

ARIHHP SCHOLARLY ACTIVITIES 2025

- ◆ Research Articles: 218
- ◆ Books : 13
- ◆ Awards : 16

A. *Kokoro* Division

Research Articles

Anazawa S, Makibuchi T, Hagino Y, Edama M, Fujimoto T, Ochi G, Sato D, Yamashiro K. The effect of sex differences on long-latency of auditory and somatosensory evoked potentials. *Women's Health Reports*, 7, 183-193, 2026.

Dobashi S, Takahashi S, Yamaguchi T, Tachibana Y, Kasahara R, Takamizawa R, Matsui T. Joint Pupillometry and Heart Rate Monitoring Identify Zone-Like High Performance in Esports. *bioRxiv*, 2026.

Inoue K, Okamoto M, Fukuie T, Soya H, Yamaguchi A. Memory persistence enhancement by post-learning moderate exercise requires de novo protein synthesis in the dorsal hippocampus. *PLOS one*, 20(7), e0328128, 2025.

Kojima T, Cho K, Kokubu M. Fixating on a laser-projected point at a constant distance suppresses periodic eye movements and impairs balance control during cycling. *Experimental Brain Research*, 243, 190, 2025.

Kojima T, Kokubu M. The effect of instructions regarding gaze direction on stability of movements and accuracy of trajectory control during cycling. *Experimental Brain Research*, 244, 21, 2026.

Kojima T, Cho K, Kokubu M. The practice effect of novel bicycle through a straight and narrow path on coordination and stability in movements. *International Journal of Sport and Exercise Psychology*, 1-15, 2025.

Kokubu M, Shojima K, Kikumasa S, Oki Y, Mieda T. Gaze behavior and decision-making in simulated defensive situations for baseball fielders using a head-mounted display. *Asian Journal of Sport and Exercise Psychology*, 5(3), 107-116, 2025.

Kuwamizu R. Can AI serve as a bridge between laboratory and real-world pupillometry?. *PsyArXiv / OSF Preprints*, 2025.

Kuwamizu R, Yamamoto N, Otani K, Moriguchi Y. Emergent blink rate in early childhood is associated with neural origins of executive function. *bioRxiv*, 2026.

Kuwamizu R, Yamazaki Y, Aoike N, Hiraga T, Hata T, Yassa MA, Soya H. Limited potential for fNIRS photobiomodulation in exercise-induced pupil dynamics and improved executive function. *NeuroImage*, 313, 121233, 2025.

Kuwamizu R, Yamazaki Y, Aoike N, Lee D, Soya H. Resting-state blink rate does not increase following very-light-intensity exercise, but individual variation predicts executive function enhancement levels. *Journal of Physiological Anthropology*, 44, 10, 2025.

Lee D, Yamazaki Y, Kuwamizu R, Okamoto M, Soya H. Prefrontal executive function enhanced by prior acute inhalation of low-dose hypoxic gas: Modulation via cardiac vagal activity. *NeuroImage*, 310, 121139, 2025.

Matsui T, Takahashi S, Yamaguchi T, Funabashi D, Imada T, Shimizu H. A Glycaemia-Prolonging Carbohydrate Gel Reduces Hunger and Cognitive Fatigue During Prolonged Esports Play. *bioRxiv*, 2026.

Matsui T, Takahashi S, Funabashi D, Ohba C, Nakamura K. Acute Milk-Protein Intake Enhances Pupil-Linked Executive Function and Esports Performance During Prolonged Play. *bioRxiv*, 2026.

Matsui T, Yamaguchi T, Funabashi D, Takahashi S, Matsuoka H, Dobashi S, Kigoshi K, Yamada S, Takagi H. Endogenous oxytocin-linked heart rate synchrony for social connection in live sports spectators. *bioRxiv*, 2025.

Matsui T, Yamaguchi T, Dobashi S, Takahashi S, Tachibana Y, Takamizawa R, Kosugi W, Mizuno S. Sparkling Water Co-Consumption Enhances Oxytocin-Linked HR Synchrony and Social Connection in Live Sports Spectatorship. *bioRxiv*, 2026.

Nakajima F, Ikarashi K, Yamashiro K, Ochi G, Fujimoto T, Sato D. Neural representation of proactive and reactive inhibitory control adaptations across sensory modalities. *Cerebral Cortex*, 35(10), bhaf272, 2025.

Ochi G, Koyama T, Oneyama K, Okamoto Y, Fujimoto T, Sato D, Yamashiro K. Facial lower-region changes during high-intensity exercise as predictors of reduced arousal state. *Journal of Sports Sciences*, 43(24), 3095-3109, 2025.

Ojio Y, Yamada K, Amemiya R, Kawamura S, Rice SM, Purcell R. Understanding the relationship between sport-related psychological safety and mental toughness in male elite athletes. *Sports Psychiatry*, 4, 113-120, 2025.

Okamoto M, Hata T, Hiraga T, Soya H. Treadmill Running Model for Rodents as a Translational Approach Based on Human Physiological Responses. *Advances in Neurobiology*, 44,3-19, 2025

Otani Kota, Watanabe R, Kuwamizu R, Yamamoto N, Moriguchi Y. The Developmental Origin of Inner Speech: Evidence from Mental Counting Task for 3-6 Years-Old Children. *SSRN*, 2025.

Sakai T, Amemiya R. Is presenteeism behavior a predictor of physical and psychological health and performance in high school and college athletes? A longitudinal study. *Japanese Journal of Sport Psychology*, 53(1), 2026.

Sato D. Response inhibition and exercise: from theory to translational practice. *Frontiers in Rehabilitation Sciences*, 7, 1778941, 2026.

Takahashi S, Kosugi W, Kagesawa J, Mizuno S, Matsui T. Sparkling Water Limits Cognitive Fatigue with Stable Pupil Diameter during Real World Esports Training. *bioRxiv*, 2025.

Yamamoto N, Kuwamizu R, Moriguchi Y. Hostile Cognitions and Emotions Following Social Exclusion in Japanese Adults and Young Children. *Journal of Experimental Child Psychology*, 253, 106200, 2025.

+5 research articles

Books

Kuwamizu R, Yamazaki Y, Suwabe K, Suzuki K, Sankai Y, Soya H: Pupil Dynamics Predict Exercise Brain Stimulation: An Overview of Exercise Pupillometry. *Advances in Neurobiology*, 44, 113-131, 2025.

Matsui T, Soya H: The Dual Role of Lactate in the Exercising Brain: Fueling Energy and Signaling Fatigue. *Advances in Neurobiology*, 44, 207-216, 2025.

Okamoto M, Hata T, Hiraga T, Soya H: Treadmill Running Model for Rodents as a Translational Approach Based on Human Physiological Responses. *Advances in Neurobiology*, 44, 3-19, 2025.

Yamazaki Y, Sato D, Yamashiro K: Gating of Neuroplasticity: Effects and Mechanisms of Acute Aerobic Exercise as a Brain Stimulation for the Sensorimotor Cortex. *Advances in neurobiology*, 44, 405-430, 2025.

