2025 (사)한국운동역학회 국제학술대회

Title: The Future of Human Performance :

Bio-Integrated and Data-Driven Health sciences

■ **일시** : 2025년 11월 21 - 22일, 금요일, 토요일

■ **장소** : 동아대학교 승학캠퍼스(청촌홀, 정산홀 3, 4호)

■ **행사 일정표**

- 11월 21일(금) : 동아대학교 승학캠퍼스 인문과학대학 1층 청촌홀

시간	동아대학교 승학캠퍼스 인문과학대학 1층 청촌홀		비고
12:00-13:00	**접수 및 등록(1층 접수처)**		
13:00-13:10	Opening Ceremony		기업전시 ㈜시드테크
	- **개회사** : 한국운동역학회 **윤석훈** 회장 - **환영사** : 동아대학교 **이해우** 총장 - **축 사** : 동아대학교 RISE 사업 추진단 **이 진** 단장	사회자 총무이사 류시현 (한체대)	
	Invited Speaker Session Ⅰ		
13:10-13:50	Professor. Jang Young Charles Biomedical Engineering, Emory University, USA **Physiology and Biomechanics of Aging through the Lens of Medicine 3.0**	**좌장:** 김대규 (고려대)	
13:50-14:30	Professor. Bum Jaewon Seoul National University Bundang Hospital, Department of Rehabilitation Medicine. **Recent Trends in the Assessment and Management of Sarcopenia and Frailty**		
14:30-14:40	Coffee break		
	Invited Speaker Session Ⅱ		
14:40-15:20	Professor. Park Song-Young Health, and Human Sciences., University of Nebraska at Omaha, USA **Vascular Physiology and Biomechanics in Prolonged Sitting:** **Impacts of the COVID-19 Pandemic**	**좌장:** 김대규 (고려대)	
15:20-16:00	Professor. Kawakami Yasuo Biomechanics and exercise physiology, Waseda University, Japan **Unveil & Upgrade Human Performance:An approach from sport science, engineering, medicine, education and industry**		
16:00-16:10	Coffee break		
	Invited Speaker Session Ⅲ		
16:10-16:50	Professor. Chaipat Lawsirirat Faculty of Sports Science, Chulalongkorn University, Thailand **Beyond Tracking: Sensor-Rich, Data-Driven Wearables for an Active Lifespan from Childhood to Healthy Longevity**	**좌장:** 이효근 (광운대)	
16:50-17:30	Professor. Kang Nyeonju Department of Sports Science, Incheon National University, Korea **Neuromechanics in Exercise Science: Looking Back and Looking Forward**		
17:30-17:35	Official Group Photo Session		
17:35-	Welcome Reception		

- 11월 22일(토) : 동아대학교 승학캠퍼스 예술체육대학 2층 정산홀 3, 4호

※ 점심 식사 장소: 예술체육대학 정산홀 3, 4호, 302-1호, 305호

시간	예술체육대학 2층 정산홀 3호		예술체육대학 2층 정산홀 4호		비고
09:00-10:00	접수 및 등록(2층 접수처)				기업전시 ㈜시드테크
	Oral Presentation Ⅰ				
10:00-10:15	좌장 박종철 (부경대)	김현지(부산외대) Dynamic Neuromuscular Stabilization for Middle-ed Women With Frozen Shoulder: Clinical Effects on pain and Cop	좌장 김주년 (한국스포츠과학원)	추문정(부산외대) The Effects of Walking Exercise Using Water Inertial Load on Dynamic Balance Ability and Pain in Older Women Knee Osteoarthritis: A Randomized Clinical Trial	
10:15-10:30		안하영(부산외대) The Effects of Dynamic Stability Training with Inertial Load of Water on Dynamic Balance and Pain in Middle-aged Women with Chronic Low Back Pain		백승윤(서울대) Effect of Persistent Inward Currents on Knee Joint Torque Release Phase with Speed Difference	
10:30-10:45		서정빈(한체대) Effects of Individualized Modification Strategy Using Foot Progression Angle on Dynamic Stability and Fall Risk Factors During Walking		최윤석(서울대) Changes in Muscle Oxygenation and Activity During Fatigue Accumulation	
10:45-11:00	Coffee break				
	Oral Presentation Ⅱ				
11:00-11:15	좌장 한기훈 (부산대)	김서환(한체대) Effects of Duty Factor Modulation on Biomechanical Variables during Running	좌장 박일봉 (부산외대)	최혜진(동아대) CNN-based classification of early-stage Parkinson's disease using multi-segment wearable sensor data from the six-minute walk test	
11:15-11:30		이주성(데상트코리아) The effect of changes in toe-spring angle and midsole material of advanced footwear technology on running mechanics and running efficiency		박재호(서울대) Anticipatory synergy modulation during frequency transitions in cyclic force production under isometric conditions	
11:30-11:45		황예은(한체대) 태권도 품새의 몸돌아 옆차기 시 운동역학적 요인이 전문가 평가에 미치는 영향		이명곤(서울대) Dual-task Upper Frailty Meter Assessment as a Digital Biomarker of Concern About Falling	
11:45-12:00		김나영(한체대) 여자 하키 선수 스쿱 동작의 운동역학적 비교분석		김경화(부경대) 연속 웨이블릿 변환을 활용한 드롭랜딩 점프 시 근육의 공동활성화 패턴 식별 연구	
12:00-13:00	Lunch break (예술체육대학 강의실) 편집위원회 (강의실 204호)				
13:00-13:40	연구윤리 강화교육				
	강의실 302-1호 (중견)		강의실 305호 (신진)		
13:40-14:40	Poster Section (청춘홀)				
14:40-15:00	Coffee break				
	Oral Presentation Ⅲ				
15:00-15:15	좌장 길호종 (한체대)	김주영(한체대) 리듬체조 기초 보강 운동에 따른 포에폐 턴 동작의 운동역학적 비교 분석	좌장 김종빈 (신라대)	김현수(서울대) Decoupling between normal and tangential forces at the level of control during tangential finger force production in isometric conditions	
15:15-15:30		안빅토르(한체대) 6주간의 코어훈련이 쇼트트랙 스피드 스케이팅 선수의 코너링 동작에 미치는 영향		박다원(서울대) Exploring Movement Control Strategies in Ballet Performance: Effect of Music on Artistic Expression exploring	
15:30-15:45	Coffee break				
15:45	정기총회(정산홀 3호)				
16:30	Closing Ceremony 단체 사진 촬영				

