOR OF SOCCER INSTEP KICKING TO LAUNCH THE BALL IN VARIOUS DIRECTIONS
Fri	Oral 28	9:45 AM	2924	Atack	THE ENERGY TRANSFERRED BETWEEN LOWER-BODY SEGMENTS BY SUCCESSFUL AND LESS SUCCESSFUL MALE RUGBY PLACE KICKERS
Fri	Oral 28	10:00 AM	2995	litake	SEX DIFFERENCES IN SUPPORT LEG DYNAMICS IN SOCCER INSTEP KICKING

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Day	Session	Time	ID	Speaker	Title
Tue	Poster 1	11:30 AM	2700	Loovis	COMPARING POSTURAL CONTROL IN ADOLESCENTS (11-14 YEARS) INVOLVED/NOT INVOLVED IN AFTERSCHOOL SPORTS ACTIVITIES: A PILOT STUDY
Tue	Poster 1	11:32 AM	2724	Song	GAIT AND FOUL RISK DIFFERENCES BETWEEN TREADMILL AND OVERGROUND RACEWALKING
Tue	Poster 1	11:35 AM	2784	Johansen	ANALYSIS OF KINEMATICS DURING SPRINT RUNNING AND DIFFERENT TYPES OF JUMPS
Tue	Poster 1	11:37 AM	2848	Miramontes	ASSESSING THE RELATIONSHIP BETWEEN CONTRALATERAL LIMB SYNERGY AND ROCK-CLIMBING EFFICIENCY
Tue	Poster 1	11:40 AM	2852	Peach	OVERWEIGHT AND UNDERWEIGHT IMPLEMENTS' IMPACT ON CRITICAL FACTORS OF ROTATIONAL SHOT-PUTTING TECHNIQUE
Tue	Poster 1	11:42 AM	2951	van den Tillaar	COMPARISON OF SPRINT STRIDE KINEMATICS BETWEEN THREE DIFFERENT CARBON SPIKES – A CASE STUDY
Tue	Poster 1	11:45 AM	2978	Gohara	RELATIONSHIPS BETWEEN LOWER LIMB JOINT KINEMATICS AND VERTICAL STIFFNESS DURING THE 400-M SPRINT
Tue	Poster 1	11:47 AM	2986	Pratt	A PILOT STUDY ON ACUTE REACTIVE AGILITY TRAINING AND ITS INFLUENCE ON ACL INJURY RISK FACTORS IN COLLEGIATE ATHLETES
Tue	Poster 1	11:50 AM	2989	Dhamodharan	ESTIMATION OF ANTERIOR-POSTERIOR FORCE FROM VERTICAL GROUND REACTION FORCE IN COUNTERMOVEMENT JUMP TEST
Tue	Poster 1	11:52 AM	2992	Palaniyappan	INFLUENCE OF KINETIC FACTORS ON JAVELIN THROW PERFORMANCE
Tue	Poster 1	11:55 AM	2997	Tsutsumi	EFFECT OF CHANGING FOOT STRIKE PATTERN FROM REARFOOT TO FOREFOOT ON FOOT EXTERNAL EVERSION MOMENT
Tue	Poster 1	11:57 AM	2791	Geneau	WHERE AND WHEN: IDENTIFYING KEY REGIONS OF OVERGROUND SPRINT FOR HORIZONTAL FORCE-VELOCITY PROFILING
Tue	Poster 1	12:00 PM	2988	Marko	Biomechanics of Breathing with the Use of a Face Mask at Rest
Tue	Poster 1	12:02 PM	2877	Britton	AMATEUR BOXING COACHES PERCEPTIONS OF THE TECHNICAL COMPONENTS OF STRAIGHT PUNCHES
Tue	Poster 1	12:05 PM	2872	Kawaguchi	ANALYSIS OF GAZE BEHAVIOR AND ELECTROMYOGRAPHY DURING NIHON KENDO KATA
Tue	Poster 1	12:07 PM	2970	Naundorf	BIOMECHANICAL GUIDELINE VALUES TO SUPPORT GYMNASTS LEARNING OF HANDSPRING AND DOUBLE SALTO FORWARD TUCKED ON VAULT
Tue	Poster 1	12:10 PM	2736	Kong	PREPARATION FOR SPLIT LEAP IN RHYTHMIC GYMNASTICS – STATIC VERSUS DYNAMIC STRETCHING