+1 book

Awards

Kuwamizu R: GeroScience Publication Award Honorable Mention (Byun K, Hyodo K, Suwabe K, Fukuie T, Ha M-S, Damrongthai C, Kuwamizu R, Koizumi H, Yassa MA, Soya H: Mild exercise improves executive function with increasing neural efficiency in the prefrontal cortex of older adults), 2025.

+3 awards

B. Waza Division

Research Articles

Edagawa T, Fujimori T, Hashimoto S, Okamoto Y, Nakajima T, Sado, N. Proximal-specific reduced mass of lower limbs in male endurance runners does not result in improved mechanical ease of leg swing in proportion to reduced mass. *Journal of Biomechanics*, 193, 113012, 2025.

Fujimori T, Sado N. Mechanical properties of the gastrocnemius muscle-tendon unit in male athletic high jumpers. *Journal of Biomechanics*, 13(9), e70370, 2025.

Fujimori T, Tominaga T, Edagawa T, Tasaki Y, Sado N. Power exertion of gastrocnemius fascicle and tendon in running at different speeds: a pilot study. *The 30th Congress of International Society of Biomechanics* (Stockholm, Sweden), 2025.

Furuhashi Y, Muratomi K, Hasegawa T, Yoshida T, Tanigawa S, Maemura H. Effect of Attentional Focus on Jump Exercises in Track and Field Athletes ~ Countermovement Jump vs. Drop Jump ~. *Journal of strength and conditioning research*, 40(2), 186-190, 2026.

Hasegawa T, Muratomi K, Furuhashi Y, Mizusima J, Maemura H. Monitoring Neuromuscular Function in Sprinters Using the Countermovement Jump: A Longitudinal Case Study. *International Journal of Strength and Conditioning*, 5(1), 1-10, 2025.

Hashimoto S, Tominaga T, Ohyama-Byun K, Sado N. Three-dimensional upper limb joint kinetics during the release phase of the shot put and its relevance to performance. *Journal of Biomechanics*, 185, 112691, 2025.

Hirofumi J, Minami K, Yumi A, Ryo O, Hiroki S, Keisuke KY, Yasuo S, Miwako H. Electromyographic analysis of muscle activity during support scull in artistic swimming. *Journal of Science and Medicine in Sport*, 28, 68-69, 2025.

Hobo A, Shiotani H, Inaba H, Sado N. Plantar fascia stiffness accounts for individual variance in its strain during hopping at different frequencies in females. *International Society of Biomechanics in Sports Conference (Doha, Qatar)*, 2025.

Huang D, Wang X, Takagi H, Wang Z, Wang C, Yang L, Huang B. Effects of sodium bicarbonate on 200 m time trial performance and physiological responses in swimmers: a systematic review and meta-analysis of randomized controlled trials. *Research in Sports Medicine*, 33(3), 291-307, 2025.

Keisuke KY, Sengoku Y, Takagi H. Effect of different breathing frequencies with breath-holding on muscle activity and coordination during butterfly swimming in national-level female swimmers. *Frontiers in sports and active living*, 7, 1-12, 2025.

Keisuke KY, Nakazono Y, Arellano R, Ruiz-Navarro JJ, Sengoku Y, Takagi H. Joint kinematics and inter-segmental coordination during underwater undulatory swimming: Comparing swimmers of different performance levels. *Journal of Biomechanics*, 195, 1-9(113085), 2025.

Koga D, Tsunokawa T, Kawai E, Nakazono Y, Sengoku Y, Takagi H. Relationship between 3D lower-limb kinematics and foot propulsive force during breaststroke kicking. *Sports Biomechanics*, 10, 1-18, 2025.

Konno K, Noshiro T, Itaya A, Kizuka T, Ono S. The role of preparatory muscle activity in a one-step approach to vertical jumping. *Scientific Reports*, 2026.

Matsui T, Yamaguchi T, Funabashi D, Takahashi S, Matsuoka H, Dobashi S, Kigoshi K, Yamada S, Takagi H. Endogenous oxytocin-linked heart rate synchrony for social connection in live sports spectators. *bioRxiv*, 2025.

Minami K, Yumi A, Hiroki S, Ryo O, Keisuke KY, Yasuo S, Miwako H, Hirofumi J. Comparing muscle coordination using muscle synergy analysis during sculling movement and exercise band training. *Journal of Science and Medicine in Sport*, 28, 12, 2025.

Muratomi K, Furuhashi Y, Ushirooka N, Kanno K, Tanigawa S, Maemura H. Metabolic efficiency in a supramaximal treadmill running test does not directly determine 400-m sprint performance. *Journal of Sports Medicine and Physical Fitness*, in press

Sado, N. Biomechanical inter-relationships between physical and motor features in maximal effort locomotion. *Sports Biomechanics*, 2025.

Shinkai R, Ando S, Nonaka Y, Kizuka T, Ono S. Comparison of visual strategies between table tennis players of different skill levels in unpredictable rallies. *International Journal of Sports Science & Coaching*, 2025.

Shinkai R, Ando S, Nonaka Y, Kizuka T, Ono S. Gaze behavioral patterns during table tennis forehand rallies. *Journal of vision*, 25(4), 1-15, 2025.

Takeda T, Koga D, Tsunokawa T, Sengoku Y, Takagi H. Net force analysis during streamlined glide, dolphin kick, and front crawl at high velocities in competitive swimming: implications for optimal propulsion timing. *Sports Biomechanics*, 1-20, 2026.

Tominaga T, Sado N. Effect of lumbar spine motion on psoas major length during running at different speeds. *International Journal of Sports Medicine*, 47(6), 465-470, 2025.

Tominaga T, Tasaki Y, Sado N. Speed-dependent increase in lumbar lordosis is independent of anterior pelvic tilt and lumbo-pelvic extension during treadmill running. *Journal of Biomechanics*, 186, 112715, 2025.

Tsunokawa T, Nakazono Y, Otsuka T, Kudo S. Comparison of inter-jointed coordination during underwater undulatory swimming according to different skill level. *The XXX Congress of the International Society of Biomechanics At: Stockholm*, 2025.

Tsunokawa T, Nakazono Y, Otsuka T, Kudo S. Relationship between Inter-joint Coordinative Patterns and Kinematic Parameters at the Lower Limb Joints during Underwater Undulatory Swimming. *International Journal of Sport and Health Science*, 2025.

Yamamoto T, Miura K, Matsuda K, Matsumoto J, Hashimoto R, Ono S, Sadato N, Fukunaga M. Brain-wide activation and deactivation maps during smooth and saccadic tracking in humans. *Cerebral Cortex*, 35(8), 1-14, 2025.

Yang Y, Sugawara H, Lee X, Enomoto Y. How pacing patterns influence middle-distance performance: Perspectives from object tracking and oxygen uptake. *Journal of Human Sport and Exercise*, 20(4), 1332-1346., 2025.

Yoshida T, Furuhashi Y, Shinkai R, Zushi A, Maemura H, Ono S, Tanigawa S. Characteristics of visual search behavior for improving performance in the drop jump intervention instructional movie. *International Journal of Sports Science & Coaching*, 2025.

