BIOMECHANICAL DESIGN OF THE HUMAN FOOT AND ANKLE: ENGINE, TRANSMISSION, AND RADIATOR

Featuring Dr. Kota Takahashi
University of Nebraska at Omaha

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Parking Available in Lot T

ABOUT DR. TAKAHASHI

Kota Takahashi is a faculty member in the Center for Research in Human Movement Variability in the Department of Biomechanics at the University of Nebraska at Omaha. He received his PhD from the Biomechanics and Movement Science Interdisciplinary Program at the University of Delaware. He completed postdoctoral training from the Joint Department of Biomedical Engineering at the University of North Carolina at Chapel Hill and North Carolina State University. His research spans basic science and applied research to improve rehabilitation outcomes in persons with mobility-limiting disorders (e.g., limb amputation, stroke, diabetes).

LEARNING OBJECTIVES

• To learn how musculoskeletal structures within the human foot and ankle system produce and/or utilize various forms of energy (i.e., mechanical, metabolic, and thermal) during locomotor-tasks.
• To synthesize similarities between structures and man-made machines, such as parts of an automobile (e.g., engine, transmission, radiator).
• To examine how simple biomechanics-based concepts can drive innovations in wearable device technology, such as prostheses, exoskeletons and footwear.

The presenter, Kota Takahashi, Ph.D., and the planning committee, Nick Stergiou, Ph.D., Jeffrey Kaipust, M.S., Angela Collins, B.S., and Jackie Farley, CPP have no financial conflict of interest to disclose.

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