Tue	Poster 1	12:12 PM	2905	Crolan	KINEMATIC AND MUSCULAR STRATEGIES OF THE LOWER BACK DURING BACKWARD SOMERSAULT LANDING IN GYMNASTICS

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Day	Session	Time	ID	Speaker	Title
Tue	Poster 2	11:30 AM	2695	Willwacher	THE IMPACT OF FRESH AND USED ANKLE TAPING ON LOWER EXTREMITY BIOMECHANICS DURING SPORTS SPECIFIC MOVEMENTS
Tue	Poster 2	11:32 AM	2703	Wong	EFFECTS OF DYNAMIC KNEE VALGUS ALIGNMENT ON GROUND REACTION FORCE AND KNEE MOMENT DURING LANDING
Tue	Poster 2	11:35 AM	2731	Hu	GENDER DIFFERENCES IN MUSCLE CONTRACTION AND CO-CONTRACTION ACTIVITIES DURING THE IMPACT PHASE OF SINGLE-LEG LANDING TASK IN BADMINTON
Tue	Poster 2	11:37 AM	2746	Ha	LANDING BIOMECHANICAL CHARACTERISTICS OF ADOLESCENT ATHLETES WITH ANTERIOR KNEE PAIN COMPARED TO HEALTHY CONTROLS
Tue	Poster 2	11:40 AM	2773	Rhodes	THE EFFECT OF SURFACES ON THE KNEE BIOMECHANICS OF A 90 DEGREE CUT
Tue	Poster 2	11:42 AM	2776	Wang	THE RELATIONSHIPS OF FUNCTIONAL MOBILITY WITH MUSCLE STRENGTH AND PROPRIOCEPTION AMONG OLDER ADULTS
Tue	Poster 2	11:45 AM	2831	Carlson	EXPLORING KNEE BIOMECHANICS IN DEFENSIVE SPORTS: A COMPARATIVE STUDY OF FORWARD AND BACKPEDAL SIDESTEP CUTS WITH AND WITHOUT A KNEE BRACE
Tue	Poster 2	11:47 AM	2866	Rolley	THE RELATIONSHIP BETWEEN NEUROCOGNITION AND SIDE-STEP CUTTING BIOMECHANICS IN WOMEN'S AUSTRALIAN FOOTBALL PLAYERS
Tue	Poster 2	11:50 AM	2874	Sharir	EXAMINING FATIGUE EFFECTS ON BIOMECHANICAL ACL INJURY RISK FACTORS IN FEMALE ATHLETES DURING SINGLE-LEG DROP VERTICAL JUMP
Tue	Poster 2	11:52 AM	2881	Frese	COMPARISON OF ISOKINETIC STRENGTH IN FEMALE VOLLEYBALL ATHLETES WITH AND WITHOUT KNEE PAIN
Tue	Poster 2	11:55 AM	2898	Sideris	FACTORS INFLUENCING SINGLE LEG VERTICAL JUMP PERFORMANCE IN ACLR PATIENTS
Tue	Poster 2	11:57 AM	2966	Yu	THE MUSCLE ACTIVATION AND LANDING KINEMATICS OF CAI ATHLETES IN SINGLE-LEG LANDING AND LATERAL JUMPS
Tue	Poster 2	12:00 PM	2987	Desroches	POWER OUTPUT IN SHORT VERSUS LONG DISTANCE MASTERS ATHLETES
Tue	Poster 2	12:02 PM	2727	Brunetti	ASSOCIATION BETWEEN JUMP PERFORMANCE AND ACL INJURY KINEMATIC RISK FACTORS
Tue	Poster 2	12:05 PM	2793	Shen	EFFECTS OF COMPREHENSIVE EXERCISE THERAPY ON KNEE JOINT FUNCTION AMONG OLDER ADULTS WITH KNEE OSTEOARTHRITIS

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Day	Session	Time	ID	Speaker	Title
Tue	Poster 3	11:30 AM	2720	Watanabe	RACKET HOLDING FORCES FOR PLAYING A FOREHAND STROKE AT VARIED SWING SPEEDS IN TABLE TENNIS
Tue	Poster 3	11:32 AM	2868	Bull	RELATIONSHIP BETWEEN PRE-DELIVERY STRIDE AND FAST BOWLING PERFORMANCE IN CRICKET