Yoshimura Y, Kizuka T, Ono S. Relative eye height modulates perceived velocity of targets approaching along a horizontal plane. *Attention, Perception, & Psychophysics*, 88(5), 1-15, 2025.

Zhang S, Sado N, Fujii N. Adjustment of segmental rotations to achieve both racket speed and accuracy at various impact heights during a two-handed backhand stroke. *Sports Biomechanics*. 24(7). 1990-2005, 2025.

+7 research articles

Books

3 books

Awards

Sado N: JSB Academic Award, Japanese Society of Biomechanics (Sado N, Fujimori T, Tobe N: Discrepancy between 'contributing to' and 'sharing variance with' the effective energy for height in high jump), 2025.

Sado N: New Investigator Award (Poster) Gold Medal (1st Place), International Society of Biomechanics in Sports (Hobo A, Shiotani H, Hirata K, Inaba H, Sado N: Plantar fascia stiffness accounts for individual variance in its strain during hopping at different frequencies in females), 2025.

+1 award

C. Karada Divison

Research Articles

Aikawa Y, Kato Y, Kioka K, Iwama Y, Miyazawa R, Ogata H, Kiyono K, Omi N. The time course of changes in bone mass and bone strength induced by the combination of voluntary running exercise and food restriction in young female rats. *Physical Activity and Nutrition*, 30(1), 82-91, 2026.

Aikawa Y, Wakasugi Y, Fukuyasu T, Sasai N, Yamashita T, Ohtsuki M, Hori A, Kioka K, Omi N, Nakai N, Higashida K. Combination of running and energy restriction impairs bone parameters but does not inhibit endurance adaptations in fast-twitch muscle in young female rats. *Journal of Applied Physiology (1985)*, 139(1), 14-26, 2025.

Amano T, Yasuda S, Yokoyama S, Oshima S, Okamoto Y, Otsuka J, Kato H, Kunimasa Y, Hiwa T, Fujii N, Kenny GP, Hosokawa Y, Mündel T, Kondo N, Inoue Y. Biological maturation and sex differences of cholinergic sweating in prepubertal children to young adults. *Annals of the New York Academy of Sciences*, 1547(1), 183-191, 2025.

Asano Y, Miyachi M, Nanri H, Murakami H, Gando Y, Nakagata T, Yoshida T, Okura T, Yamada Y. Relationship between bioelectrical impedance-derived muscle quality and physical activity, sedentary behavior, or sleep using compositional data analysis (CoDA). *Scientific Reports*, 15(1), 44108, 2025.

Asano Y, Miyachi M, Nanri H, Murakami H, Gando Y, Nakagata T, Yshida T, Okura T, Yamada Y. Association of bioimpedance-derived parameters with pulse wave velocity: Phase angle, extracellular to intracellular water ratio, and body cell mass. *Physiological Reports*, 13(17), e70548, 2025.

Asano Y, Tsunoda K, Nagata K, Lim N, Tsuji T, Shibuya K, Okura T. Association of muscle mass, muscle quality, and function with mortality in community-dwelling older adults: Focus on segmental phase angle and extracellular to intracellular water ratio. *Clinical Nutrition ESPEN*, 70, 240-248, 2025.

Asano Y, Tsunoda K, Nagata K, Lim N, Tsuji T, Shibuya K, Okura T. Segmental phase angle and the extracellular to intracellular water ratio are associated with functional disability in community-dwelling older adults: A follow-up study of up to 12 years. *Nutrition*, 133, 112709, 2025.

Asano Y, Yoshida T, Tsunoda K, Yokoyama K, Watanabe Y, Yoshinaka Y, Okura T, Kimura M, Yamada Y. Segmental validation of the 50-kHz phase angle as a valid, practical proxy that closely approximates the characteristic-frequency phase angle and associations with muscle function and body water: A cross-sectional study. *Clinical Nutrition ESPEN*, 70, 263-273, 2025.

Asano Y, Yoshida T, Tsunoda K, Yokoyama K, Watanabe Y, Yoshinaka Y, Okura T, Kimura M, Yamada Y. Sex- and age-related declines in muscle mass, strength, physical performance, and muscle quality among community-dwelling older adults: A cross-sectional study. *Experimental Gerontology*, 210, 112862, 2025.

Asano Y, Yoshida T, Yokoyama K, Watanabe Y, Yoshinaka Y, Tsunoda K, Okura T, Kimura M, Yamada Y. Age- And Sex-related Differences In Body Composition, Muscle Mass, Strength, Physical Function, Quality, And Specific Muscle Strength Community-dwelling Older Adults. *Medicine & Science in Sports & Exercise*, 57(105), 175-176, 2025.

Baba A, Suzuki M, Yoshitake R, Inose Y, Omi N. Association Between Social Networking Service Use and Body Image Among Elementary School Children in Japan. *Eur J Investig Health Psychol Educ*, 15(7), 125, 2025.

Baba A, Yoshitake R, Inose Y, Omi N. Association between Screen Time and Lifestyle Habits among Upper Elementary School Children. *Journal of Nutritional Science and Vitaminology (Tokyo)*, 71(3), 248-255, 2025.

Bartman NE, Moyon NE, Cheung SS, Fujii N, Amano T, Mündel T. Agreement between mean weighted skin temperature formulas during exercise. *Journal of Applied Physiology (1985)*, 139(4), 934-942, 2025.

Cao Y, Lee J, Seol J, Shibuya K, Yoon J, Arai T, Yanagisawa M, Okura T. Sleep regularity is associated with cognitive function and shows an inverted U-shaped relationship with serum brain-derived neurotrophic factor. *Sleep Medicine*, 134, 106688, 2025.

Cao Y, Lee J, Seol J, Tsunoda K, Shibuya K, Yoon J, Arai T, Okura T. Dose–Response Relationship Between Sleep Regularity Index and Stage-Specific Alzheimer’s Disease: Cross-Sectional Evidence from Japanese Adults. *Geriatrics*, 11(2), 1-16, 2026.

Fujii N. Does hydration status affect ventilation during prolonged exercise?. *Experimental Physiology*, 110(4), 529-531, 2025.

Fujii N, Hirayama T, Matsutake R, Ohki S, Nabekura Y, Hiroyama T, Nishiyasu T. Caffeine Augments Sustained Hyperemia in Previously Exercised Leg in Male Competitive Long-Distance Runners. *International Journal of Sport Nutrition and Exercise Metabolism*, 35(4), 312-323, 2025.

Fujii N, Kajiki M, Kenny GP, Amano T, Lei TH, Watanabe K, Nishiyasu T. Brief topical application of TRPV3 channel agonist carvacrol mediates skin vasodilation via NOS, COX, and K⁺ channel pathways in young adults. *European Journal of Pharmacology*, 1008, 178347, 2025.

Fukushima K, Kamahara K, Tomori A, Nakata Y. COVID-19 infection and return-to-play outcomes of elite athletes in Japan: a retrospective descriptive study. *BMJ Open Sport & Exercise Medicine*, 11(4), 1-8, 2025.

