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EDUCATION

Ph.D. Exercise Science & Biomechanics (2021). University of Nebraska, Omaha, NE

Ph.D. Candidate. Mechanical Engineering (2017). State University of Semnan, Semnan, Iran

M.S. Mechanical Engineering (2010). State University of Semnan, Semnan, Iran

B.S. Mechanical Engineering (2008). State University of Semnan, Semnan, Iran

PATENTS

Mahdipour Bouzani N, Mohammadzadeh Gonabadi A, Mahdipour Bouzani H, Mahdipour Bouzani M, inventors (October 3, 2012). Design & Production of Optimized Helical Gear. Iran #74288.

BOOK

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on Wearable Robotics. Online, October 13, 2020.

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Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of timing and magnitude of forward forces at the waist on the metabolic cost of walking. 43rd Annual Meeting of the American Society of Biomechanics (ASB2019). Calgary, AB, Canada. July 31 - August 04, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating the time profile of metabolic cost within the gait cycle during level and uphill walking. 43rd Annual Meeting of the American Society of Biomechanics (ASB2019). Calgary, AB, Canada. July 31 - August 04, 2019.

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Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of timing and magnitude of forward forces at the waist on the metabolic cost of walking. 9th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO. April 05-06, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating the time profile of the metabolic cost during the gait cycle of level and uphill walking. 9th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO. April 05-06, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating variations in metabolic cost within the stride cycle during level and uphill walking. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 01, 2019.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of Timing and Magnitude of Waist Pulling Assistance on Metabolic Cost and Joint Mechanics. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 01, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating variations of metabolic cost within the stride cycle during level and uphill walking. Human Movement Variability Conference. University of Nebraska at Omaha, Omaha, NE. May 16, 2019.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of variations in timing and magnitude of forward forces at the waist on the metabolic cost of walking. Human Movement Variability Conference. University of Nebraska at Omaha, Omaha, Nebraska. Omaha, NE. May 16, 2019.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2019). Effects of timing and magnitude of forward forces at the waist on the metabolic cost of walking. 14th Annual Dynamic Walking Conference. Canmore, AB, Canada. June 3-6, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating the time profile of the metabolic cost during the gait cycle of level and uphill walking. 14th Annual Dynamic Walking Conference. Canmore, AB, Canada. June 3-6, 2019.

Mohammadzadeh Gonabadi A, Antonellis P, Malcolm P (2019). Estimating the time profile of metabolic cost of level and uphill walking within the stride cycle. University of Memphis, Memphis, TN. Mid-South Movement Science Conference (MSBC2019). Memphis, TN. February 22, 2019.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2018). Effects of timing and magnitude of waist pulling assistance on metabolic cost and joint mechanics. 8th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO. April 14, 2018.

Mohammadzadeh Gonabadi A, Antonellis P, Vanderheyden T, Bishop KI, Malcolm P (2018). Development of a footswitch device to predict falls using nonlinear analysis. 8th Annual Regional Meeting of the Rocky Mountain American Society of Biomechanics. Estes Park, CO. April 14, 2018.

Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2018). Energetics of Walking with Waist Pulling Assistance. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 2, 2018.

Mohammadzadeh Gonabadi A, Antonellis P, Vanderheyden T, Bishop KI, Malcolm P (2018). Developing a footswitch device to assess the likelihood of falls in at-risk populations. Student Research and Creative Activity Fair. University of Nebraska at Omaha. Omaha, NE. March 2, 2018.

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Antonellis P, Mohammadzadeh Gonabadi A, Malcolm P (2018). Effects of timing and magnitude of waist pulling assistance on metabolic cost and joint mechanics. Human Movement Variability Conference. University of Nebraska at Omaha. Omaha, NE. May 17, 2018.

Mohammadzadeh Gonabadi A, Antonellis P, Vanderheyden T, Bishop KI, Malcolm P (2018). Development of a footswitch device to assess the likelihood of falls in at-risk populations. Human Movement Variability Conference. University of Nebraska at Omaha. Omaha, NE. May 17, 2018.

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Etemadee N, Saedodin S, Mohammadzadeh Gonabadi A (2012). Thermal energy losses in pressure reducer valve of city gate station. First International Conference and third national conference of Dams & Hydro power. Tehran, Iran. February 8-13, 2012.

Ramezani H, Sasan A, Moradi M, Mohammadzadeh A (2010). Design of robot path in three-dimensional workspace, with the aid of thermal potential. 11th Iranian Conference on Manufacturing Engineering. Tabriz, Iran. 2010.