Tue	Poster 3	11:35 AM	2876	Zinno	SOFTBALL PLAYERS WITH SHOULDER INJURIES EXHIBIT UPPER-BODY COMPENSATORY STRATEGIES COMPARED TO HEALTHY CONTROLS: A WEARABLE INERTIAL SENSORS STUDY
Tue	Poster 3	11:37 AM	2956	Struzik	THE RELATIONSHIP BETWEEN FOOT POSITION IN THE TAKE-OFF PHASE AND THE HEIGHT OF THE JUMP SHOT IN BASKETBALL
Tue	Poster 3	11:40 AM	2958	Pan	THE GRIP PRESSURE ANALYSIS OF THREE BADMINTON FOREHAND OVERHEAD STROKES – A CASE STUDY
Tue	Poster 3	11:42 AM	2973	Pedro	UPPER LIMB MUSCLE ACTIVATION BETWEEN TWO DIFFERENT STANCES IN A TENNIS FOREHAND DRIVE: A PRELIMINARY STUDY
Tue	Poster 3	11:45 AM	2883	Bill	THIGH MUSCLE ACTIVITY IN EXPERIENCED FEMALE HANDBALL PLAYERS DURING PREPLANNED AND UNPLANNED SIDESTEP CUTS
Tue	Poster 3	11:47 AM	2805	Eliason	MARKERLESS MOTION CAPTURE AND OPTIMAL CONTROL TO INFORM PITCHING MECHANICS AND REDUCE INJURY RISK
Thu	Poster 3	11:50 AM	3000	Chen	THE RELATIONSHIP BETWEEN PEAK ACCELERATION OF BAT AND HAND PAIN IN BASEBALL PLAYERS DURING BASEBALL HITTING
Tue	Poster 3	11:52 AM	2862	Arakaki	PUNT KICK MOTION FOR RUGBY PLAYERS WITH DIFFERENT KICKING SKILLS
Tue	Poster 3	11:55 AM	2733	Feng	OPEN-SOURCE ARDUINO-BASED IOT IMU SENSOR PROTOTYPING FRAMEWORK FOR BIOMECHANISTS
Tue	Poster 3	11:57 AM	2806	Pereira	EFFECT OF FATIGUE ON TRUNK- AND HIP-KNEE COORDINATION DURING SIDESTEP CUTTING MANEUVER IN HANDBALL ATHLETES
Tue	Poster 3	12:00 PM	2813	Hou	A SIMPLE JUMPING LANDING STABILITY ERRORS SYSTEM TO DIFFERENTIATE AND DIAGNOSE CHRONIC ANKLE INSTABILITY
Tue	Poster 3	12:02 PM	2955	Gómez-Landero	ANALYSIS OF PROACTIVE, STATIC AND DYNAMIC UNIPEDAL BALANCE IN YOUNG GYMNASTS DURING ADOLESCENCE
Tue	Poster 3	12:05 PM	2799	Janssen	JUMPING AND NON-JUMPING ATHLETES LAND DIFFERENTLY: IMPLICATIONS FOR RETURN TO SPORT

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Day	Session	Time	ID	Speaker	Title
Tue	Poster 4	11:30 AM	2889	Ebbecke	KNEE JOINT MOMENTS DURING SPORTIVE CYCLING: A PILOT STUDY
Tue	Poster 4	11:32 AM	2928	Herrero-Molleda	SADDLE PERCEIVED COMFORT OF COMPETITIVE WOMEN ROAD CYCLISTS
Tue	Poster 4	11:35 AM	2722	Yang	STUDY ON THE INFLUENCE OF MIDSOLE HARDNESS AND SURFACE TYPE ON LOADING RATE IN HEEL-STRIKE RUNNERS
Tue	Poster 4	11:37 AM	2855	Teng	KINEMATIC COMPARISON OF OPENCAP AND IMU WITH MARKER-BASED MOTION CAPTURE IN TREADMILL RUNNING: A PILOT STUDY
Tue	Poster 4	11:40 AM	2936	Seeger	The development of an IMU based measurement system for the determination of the subtalar joint axis