Fukushima K, Nakayama H, Nakajima K, Nakata Y. Injury mechanisms of concussion in soccer among Japanese middle- and high-school students: a retrospective review of insurance registry data. *The Journal of Physical Fitness and Sports Medicine*, in press

Fukushima K, Nakayama H, Tomori A, Hangai M, Nakajima K, Sasadai J, Otomo M, Kojima Y, Sasai H, Kiyohara K, Nakata Y. Epidemiology of sport-related concussions among middle- and high-school students in Japan: a nationwide analysis using insurance registry data. *BMJ Open Sport & Exercise Medicine*, 12(1), e002943, 2026.

Goulet N, McCormick JJ, King KE, Fujii N, Amano T, Kenny GP. Brain-derived neurotrophic factor in peripheral blood mononuclear cells from healthy adults following acute aerobic exercise and a 6-hour recovery in temperate and hot environments. *Journal of Thermal Biology*, 133, 104293, 2025.

Hannah EC, Kara LM, Rodrigo FV, Robbie R, Redman LM, Ainslie PN, Alemán-Mateo H, Andersen LF, Anderson LJ, Arab L, Bedu-Addo K, Bonomi AG, Bouten CV, Bovet P, Brage S, Buchowski MS, Butte NF, Camps SG, Casper R, Close GL, Colbert LH, Cooper JA, Cooper R, Das SK, Deb S, Terrence F, Gillingham M, Goris AH, Gurven M. Sex

Differences in Measures of Energy Expenditure and Body Composition in Young, Middle-Aged, and Older Adults. *Current developments in nutrition*, 10(1), 107614, 2026.

Horiuchi M, Fujii N. Japanese steam sand bath heat therapy mediates comparable reductions in blood pressure with smaller discomfort and respiratory strains than hot water immersion and sauna. *European Journal of Applied Physiology*, Online ahead of print., 2025.

Huang D, Huang B, Wang Z, Takagi H, Chen Y, Huang Z, Wang X, Tong X. Does caffeine intake enhance physical and physiological performance in swimmers? a systematic review and meta-analysis. *Frontiers in Physiology*, 16, 1648862, 2025.

Inoue T, Nagata K, Tateoka K, Tokunaga S, Tsuji T, Okura T. Association of the Digital Trail Making Peg test with traffic crash and near-miss traffic crash experiences among Japanese community-dwelling older drivers. *Geriatrics & Gerontology International*, 25(7), 946-951, 2025.

Iwamoto N, Arita Y, Takahashi H. Bilateral characteristics of the Achilles tendon and their relationship with jump performance in university Kendo athletes. *Journal of musculoskeletal & neuronal interactions*, 25(2), 232-238, 2025.

Jesus F, Costello NB, Kondo E, Francisco R, Nunes CL, Matu J, Sardinha LB, Murphy-Alford AJ, Luke AH, Pontzer H, Rood J, Sagayama H, Westerterp KR, Wong WW, Yamada Y, Schoeller DA, Speakman JR, Silva AM. Isotope Dilution for Measuring Total Energy Expenditure, Water Turnover, and Total Body Water in Athletes: A Systematic Review. *International Journal of Sport Nutrition and Exercise Metabolism*, 35(4), 363-382, 2025.

Kasahara J, Ozaki H, Matsubayashi T, Takahashi H, Nakayama R. Semantic segmentation for individual thigh skeletal muscles of athletes on magnetic resonance images. *Radiological physics and technology*, 18(2), 496-504, 2025.

Katagiri A, Fujii N. Should we breathe more like dogs when overheated? A perspective from acid-base balance. *Experimental Physiology*, Online ahead of print., 2025.

Katagiri A, Kawai S, Nishiyasu T, Fujii N. Ice Slurry Mitigates Hyperventilation and

Cerebral Hypoperfusion, and May Enhance Endurance Performance in the Heat. *Medicine and Science in Sports and Exercise*, 57(7), 1488-1500, 2025.

Katagiri A, Otsuka R, Nishiyasu T, Fujii N. In-Exercise Caffeine Improves Exercise Performance in the Heat without Exacerbating Hyperventilation and Brain Hypoperfusion. *Medicine and Science in Sports and Exercise*, 57(11), 2577-2587, 2025.

Khatun S, Uchizawa A, Kondo E, Silva AM, Shimamura Y, Yamasaki S, Ahagon Y, Hoshi D, Tanaka Y, Mukai N, Watanabe K, Omi N, Tanakaka, Sagayama H. Exploring the association between bioelectrical impedance parameters and body composition in women with and without dysmenorrhea and postmenopause. *Physiological reports*, 13(14), e70473, 2025.

Khatun S, Uchizawa A, Kondo E, Yajima K, Silva AM, Hoshi D, Tanaka Y, Mukai N, Watanabe K, Omi N, Tanaka K, Sagayama H. Characterizing link among phase angle, muscle strength, body composition variables, and urine metabolites in Japanese females with or without dysmenorrhea: A pilot study. *Physiology & Behavior*, 300, 115039, 2025.

Kikuchi A, Yoshimoto H, Monma T, Ozawa S, Tsuchida M, Takeda F. Association Between Alcohol Drinking Patterns and Multiple Metabolic Syndrome Components in Non-Obese and Obese Individuals. *Neuropsychopharmacology Reports*, 46(2), e70105, 2026.

Kim HK, Nakayama Y, Yoshida T, Yokoyama K, Watanabe Y, Itoi A, Yoshimura E, Nanri H, Tsutsumi R, Nakamura Y, Tateishi N, Ono R, Kimura M, Sagayama H, Yamada Y, Kyoto-Kameoka. Hydration, water requirements, and energy balance from spring to summer in free-living older adults: a doubly labelled water study. *Scientific reports*, 16, 9872, 2026.

Kioka K, Aikawa Y, Noboritate K, Yamamoto H, Sugiyama K, Shigu H, Watanabe K, Suzuki H, Omi N. Food Restriction Impairs Exercise-Induced Bone Mass Acquisition and Causes Iron Metabolic Disturbance with Storage Depletion in Young Female Rats. *Journal of Nutritional Science and Vitaminology*, 72(2), 101-112, 2026

Kioka, Kazuki, Fukazawa, Hitomi, Omura, Kanae, Higuchi Y, Mihara T, Uchiyama K,

Takahashi H, Omi, N. Effects of rice protein hydrolysate on bone fracture properties in ovariectomized rats. *Phys Act Nutr*, 29, 70-76, 2025.

Kojima C, Namma-Motonaga K, Kamei A, Takahashi Y, Ishibashi A, Takahashi H. Dynamics of muscle glycogen increase in brachial and thigh muscles with carbohydrate loading. *European journal of applied physiology*, 125(8), 2257-2265, 2025.

Kosaki K, Mori S, Kon K, Kawamura T, Maeda S. Brachial arterial adaptations in college baseball players: a difference between pitchers and fielders Comments. *Journal of Science and Medicine in Sport*, 28(4), 331-336, 2025.

