

Dr. Mahdiar Hariri

Texas A&M University-Corpus Christi
Science & Engineering, Engineering

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Education

PhD, University of Iowa, 2012.

MS, Shiraz University, 2005.

BS, Shiraz University, 2002.

Professional Employment

Professional Assistant Professor, Texas A&M University - Corpus Christi. (August 2016 - Present).

Courses Taught at TMUCC:

“Strength of Materials”, “Strength of Materials Lab.”, “Thermodynamics Lab.”

Full-time Lecturer, Wichita State University. (August 2015 - August 2016).

Courses Taught at WSU:

“Control Systems and Industrial Automation”, “Programmable Logical Controllers”,
“Mechanical Engineering Laboratories”, “Design of Machine Elements”

Postdoctoral Research Scholar, University of Iowa (VSR program at CCAD). (May 2012 - August 2015).

working in the area of predictive dynamics (digital human modeling), modeling the dynamic motion tasks : Going Prone, Rolling Over, Vertical Jumping, Getting Up from Prone, Jogging around markers and developing new theorems (such as the NCM Method in my thesis) and general-purpose modules (such as collision avoidance modules) for the extension of the capabilities of the predictive dynamics method

Research Assistant, University of Iowa (VSR program at CCAD). (August 2007 - August 2012).

working in the area of predictive dynamics (digital human modeling), modeling the dynamic motion tasks : Aiming, Kneeling, Going Prone, Aiming in Prone Position, Stand-to-Prone-to-Aim and developing new theorems (such as the NCM Method in my thesis) and general-purpose modules (such as collision avoidance modules) for the extension of the capabilities of the predictive dynamics method

Professional Memberships

American Society of Mechanical Engineers

TEACHING

Teaching Experience

ENGR 3320, STRENGTHS OF MATERIALS
ENTC 3408, STRENGTH OF MATERIALS
ENTC 3420, THERMODYNAMICS

SCHOLARLY AND CREATIVE ACTIVITIES

Presentations

Hariri, M. (Author), Ajisafe, T. D. (Author), Park, J. (Author), "Optimization-Based Human Motion Prediction of Walking with Acceleration and Deceleration," 8th International Conference on Applied Human Factors and Ergonomics, Applied Human Factors and Ergonomics (AHFE), Los Angeles, California. (July 2017).

Hariri, M. (Author), Ajisafe, T. D. (Author), Park, J. (Author), "Optimization-Based Prediction of the Motion of a Human Performing a Horizontal Drop Jump," 8th International Conference on Applied Human Factors and Ergonomics, Applied Human Factors and Ergonomics (AHFE), Los Angeles, California. (July 2017).

SERVICE

Department

Committee Member, ABET steering committee. (October 2016 - Present).

Professional

Reviewer, Journal Article, International Journal of Mechanisms and Robotic Systems (IJMRS). (January 2017 - Present).

Track Organizer, American Society of Mechanical Engineers (ASME). (August 2016 - Present).

Reviewer, Conference Paper, ASME. (January 2013 - Present).

Reviewer, Journal Article, International Journal of Robotics and Automation. (January 2013 - Present).

Public

Track Organizer, 2017 Science Olympiad. (March 2017 - Present).

Volunteer : Judge, Alamo: FIRST Tech Challenge Gulf Coast Double League Championship. (January 2017 - Present).