Tue	Poster 4	11:42 AM	2836	Osterwald	EFFECTS OF EXTENDED REALITY ON BIOMECHANICS AND REHABILITATION IN THE CONTEXT OF ACL INJURIES: A COMPREHENSIVE REVIEW
Tue	Poster 4	11:45 AM	2950	Ferlinghetti	VIDEO SKELETONIZATION AND AI: A NOVEL APPROACH FOR ANALYZING KINEMATICS IN TABLE TENNIS
Tue	Poster 4	11:47 AM	2721	Bačić	JY61 IMU SENSOR EXTERNAL VALIDITY: A FRAMEWORK FOR ADVANCED PEDOMETER ALGORITHM PERSONALISATION
Tue	Poster 4	11:50 AM	2895	Djafari	SEGMENTED EVALUATION OF CENTER OF MASS PATTERN SMOOTHNESS THROUGHOUT STEP AEROBICS TRAINING AS A MEASURE OF TRAINABILITY
Tue	Poster 4	11:52 AM	2896	Friedl	IMU JERK GRAB DETECTION IN SNOWBOARD FREESTYLE
Tue	Poster 4	11:55 AM	2899	Alkhalaf	CAN IMUS ACCURATELY DETECT DIFFERENCES IN DYNAMIC CONSTRAINT-GOVERNED TASKS? APPLICATION TO THE LAYUP SHOT IN BASKETBALL
Tue	Poster 4	11:57 AM	2917	Vohlakari	USING PARTICIPANT DESCRIPTIVE CHARACTERISTICS, HEART RATE AND INERTIAL SENSORS TO ESTIMATE RUNNING ECONOMY
Tue	Poster 4	12:00 PM	2930	De Lazzari	STANDING LONG JUMP POWER ESTIMATION FROM SMARTPHONE IMUS
Tue	Poster 4	12:02 PM	2938	Schütz	SENSOR-DRIVEN ANALYSIS OF ANGLE OF ATTACK IN ALPINE SKIING: A LABORATORY EXPLORATION
Tue	Poster 4	12:05 PM	2974	Azam	COMPRESSION ENGINEERING OF SPORTS GARMENTS USING ATHLETES' ANTHROPOMETRIC DATA/3D SCANNING TECHNOLOGIES

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Day	Session	Time	ID	Speaker	Title
Wed	Poster 5	11:30 AM	2762	Li	ANALYSIS OF MEN'S PROFESSIONAL TENNIS SINGLES MATCH DATA AND STRATEGIES - A CASE STUDY OF 2022 AND 2023 ATP YEAR-END FINALS
Wed	Poster 5	11:32 AM	3013	Hamaguchi	BIOMECHANICAL ANALYSIS OF JUDOKAS` THROWING TECHNIQUES: FOCUS ON THE PREPARATION PHASE
Wed	Poster 5	11:35 AM	2892	Bae	THE DIFFERENCE IN VISUAL SEARCH STRATEGIES BETWEEN EXPERT AND NOVICE INSTRUCTOR IN EXERCISE MOVEMENT ASSESSMENT
Wed	Poster 5	11:37 AM	2808	Hsieh	TWENTY-YEAR TRENDS IN STUDENT READINESS, PERFORMANCE, AND LEARNING IN BIOMECHANICS
Wed	Poster 5	11:40 AM	2901	Kao	THE GRIP DISTRIBUTION ANALYSIS BETWEEN BADMINTON SMASH AND JUMP SMASH
Wed	Poster 5	11:42 AM	2845	Mei	APPLYING DOSE-RESPONSE ANALYSIS IN SPORT BIOMECHANICS: AN EXAMPLE OF BADMINTON FOOTWORK AND FOOTWEAR
Wed	Poster 5	11:45 AM	3004	Ramasamy	INTRA-INDIVIDUAL VARIATION IN THE JUMP SMASH FOR 19 MALAYSIAN ELITE BADMINTON PLAYERS
Wed	Poster 5	11:47 AM	3006	Walsh	KINEMATIC SEQUENCING OF THE SHORT GAME SWING IN MALE COLLEGIATE GOLFERS
Wed	Poster 5	11:50 AM	2800	Lee	SHOULDER-ELBOW COORDINATION PATTERN DURING BADMINTON FOREHAND DRIVE IN TRAINED AND UNTRAINED PEOPLE
Wed	Poster 5	11:52 AM	2818	Nasirzadeh	POWER UP THE SWING: A BIOMECHANICAL STUDY TOWARDS A GOLF EXOSUIT