Kosaki K, Mori S, Matsui M, Saito Chie, Kuro-o M, Yamagata K, Maeda S. Circulating fibroblast growth factor 23 and physical performance in middle-aged and older adults with normal kidney function. *Scientific Reports*, 15, 34404, 2025.

Kosaki K, Mori S, Matsui M, Yoshioka M, Park J, Nishitani N, Yoshikoshi S, Murasaki W, Saito C, Gosho M, Maeda S, Kuro-o M, Yamagata K. Renal tubular calcium phosphate microcrystallopathy and age-related kidney function decline: The Aging Kidney Study. *Clinical Kidney Journal*, 19(5), sfag085, 2025.

Kosaki K, Mori S, Namatame H, Kobayashi R, Yoshikoshi S, Tarumi T, Usui T, Saito C, Gosho M, Nakata Y, Maeda S, Kuro-O M, Yamagata K. The Aging Kidney and Exercise Training Study: protocol for a randomized controlled trial within cohorts (TwICs) study. *BMC Nephrology*, 26(1), 533, 2025.

Kose Y, Nunome H, Sagayama H. The volume of occupational physical activity, lower back pain and workload among route salespeople in the beverage vending machine industry: a pilot study. *Physical activity and nutrition*, 29(3), 13-22, 2025.

Lee J, Nagata K, Seol J, Park I, Tokuyama K, Yanagisawa M, Okura T. Multi-task exercise increases delta power in non-rapid eye movement sleep among older female adults: A randomized crossover trial. *NeuroImage*, 310, 121105, 2025.

Lei TH, Bai SJ, Perry B, Mündel T, Kondo N, Fujii N, Wang IL, Peng M, Goulding R. Exercise above Critical Power Elicits Greater Post-Exercise Hypotension than Heavy Exercise Performed to Task Failure. *Medicine and Science in Sports and Exercise*, Online

ahead of print., 2025.

Lei TH, Li HY, Goulding RP, Wang F, Amano T, Fujimoto T, Fujii N, Kondo N, Perry B, Mündel T. High-intensity exercise training mitigates post-exercise orthostatic hypotension in men. *European Journal of Applied Physiology*, Online ahead of print., 2025.

Lei TH, Wei X, Wang F, Chen J, Goulding R, Cotter J, Lee JKW, Tan B, Amano T, Fujimoto T, Fujii N, Kondo N, Mündel T. The effect of hypohydration before and different rehydration strategies after severe intensity exercise on post-exercise hypotension in men. *European Journal of Applied Physiology*, 125(7), 1971-1982, 2025.

Li-Maloney C, McGarr GW, King KE, Fujii N, Amano T, Kenny GP. An exploratory assessment of regional cutaneous vasodilator responses to local heating in young and older females. *Journal of Thermal Biology*, 131, 104190, 2025.

Lim N, Tsunoda K, Seol J, Asano Y, Nagata K, Tsuji T, Fujii K, Fujii Y, Teraoka K, Okura T. Dose-Response Association between Hand Dexterity and Functional Disability: A Longitudinal Study from the Kasama Study. *Annals of Geriatric Medicine and Research*, 29(4), 468-476, 2025.

Liu J, Fujii Y, Fujii K, Seol J, Nagata K, Okura T. Mediating role of frailty/pre-frailty on the association between exercise participation and traffic crashes among Japanese community-dwelling older drivers. *BMC Geriatrics*, 25, 341, 2025.

Matsui M, Kosaki K, Kawamatsu N, Nozaki Y, Machino-Otsuka T, Suzuki K, Nakata Y, Maeda S, Ishizu T. Association between childhood physical activity and adulthood sedentary behavior and physical activity in patients with congenital heart disease. *The Canadian Journal of Cardiology*, in press,corrected proof, 2026.

Matsutake R, Fujimoto T, Ichinose M, Watanabe K, Fujii N, Nishiyasu T. The blood flow and vascular responses in dynamically exercising skeletal muscles evoked by combination of cold stimulation and voluntary apnea in humans. *European Journal of Applied Physiology*, 125(4), 1179-1190, 2025.

McGarr GW, Li-Maloney C, Akerman AP, Fujii N, Amano T, Kenny GP. Effects of sex and

heating rate on skin blood flow oscillations during local heating in young adults. *The American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*, 329(4), R589-R597, 2025.

McGrosky A, Luke A, Arab L, Bedu-Addo K, Bonomi AG, Bovet P, Brage S, Buchowski MS, Butte N, Camps SG, Casper R, Cummings DK, Krupa Das S, Deb S, Dugas LR, Ekelund U, Forrester T, Fudge BW, Gillingham M, Goris AH, Gurven M, Hambly C, Joosen A, Katzmarzyk PT, Kempen KP, Kraus WE, Kriengsinyos W, Kuriyan R, Kushner RF, Lambert EV, Larsson CL, Leonard WR, Lessan N, Löf M, Martin CK, Medin AC, Neuhouser ML, Pietilainen KH, Plasqui G, Prentice RL, Racette SB, Raichlen DA, Ravussin E, Redman L, Reynolds RM, Rimm EB, Roberts S, Rosinger AY, Samuels MH, Sinha S, Snodgrass JJ, Stice E, Uauy R, Urlacher SS, Verbunt JA, Wolfe B, Wood B, Zhang X, Murphy-Alford AJ, Loechl CJ, Rood J, Sagayama H, Schoeller DA, Westerterp KR, Wong WW, Yamada Y, Speakman JR, Pontzer H. Energy expenditure and obesity across the economic spectrum. *Proceedings of the National Academy of Sciences*, 122(29), e2420902122, 2025.

McGrosky A, Luke A, Rood J, Sagayama H, Westerterp KR, Wong WW, Yamada Y, Speakman JR, Pontzer H. Reply to Uzoigwe: DLW is safe and validated. *Proceedings of the National Academy of Sciences of the United States of America*, 122(45), e2520874122, 2025.

Monma T, Matsui T, Koyama S, Ueno H, Kagesawa J, Oba C, Nakamura K, Takagi H, Takeda F. Prevalence and Factors Associated with Poor Subjective Sleep Quality Among Electronic Sports Players: A Cross-Sectional Study. *Sage Open*, 16(2), 2026.

Monma T, Yoshida G, Fujita E, Yamane M, Ando K, Omi N, Sagayama H, Takeda F. Difference in subjective sleep quality and related lifestyle habits of student-athletes according to chronotype: a cross-sectional study. *BMC Sports Science, Medicine and Rehabilitation*, 17(1), 122, 2025.

Morimoto E, Matsui M, Mori S, Kumakura T, Konishi Mika, Michinobu R, Fukuda T, Takemura M, Kosaki K. Comparison of brachial artery endothelial function in the dominant arm between male college baseball pitchers and fielders. *Journal of Strength and Conditioning Research*, 40(1), 106-111, 2026.