13:40-14:40	P1. Session: Poster Presentation		청촌홀 (포스터 발표장)
Paper No.	Paper Title	Authors	Affiliation
P1	Machine Learning for Parkinson's Disease Detection Using Smartwatch-Based Data in Brief Seated Tasks	Eun-Bin Choi[1], Ye-Rim Kim[1], Yong-Sang Kwak[1], Do-Yeon Choi[1], Hyo-Keun Lee[1*]	*KwangWoon University, Seoul, Korea*
P2	Machine learning-based classification of early-stage Parkinson's disease using biomechanical features of the sit-to-walk task	Minsoo Kim[1,2] Changhong Youm[1,2*], Juseon Hwang[1,2], Daehan Won[2], Seoyoung Jang[2]	*[1] Biomechanics laboratory, Dong-A University, Busan, Korea [2] Department of Health Sciences, The Graduate School of Dong-A University, Busan, Korea*
P3	Predicting Health-Related Quality of Life in Parkinson's Disease Using Sensor-Based Gait Analysis	Juseon Hwang[1,2] Changhong Youm[1,2*], Minsoo Kim[1,2], Daehan Won,[2], Seoyoung Jang[2]	*[1]Biomechanics laboratory, Dong-A University, Busan, Korea [2]Department of Health Sciences, The Graduate School of Dong-A University, Busan, Korea*
P4	기능적 전기자극 패드 위치 변화에 따른 하지근육의 반응 비교	박예원[1], 장창호[1], 심힘찬[1], 김명철[2], 박준성[1], 김종빈[1*]	*[1]SILLA University, Busan, Korea, [2]COREMOVEMENT CO., LTD, Korea*
P5	경기력 수준에 따른 복싱 뒷손 스트레이트 펀치 동작의 운동역학적 변인 차이	Dool-Hee Lee[1]	*[1]Chosun University, Gwang-ju, Korea*
P6	Design and Development of an AI-Based Camera System for Grading Obstacle Walking Performance in the Elderly	Wan-Ki Hong[1*], Kyung-Sik Seo[2]	*[1]Chosun University, GwongJu, Korea [2]CONECT 3R Inc. GwongJu, Korea*
P7	크로스컨트리 스키 활주 시 AI 기반 동작분석 신뢰도 검증	박지호[1], 김정원[1], 김주년[1*]	*[1]한국스포츠과학원*
P8	Asymmetry of Resultant Ground Reaction Forces during Slideboard Skating	Geon-Tak Kim[1], Song-Min Lee, Ji-In Kim[1], Beom-Soo Kim[1], Soo-Jin Park[1], Du-Hyun Kim[1], Rye Kyeong Kim[1], Sangheon Park[1]*	*[1]Korea Institute of Sport Science, Seoul, Korea*

P9	반복적 힐-드롭 운동 중 아킬레스건 기계학적 특성의 시간적 변화: 사전 분석 결과	이정석[1,3], 이해동[2,3*]	*[1]Department of Physical Education, Graduate School of Yonsei University, Seoul, Korea; [2]Department of Physical Education, College of Educational Sciences, Yonsei University, Seoul, Korea; [3]Frontier Research Institute of Convergence Sports Science, College of Educational Sciences, Yonsei University, Seoul, Korea*
P10	착지 시 지면 높이 교란에 대한 예상 여부가 하지 관절의 근신경 역학적 반응에 미치는 영향: 파일럿 연구	최예은[1,3], 조윤형[1,3], 노희연[1,3], 이해동[2,3*]	*[1]Department of Physical Education, Graduate School of Yonsei University, Seoul, Korea; [2]Department of Physical Education, College of Educational Sciences, Yonsei University, Seoul, Korea; [3]Frontier Research Institute of Convergence Sports Science, College of Educational Sciences, Yonsei University, Seoul, Korea*
P11	Wavelet-based explainable convolutional neural network analysis of surface electromyography during sit-to-walk for detecting Parkinson’s disease	Hwayoung Park[1], Changhong Youm[1,2*], Bohyun Kim[1], HyejinChoi[1]	*[1]Biomechanics laboratory, Dong-A University, Busan, Korea [2]Department of Health Sciences, The Graduate School of Dong-A University, Busan, Korea*