Wed	Poster 5	11:55 AM	2828	Jamkrajang	EXAMINING THE SEQUENCING OF JOINT VELOCITIES DURING TENNIS SERVES
Wed	Poster 5	11:57 AM	2770	Pitto	REAL-TIME BIOFEEDBACK TO CONTROL TRUNK POWER PRODUCTION IN ERGOMETER ROWING
Wed	Poster 5	12:00 PM	2833	Patterson	LOAD-VELOCITY BEHAVIOR DURING THE FIRST AND SECOND PULL OF THE SNATCH AND CLEAN
Wed	Poster 5	12:02 PM	2856	Geiser	COUNTERMOVEMENT JUMP PERFORMANCE VARIABLES CORRELATE WITH WEIGHTLIFTING PERFORMANCE IN ELITE PARTICIPANTS
Wed	Poster 5	12:05 PM	2857	Palamarcukas	INFLUENCE OF EXTERNAL LOAD AND ECCENTRIC PHASE DURATION ON FORCE PRODUCTION IN THE REAR FOOT-ELEVATED SPLIT SQUAT
Wed	Poster 5	12:07 PM	2880	Hamamichi	EFFECT OF RESISTED SLED SPRINT TRAINING ON SPRINTING ABILITIES OF JUNIOR HIGH SCHOOL STUDENTS
Wed	Poster 5	12:10 PM	2903	Lin	COMPARING WORK AND RATE OF FORCE DEVELOPMENT DURING PROPULSIVE PHASE AS PILOT STUDY IN EXPLOSIVE MOVEMENTS

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Day	Session	Time	ID	Speaker	Title
Wed	Poster 6	11:30 AM	2717	Ozeki	CHARACTERISTICS OF TURN PERFORMANCE IN ELITE BREASTSTROKE SWIMMERS
Wed	Poster 6	11:32 AM	2810	Li	AUTOMATED ROWER ASSIGNMENT TO ROWING EVENTS: A MACHINE LEARNING APPROACH
Wed	Poster 6	11:35 AM	2815	Wang	THE CORRELATION BETWEEN LUMBOPELVIC CONTROL AND PITCHING VELOCITY IN BASEBALL PITCHERS
Wed	Poster 6	11:37 AM	2835	Felton	THE EFFECT OF INCREASING ISOMETRIC STRENGTH ON TECHNIQUE DURING THE FRONT FOOT CONTACT PHASE IN ELITE CRICKET FAST BOWLERS
Wed	Poster 6	11:40 AM	2854	Laucha	COMPARISONS OF GROUND REACTION FORCES BETWEEN TWO DIFFERENT 180-DEGREE TURNING TECHNIQUES IN FEMALE CRICKETERS
Wed	Poster 6	11:42 AM	2865	Kawabata	BODY INCLINATION AND MOTION VARIATION OF BODY SEGMENTS IN THE TRIPLE PIROUETTE FOR SKILLED FEMALE DANCERS
Wed	Poster 6	11:45 AM	2888	Goldmann	FOREFOOT BENDING STIFFNESS IN THE BOBSLEIGH PUSH-START
Wed	Poster 6	11:47 AM	2902	Chun	INTER-LIMB COORDINATION ACCORDING TO THE USE OF FOOTSTRAP DURING PUMPING IN WINDSURFER: A SINGLE SUBJECT PILOT STUDY
Wed	Poster 6	11:50 AM	2921	Kim	COMPARISONS OF HEAD IMPACTS BETWEEN KOREAN YOUTH ATHLETES AND NON-ATHLETES IN SOCCER HEADINGS
Wed	Poster 6	11:52 AM	2947	Wicke	DYNAMIC VERSUS SELF-PROPRIOCEPTIVE NEUROMUSCULAR FACILITATION STRETCHING ON VERTICAL JUMP PERFORMANCE
Wed	Poster 6	11:55 AM	2689	Lozowski	AN ACCURACY-INTEGRATED METRIC FOR EVALUATING THROWING PERFORMANCE
Wed	Poster 6	11:57 AM	2839	Soltani	MASTERFUL DEFENSE VS. ROOKIE FUMBLES: HOW DO EXPERT AIR HOCKEY CHAMPS ON MOBILE REVEAL THEIR SKILLS THROUGH POSTURE AND TOUCH?