Nishimura I, Fujii Y, Yoon J, Okura T. Combined effect of self-perceived voice disorders and hearing loss on social acts in older adults: a 1-year longitudinal study. *Journal of Physical Therapy Science*, 38(3), 108-116, 2026.

Nishimura I, Tsunoda K, Fujii Y, Nagata K, Hwang B, Okura T. Prospective associations between self-perceived voice disorders and psychological, social, and physical well-being among community-dwelling older adults. *Annals of Geriatric Medicine and Research*, 25(0163), 1-9, 2026.

Ogura A, Murakami T, Ogaki R, Miyamoto Y, Nakata Y. Mechanisms of Knee Injuries in Male University Rugby Union Players: A Systematic Video Analysis and Injury Surveillance Study. *Journal of Physical Fitness and Sports Medicine*, in press

Ogura A, Ogaki R, Shimasaki T, Nakata Y. Factors Associated with Knee Injury Occurrence Using Performance Tests in Male University Rugby Players. *Journal of Physical Fitness and Sports Medicine*, in press

Oharazawa A, Maimaituxun G, Watanabe K, Nishiyasu T, Fujii N. Metabolomics of the Skin Dialysate Collected from the Forearm Subjected to Local Heating. *Journal of Investigative Dermatology*, 146(1), 267-270, 2025.

Omi N. Effects of milk on the bone of a rat model of the female athlete triad. *International Journal of Analytical Bio-Science*, 13(3), 24-32, 2025.

Osaki R, Takahashi H. Relationship between Core Muscle Oxygen Saturation and Gross Efficiency during Cycling. *International Journal of Sports Medicine*, *Online ahead of print*, 2025.

Ozawa S, Monma T, Tsuchida M, Kikuchi A, Takeda F. Psychosocial Work Environment Related to Presenteeism Among Japanese Employees. *Journal of Occupational and Environmental Medicine*, 67(9), e605-e611, 2025.

Roxburgh BH, Cotter JD, Fujii N, Masodsai K, Thomas KN. Hot-water immersion: a (not so) new therapy for the primary and secondary prevention of hypertension?. *Journal of Applied Physiology* (1985), *Online ahead of print.*, 2025.

Shi Y, Kim J, Mizushima R, Mizuno S, Yanagisawa T, Nakata Y. Understanding User Perspectives to Inform Personalized Physical Activity Promotion in a Health Care App: Qualitative Focus Group Interview Study. *JMIR Formative Research*, 10, e85390, 2026.

Shi Y, Yu X, Mitsuhashi R, Wan J, Mizushima R, Nakata Y. Effects of dog ownership and exercise self-efficacy on physical activity of Japanese office workers during the COVID-19 pandemic. *Discover Public Health*, 22(1), 1-13, 2025.

Shibuya K, Asano Y, Nagata K, Tsuji T, Kawajiri K, Okura T. A neural network approach to sarcopenia prediction based on bioelectrical impedance in community-dwelling older adults. *PLOS ONE*, 20(11), e0335601, 2025.

Shoji T, Kogure T, Toda N, Hakoshima M, Katsuyama H, Yanai H, Tokunaga S, Tateoka K, Tsuji T, Okura T. A Comparison of Higher-Level Functional Capacity Between Older Adults with and Without Type 2 Diabetes Mellitus: A Cross-Sectional Study Using Propensity Score Matching. *Geriatrics*, 10(5), 115, 2025.

Sunayama M, Omi N, Nishiyama T, Otani T, Nakagawa-Senda H, Nagaya T, Nagaya K, Kato M, Shibata K, Yamada T, Suzuki S. Long-term association between body size in adolescence or early adulthood and future fracture risk. *J Bone Miner Metab*, 43, 718-725, 2025.

Tagawa K, Tomita Y, Nishiyasu T, Fujii N. Sustained sitting attenuates cutaneous reactive hyperemia while improving venoarteriolar reflex, and alternating ambient exposure to cool and heat does not modulate these responses. *European Journal of Applied Physiology*, 125(12), 3785-3795, 2025.

Teraoka K, Tsuji T, Monma T, Lim N, Okura T. Gender-specific factors affecting changes in physical function among older adults during the COVID-19 pandemic. *Scientific Reports*, 15(1), 32033, 2025.

Tokinoya K, Kosaki K, Kumamoto S, Yoshida Y, Nabekura Y, Takekoshi K, Maeda S. Changes in Circulating and Urinary Apoptosis Inhibitor of Macrophage Levels After Marathon Running. *Asian Journal of Sports Medicine*, 16(1), e161117, 2025

Tomita Y, Tagawa K, Nishiyasu T, Fujii N. Alternate local skin cooling and heating ameliorates impaired forearm skin vasodilation function mediated by prolonged sitting. *Microvascular Research*, 159, 104795, 2025.

Tsunoda K, Nagata K, Jindo T, Soma Y, Kitano N, Fujii Y, Okura T. Changes in cycling and incidences of functional disability and mortality among older Japanese adults. *Transportation Research Part F: Traffic Psychology and Behaviour*, 111, 296-305, 2025.

Uchiyama A, Kamimura H, Miida S, Maruyama H, Tonouchi T, Seol J, Kokubo T, Okura T, Watanabe Y, Kimura N, Abe H, Sakamaki A, Yokoo T, Terai S. Unrecognised sleep disturbances in patients with cirrhosis diagnosed with a portable electroencephalogram device. *BMJ Health & Care Informatics*, 33, 1-9, 2026.

Wang H, Schlader ZJ, Lei TH, Mündel T, Amano T, Fujii N, Nishiyasu T, Cotter J, Kondo N. The effect of seasonal heat acclimatization on cool-seeking behaviour during passive heat stress in young adults. *Experimental Physiology*, 110(7), 992-1004, 2025.

Wang H, Schlader ZJ, Lei TH, Mündel T, Amano T, Fujii N, Nishiyasu T, Kondo N. The effect of biological sex on cool seeking behavior during passive heat stress in young adults. *European Journal of Applied Physiology*, 125(6), 1577-1589, 2025.

Yokoyama S, Fujii N, Kenny GP, Yamashita H, Quan YS, Amano T. Efficient sweat induction and pilocarpine delivery on the forearm but not the palm using coated microneedles in humans. *Applied Materials Today*, 46, 102891, 2025.

Yoshikoshi S, Kosaki K, Oka K, Maeda S, Yamagata K. Sedentary behavior as an emerging risk factor for chronic kidney disease: a narrative review. *Clinical and Experimental Nephrology*, 30, 1-14, 2025.

Yoshimura Y, Sagawa T, Ono S, Nishiyasu T, Fujii N. How breathing disrupts vision: hyperventilation-induced hypocapnia impairs oculomotor responses in resting humans. *The Journal of Physiology*, 604(5), 2336-2354, 2026.

Yoshioka M, Kaneko T, Wan J, Uchizawa A, Sagayama H, Omi N, Kuro-O M, Shimojo N, Nakata Y, Kosaki K. Effects of replacing meat and fish with pulse intake on circulating fibroblast growth factor-23 levels during a 12-week dietary weight-loss intervention

using the Four-Food-Group Point Method: a pilot randomized controlled study.. *Applied Physiology, Nutrition, and Metabolism*, 50(1), 1-15, 2025.