Wed	Poster 6	12:00 PM	2738	Yu	EFFECT OF ENHANCED ABDUCTOR HALLUCIS CONTRACTION ON FOOT BIOMECHANICS IN GAIT
Wed	Poster 6	12:02 PM	2941	Harrison	THE SEXES EXHIBITED SIMILAR PATTERNS OF UPPER TRAPEZIUS EXCITATION DISTRIBUTION AT REST AND WITH FATIGUE DURING REPEATED ARM ELEVATION
Wed	Poster 6	12:05 PM	2963	Franklin	MUSCLE STIFFNESS, LENGTH AND RANGE OF MOTION ARE UNCHANGED IN MALES AND FEMALES IN RESPONSE TO AN ACUTE BOUT OF STATIC PECTORAL STRETCHING
Wed	Poster 6	12:07 PM	2923	Carlson	PREDICTIVE MODELING OF KNEE ANTERIOR SHEAR FORCES USING INERTIAL MEASUREMENT UNIT DATA AND MACHINE LEARNING

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Day	Session	Time	ID	Speaker	Title
Wed	Poster 7	11:30 AM	2711	Yu	DIFFERENCES IN INTRA-FOOT MOVEMENT STRATEGIES DURING THE CUTTING TASK AMONG CAI, COPERS, AND HEALTHY INDIVIDUALS
Wed	Poster 7	11:32 AM	2714	Burnie	THE INFLUENCE OF BODYWEIGHT ON SPATIOTEMPORAL PARAMETERS DURING WALKING ON THE ALTERG TREADMILL
Wed	Poster 7	11:35 AM	2739	Choi	POSSIBILITY OF EARLY DETECTION OF PARKINSON'S DISEASE USING CONVOLUTIONAL NEURAL NETWORK DURING SIX-MINUTE WALK TEST
Wed	Poster 7	11:37 AM	2823	Schwenk	AI-BASED MARKERLESS SINGLE-CAMERA MOTION ANALYSIS FOR ESTIMATING KNEE AND HIP JOINT KINEMATICS DURING GAIT
Wed	Poster 7	11:40 AM	2843	Loh	TWO-DIMENSIONAL KINEMATICS DIFFERENCES BETWEEN SEXES IN RUNNERS WITH AND WITHOUT PATELLOFEMORAL PAIN
Wed	Poster 7	11:42 AM	2861	Liang	SEX DIFFERENCES IN PROPRIOCEPTION AND BALANCE CONTROL IN INDIVIDUALS WITH CHRONIC ANKLE INSTABILITY
Wed	Poster 7	11:45 AM	2909	Teng	PLANTAR PRESSURE DIFFERENCES BETWEEN LOW-RISK AND HIGH-RISK KNEE OSTEOARTHRITIS RUNNERS: A PRELIMINARY STUDY
Wed	Poster 7	11:47 AM	2914	Mancuso	TECHNICAL EVALUATION OF THE FIDELITY OF THE HTC VIVE FOR UPPER LIMB TRACKING
Wed	Poster 7	11:50 AM	3005	Pennekamp	COMPARISON OF WRIST ANGLES BETWEEN TWO ESTABLISHED BIOMECHANICAL MODELS
Wed	Poster 7	11:52 AM	2737	Kaneda	PATTERN MATCHING ANALYSIS OF LOWER-LIMB GAIT MOTION IN WATER AND ON LAND AND ITS RELATIONSHIP TO JOINT MOTION
Wed	Poster 7	11:55 AM	2851	Moriyama	ASSISTED TOWING DOES NOT AFFECT ARM STROKE COORDINATION IN FRONT-CRAWL SWIMMING
Wed	Poster 7	11:57 AM	2891	Suito	KINEMATICS OF THE SCISSORS KICK IN THE BREASTSTROKE
Wed	Poster 7	12:00 PM	2959	Gil Calvo	EFFECTS OF SHORT VS. LONG WARM-UP PROTOCOLS ON BIOMECHANICS AND PERFORMANCE IN A 50- M SWIMMING TRIAL
Wed	Poster 7	12:02 PM	2991	Yamakawa	FATIGUE-RELATED CHANGES OF MUSCLE COORDINATION DURING A MAXIMAL 100-M BUTTERFLY STROKE SWIMMING: A CASE STUDY
Wed	Poster 7	12:05 PM	2796	Thelen	IN-FIELD BIOMECHANICS OF HALFPIPE SNOWBOARDING: A PILOT STUDY
Wed	Poster 7	12:07 PM	2859	Nakazato	EFFECT OF ALPINE SKI BOOTS ON LOWER LIMB MOVEMENT DURING JUMPING