Yoshioka M, Mori S, Kon K, Kawamura T, Maeda S, Kosaki K. Difference between brachial artery endothelial functions in the throwing and non-throwing arms of baseball pitchers. *Sport Sciences for Health*, 21, 2785-2793, 2025.

+9 research articles

Books

4 books

Awards

Takahashi H: 2025 GeroScience Outstanding Publication Award Honorable Mentions, Official Journal of the American Aging Association (Yoshiko A, Shiozawa K, Niwa S, Takahashi H, Koike T, Watanabe K, Katayama K, Akima H: Association of skeletal muscle oxidative capacity with muscle function, sarcopenia-related exercise performance, and intramuscular adipose tissue in older adults), 2025.

+ 8 awards

D. Computational Sport Sciences Divison

Research Articles

Akahori S, Teruya S, Shrestha P, Yoshii Y, Iizuka S, Ikumi A, Tsuge H, Kitahara I. Detection of Medial Epicondyle Avulsion in Elbow Ultrasound Images via Bone Structure Reconstruction. *2025 19th International Conference on Machine Vision and Applications (MVA)*, 1-5, 2025.

Akahori S, Teruya S, Shrestha P, Yoshii Y, Michinobu R, Iizuka S, Ikumi A, Tsuge H, Kitahara I. Measurement of Medial Elbow Joint Space using Landmark Detection. *IEEE Access*, 13, 12 pages, 2025.

Anastasiev A, Kadone H, Marushima A, Watanabe H, Zaboronok A. Automated EMG-Based Classification of Upper Extremity Motor Impairment Levels in Subacute Stroke. *MDPI/ Sensors*, 25(22), 6829, 2025.

Anastasiev A, Kadone H, Marushima A, Watanabe H, Zaboronok A, Watanabe S, Matsumura A, Suzuki K, Matsumaru Y, Nishiyama H, Ishikawa E. A Novel Bilateral Data Fusion Approach for EMG-Driven Deep Learning in Post-Stroke Paretic Gesture Recognition. *MDPI/ Sensors*, 25(12), 3664, 2025.

Aoki J, Kadone H, Suzuki, K. A Waist-Mounted Interface for Mobile Viewpoint-Height Transformation Affecting Spatial Perception. *MDPI/ Sensors*, 26(2), 372, 2025.

Chen K, Asada T, Miura K, Kadone H, Sakashita K, Sunami T, Yamazaki M, Ienaga N, Kitahara I, Kuroda Y. FilterNet: A Filtered Gait Motion Fusion Network for Classifying Adult Spinal Deformity. *IEEE The 25th International Conference on Electronics, Information, and Communication (ICEIC2026)*, 6 pages, 2026.

Galindo-Leon S, Kadone H, Hassan M, Suzuki K. The Combined Role of Coronal and Toe Joint Compliance in Transtibial Prosthetic Gait: A Study in Non-Amputated Individuals. *MDPI/ Prosthesis*, 7(4), 82, 2025.

Guo M, Xie C, Kitahara I. A Gaze Guidance Method in Autonomous Vehicles through Gamification. *APMAR 2025 (17th Asia-Pacific Workshop on Mixed and Augmented Reality)*, 4081, 13pages, 2025.

Hayashi K, Kaneda Y, Mori M, Shinozaki M. Cusp-to-core transition of dark matter halos across galaxy mass scales. *Publications of the Astronomical Society of Japan*, 2026.

Higashide K, Matsuda A. Performance Evaluation of Carbon Fibre Plate-Inserted Shoes through Human-Shoe Coupled Dynamic Analysis. *The 9th Asia-Pacific Congress on Computational Mechanics & 7th Australasian Conference on Computational Mechanics abstract*, 2, 2025.

Isobe K, Suzuki Y, Suzuki K. Soft Wearable Robot Adaptive to Individual Shoulder Differences for Respiratory Rehabilitation. *2025 47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, 1-4, 2025.

Kaneda Y, Otaki K, Mori M. c-M relation of the sub-galactic dark matter halos and the effect of the cusp-to-core transition. *Proceedings of the International Astronomical Union*, 379, 172-176, 2025.

Kato T, Yamagiwa S. Stochastic Technique on Assigning Adaptive Minimal Code Bits to Locally Frequent Symbols in Continuous Data Stream. *IEEE Access*, 13, 63334-63348, 2025.

Kawashima H, Xie C, Odawara Y, Matsuo K, Kawamura Y, Kitahara I. A Consideration on Video-Based Behavior Analysis for Skill Evaluation of Pipe Jacking Operators. *IEEE The 25th International Conference on Electronics, Information, and Communication (ICEIC2026)*, 4 pages, 2026.

Koizumi K, Hassan M, Kadone H, Shimizu Y, Suzuki K. Passive Add-On Mechanism with Rotational Dampers for Step-Down Support in Electric Wheelchairs. *2025 47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, 1-4, 2025.

Kudo T, Xie C, Kitahara I. Improving Watching Comfort of Live Free Viewpoint Video by Catch-Up Playback. *Human Factors in Communication of Design (AHFE 2025)*, 177, 58, 2025.

Lafitte M.N, Andrea C.S, Kadone H, Hoshino E, Minagawa Y, Yamazaki M, Suzuki K. Cerebral Correlates of Robot-Assisted Upper Limb Motion Driven by Motor Intention in

Healthy Individuals: An fNIRS Study. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 33, 2322-2334, 2025.

Matsuo K, Suzuki K, Mikami R, Hidaka R, Jayatilake D, Srinivasan M, Kanazawa M. Application of an artificial intelligence–assisted electronic stethoscope for evaluating swallowing function decline across age groups and sex in Japan. *Geriatrics & Gerontology International*, 2025.

Miyamoto T, Mikhailov A, Hassan M, Puentes S, Hiraga T, Soya H, Suzuki K. Robotic Exoskeleton With Mechanically Implemented Kinematic Synergy for Quadrupedal Gait of Rats. *IEEE Robotics and Automation Letters*. 10(4). 3620-3627, 2025.

Mori M, Hotta A, Otaki K. Formation of the Andromeda Giant Stream and the 10 kpc Ring Structure in the Andromeda Galaxy. *Proceedings of the International Astronomical Union*, 379, 110-115, 2025.

Nishikawa T, Marumo K, Yamagiwa S. Performance Impact on Reducing Energy Consumption Applying Adaptive Stream-Based Entropy Coding on FPGA. *Proceedings of 2025 35th International Conference on Field-Programmable Logic and Applications (FPL)*, 355-355, 2025.

Nishikawa T, Marumo K, Yamagiwa S. Sustainable Power Reduction for DRAM applying Adaptive Stream-based Entropy Coding focusing on Video Processing System. *Proceedings of SCA/HPCAsia 2026 Workshops: Supercomputing Asia and International Conference on High Performance Computing in Asia Pacific Region Workshops (SCA/HPCAsia WS 2026)*, 388 - 398, 2026.

Nunez E, Hirokawa M, Hautasaari A, Suzuki K. Hug Synchronization Enhances Social Presence and Prosociality in Computer-Mediated Communication. *IEEE Transactions on Affective Computing*, 1-16, 2025.

Nunez E, Sienkiewicz B, Ramirez Millan V, Indurkha B, Suzuki K. Investigating the Role of Personality in Appearance Preferences for Huggable Communication Interfaces: A User-Centered Study. *MDPI / electronics*, 14(21), 4295, 2025.

Oki M, Matsuzaki S, Ishitobi R, Usami T, Suzuki K. Supporting wayfinding behavior in

shuttle run activities by floor projected pacemakers in a special-needs school gymnasium. *ELSEVIER / International Journal of Child-Computer Interaction*, 2025.

Otaki K, Kazuno Y, Mori M. Collision frequency between dark matter subhaloes within Milky Way-like galaxies. *New Astronomy*, 124, 102501, 2026.

Qu T, Matsuda A. Constitutive modeling of fibrous tissues with non-symmetric fiber dispersion: Application to extension behavior of leather. *Key Engineering Materials*, 1014, 59-65, 2025.

Qu T, Matsuda. A. Structure-based modeling of artificial leather used in sports with non-symmetric fiber distribution. *Mechanical Engineering Journal*. 12, 16, 2025.

Saiki H, Hirokawa M, Hassan M, Suzuki K. A Large-Scale Mixed Reality Stadium for Training Coordinated Tactical Plays in Basketball. *Frontiers in Virtual Reality*, 2025.

Shimazu A, Xie C, Tanigawa S, Kitahara I. 3D Human Pose Estimation from Pseudo-Two-Viewpoints Videos. *International Workshop on Advanced Imaging Technology (IWAIT) 2026*, 6 pages, 2026.

Shimizu Y, Kadone H, Eguchi Y, Sasaki K, Suzuki K, Hada Y. Exploring the Perceived Value of Standing in Individuals with Lower Limb Impairments. *MDPI / Journal of Clinical Medicine*, 14, 5161, 2025.

Shimizu Y, Kadone H, Sasaki K, Yamazaki M, Hada Y, Suzuki K. Development and Clinical Evaluation of Spring-Assisted Standing Training for Individuals with Spinal Cord Injury: A Safety and Feasibility Study. *MDPI / Clinical Medicine*, 14(19), 6767, 2025.

Shinozaki M, Mori M, Kaneda Y, Hayashi K. The characteristic mass and energy conversion efficiency in the cusp-core transition of dark matter haloes: implications for scaling relations and supernova feedbacks. *Monthly Notices of the Royal Astronomical Society*, 547, 1-12, 2026.

Shishido K, Xie C, Inoue M, Kitahara I. Immersive Telecommunication Method Based on Live-Action Video with Perspective Taking. *Communications in Computer and Information Science*, 2522, 159-168, 2025.

Sugita A, Mikami R, Anderson J, Stading M, Jayatilake D, Suzuki K, Matsuo K. Automated Assessment of Test of Masticating and Swallowing Solids Using a Neck-Worn Electronic Stethoscope: A Pilot Study. *WILEY / Oral Rehabilitation*, 2025.

Suzuki Y, Sugawara D, Oki M, Takahashi H, Matsuda T. Effects of a diabetes-themed cartoon-based education on disease knowledge and physical activity among Japanese children: a preliminary randomized controlled trial. *Clinical Pediatric Endocrinology*, 35(1), 74-84, 2026.

Tada H, Xie C, Kitahara I. Development of Group Formation System for Collaborative Learning Using Genetic Algorithm with Multimodal Affect Estimation. *Learning and Collaboration Technologies (HCII 2025), Lecture Notes in Computer Science*, 15807, 392-408, 2025.

Wang Y, Xie C, Kumano K, Kitaguchi D, Hashimoto S, Oda T, Kitahara I. Accelerating Surgical Skill Acquisition by Using Multi-View Bullet-Time Video Generation. *MDPI Applied Sciences*, 15(16), 19 pages, 2025.

Xiang Z, Xie C, Kitahara I. BrushGaussian: Brushstroke-Based Stylization for 3D Gaussian Splatting. *MDPI Applied Sciences*, 15(12), 20 pages, 2025.

Xie C, Yoshii Y, Kitahara I. SV-DRR: High-Fidelity Novel View X-Ray Synthesis Using Diffusion Model. *Medical Image Computing and Computer Assisted Intervention (MICCAI 2025) / Lecture Notes in Computer Science*, 15963, 572-582, 2025.

Yamagiwa S, Kato T, Nishikawa T. Lazy lossless compression by symbol lookahead invalidation in universal adaptive stream-based entropy coding. *International Journal of Data Science and Analytics*, 22(33), 1-24, 2026.

Yamagiwa S, Moriya S, Noma T. Identification Method for Human Body Movement on Sports by Selecting Key Body Parts with Fluent Oversampling Technique. *IEEE Access*, 14, 28478 - 28494, 2026.

Yamaguchi M, Mori M, Kiriwara T, Miki Y, Ogami I, Chiba M, Komiyama Y, Tanaka M. Simultaneous formation of the Andromeda Giant Southern Stream and the

substructures in the Andromeda Halo. *Publications of the Astronomical Society of Japan*, 77, 36, 2025.

Zhang L, Xie C, Kitahara I. DP-AMF: Depth-Prior-Guided Adaptive Multi-Modal and Global-Local Fusion for Single-View 3D Reconstruction. *MDPI Journal of Imaging*, 11(7), 14 pages, 2025.

Zhang L, Xie C, Kitahara I. MetaSSP: Enhancing Semi-supervised Implicit 3D Reconstruction through Meta-adaptive EMA and SDF-aware Pseudo-label Evaluation. *2026 International Conference on Electronics, Information, and Communication (ICEIC)*, 1-6, 2026.

Zhang L, Xie C, Kitahara I. MGP-KAD: Multimodal Geometric Priors and Kolmogorov-Arnold Decoder for Single-View 3D Reconstruction in Complex Scenes. *2025 IEEE International Conference on Image Processing (ICIP)*, 1564-1569, 2025.

Zhang L, Shrestha P, Zhou Y, Xie C, Kitahara I. Dual-S3D: Hierarchical Dual-Path Selective SSM-CNN for High-Fidelity Implicit Reconstruction. *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV 2025)*, 25104-25113, 2025.

Zhang Y, Hara Y, Sinnen O, Yamagiwa S. Parallelising Stream-Based Lossless Data Compression on GPUs and CPUs. *Proceedings of SCA/HPCAsia 2026 Workshops: Supercomputing Asia and International Conference on High Performance Computing in Asia Pacific Region Workshops (SCA/HPCAsiaWS 2026)*, 293 - 302, 2026.

+9 research articles

Books

Matsuda A: Part I: Sports mechanics, 5. Soft materials in sport: Tom allen (Eds.): Routledge Handbook of Sports Technology and Engineering, Routledge International Handbooks, 2025.