Wed	Poster 7	12:10 PM	2993	Ortiz	NEUROMUSCULAR FUNCTION DURING MAXIMUM INTENSITY SIDESTEP-CUTTING MANOEUVRE: EXPLORING THE INFLUENCE OF ANTICIPATION AND PRIOR ACL INJURY

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Day	Session	Time	ID	Speaker	Title
Wed	Poster 8	11:30 AM	2787	Bill	THE FOOT STRIKE ANGLE PREDICTS THREE-DIMENSIONAL KNEE JOINT MOMENTS IN PREPLANNED AND UNPLANNED SIDESTEP CUTS
Wed	Poster 8	11:32 AM	2710	Roel Ferreira	LANDING KINEMATICS AND MUSCLE ACTIVITY IN RUN-ON AND TWO-FOOT LANDINGS BETWEEN ATTACKING AND DEFENSIVE NETBALL PLAYERS
Wed	Poster 8	11:35 AM	2785	Bagehorn	IMPACT OF FOOTWEAR BENDING STIFFNESS AND TORSIONAL STIFFNESS ON ANKLE BIOMECHANICS DURING HANDBALL SPECIFIC FAKE-AND-CUT MANOEUVRES
Wed	Poster 8	11:37 AM	2756	Epp-Stobbe	WORK SMARTER NOT HARDER: MECHANICAL WORK AS A MEASURE OF ATHLETE WORKLOAD
Wed	Poster 8	11:40 AM	2789	Barioudi	AN EMG PREPROCESSING PIPELINE AND A GUI FOR PARALYMPIC CROSS-COUNTRY SKIING SITTING POSITION ASSESSMENT
Wed	Poster 8	11:42 AM	2744	Algourdin	EFFECTS OF FREEDIVING FIN PARAMETERS ON ANKLE STRESS USING 3DIVE (FREE DIVING VALGUS EXPERIMENT) RIG
Wed	Poster 8	11:45 AM	2754	Slopecki	THE IMPACT OF LIMB SYMMETRY ON STROKE-TO-STROKE MOVEMENT VARIABILITY IN PARA-SWIMMERS DURING AN ADAPTED AEROBIC STEP TEST
Wed	Poster 8	11:47 AM	2847	Huang	ASSOCIATION BETWEEN BIOMECHANICAL CRITICAL SPEED AND THE SPEED AT ANAEROBIC THRESHOLD
Wed	Poster 8	11:50 AM	2869	Peach	TIBIAL LOAD IN RUNNERS WITH A HISTORY OF BONE STRESS INJURY: A CASE CONTROL STUDY
Wed	Poster 8	11:52 AM	2870	Nakatsugawa	GENDER DIFFERENCES IN INTER-SEGMENT FOOT KINETICS DURING RUNNING
Wed	Poster 8	11:55 AM	2910	Hsu	GENDER EFFECT ON TORQUE AND EXPLOSIVE CHARACTERISTICS AT KNEE EXTENSOR IN TRIATHLETES WITH HIGH AND LOW EATING ATTITUDES
Wed	Poster 8	11:57 AM	2935	Arena	CHANGES IN TOTAL AND PERCENT DISTRIBUTION OF JOINT POWER IN DISTANCE RUNNERS OVER A COMPETITIVE SEASON
Wed	Poster 8	12:00 PM	2980	Cantusio	TRUNK RESISTANCE DURING SINGLE LEG JUMPS IMPROVES TRUNK MOVEMENT IN COLLEGE ATHLETES WITH POOR MOVEMENT QUALITY
Wed	Poster 8	12:02 PM	2775	Tominaga	SPEED-DEPENDENT INCREASE IN LUMBAR LORDOSIS IS INCONSISTENT WITH SPEED-INDEPENDENT PELVIC TILT DURING TREADMILL RUNNING
Wed	Poster 8	12:05 PM	2751	Allen	THE INFLUENCE OF STATURE ON HUMAN VERTICAL JUMPING PERFORMANCE
Wed	Poster 8	12:07 PM	2998	Gonçalves	IMPACT OF FEMORAL MORPHOLOGY ON MUSCLE FORCES AND JOINT LOADS DURING HIGH-LOAD SQUATS IN ELITE POWERLIFTERS - A PRELIMINARY INVESTIGATION
Wed	Poster 8	12:10 PM	3002	Di Pietro	BIOMECHANICAL ANALYSIS OF THE BURPEE PUSH-UP USING PREDICTED GROUND REACTION FORCES
Wed	Poster 8	12:12 PM	3003	Centrone	MUSCULOSKELETAL ANALYSIS OF TWO BASIC LATIN AMERICAN STEPS