

Publications of “Professor Ali Meghdari”

Sharif University of Technology, Tehran, IRAN

Scientific Publications in International Journals (i.e. ISI)

- [1] S. H. Mahboobi, **A. Meghdari**, N. Jalili, F. Amiri, “Molecular Dynamics Simulation of Manipulation of Metallic Nanoclusters on Stepped Surfaces”, **Central European Journal of Physics**, pp. 1-12, Accepted July 26, 2010.
- [2] S. H. Mahboobi, **A. Meghdari**, N. Jalili, F. Amiri, “Molecular Dynamics Simulation of Manipulation of Metallic Nanoclusters on Double-layer Substrates”, **Physica E Journal**, Vol. 42, No. 9, pp. 2364-2374, 2010.
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- [4] S. H. Tamaddoni, F. Jafari, **A. Meghdari**, S. Sohrabpour, “Biped Hopping Control Based on Spring Loaded Inverted Pendulum Model”, **Int. Journal of Humanoid Robotics**, Vol. 7, No. 2, pp. 263-280, 2010.
- [5] H. Nejat Pishkenari, N. Jalili, S. H. Mahboobi, A. Alasty, **A. Meghdari**, “Robust Adaptive Backstepping Control of Uncertain Lorenz System”, **Chaos; Journal of American Institute of Physics**, Vol2, pp. 1-5, 2010.
- [6] A. Selk Ghafari, **A. Meghdari**, and G. R. Vossoughi, “Feedback Control of the Neuro-musculoskeletal System in a Forward Dynamics Simulation of Stair Locomotion”, **Proc. of IMechE Part H: Journal of Engineering in Medicine**, Vol. 223, No. 2, pp. 663-675, 2009.
- [7] A. Selk Ghafari, **A. Meghdari**, and G. R. Vossoughi, “Muscle-Driven Forward Dynamics Simulation for the Study of Differences in Muscle Function during Stair Ascent and Descent”, **Proc. of IMechE, Part H: Journal of Engineering in Medicine**, Vol. 223, pp. 863-874, 2009.
- [8] A. Selk Ghafari, **A. Meghdari**, and G. R. Vossoughi, “Biomechanical Analysis for the study of Muscle Contributions to Support Load Carrying”, **Proc. of IMechE, Part C: Journal of Mechanical Engineering in Science**, Vol. 224, pp. 1-12, 2009.
- [9] S. H. Mahboobi, **A. Meghdari**, N. Jalili, F. Amiri, “Precise Positioning and Assembly of Metallic Nanoclusters as Building Blocks of Nanostructures: A Molecular Dynamics Study”, **Physica E Journal**, Vol. 42, pp. 182-195, 2009.
- [10] M. R. Azghani, F. Farahmand, **A. Meghdari**, G. Vossoughi, M. Parnianpour, “Design and Evaluation of a Novel Triaxial Isometric Trunk Muscle Strength Measurement System”, **Proc. of IMechE, Part H, Journal of Engineering in Medicine**, Vol. 223, pp. 755-766, 2009.
- [11] S. H. Mahboobi, **A. Meghdari**, N. Jalili, F. Amiri, “Two-Dimensional Atomistic Simulation Metallic Nanoparticles Pushing”, **Modern Physics Letters B Journal**, Vol. 23. No. 22, pp. 1-8, 2009.

[12] H. Nejat Pishkenari, **A. Meghdari**, "Surface Defects Characterization with Frequency and Force Modulation Atomic Force Microscopy Using Molecular Dynamics Simulations", **Current Applied Physics Journal**, Vol. 10, **August 2009**.

[13] A. Selk Ghafari, **A. Meghdari**, and G. R. Vossoughi, "Estimation of the Human Lower Extremity Musculoskeletal Conditions during Backpack Load Carrying", **Scientia Iranica: Int. Journal of Science & Engineering, Transaction on Mechanical Engineering**, Accepted for Publication, **April 2009**.

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Scientific Publications in Domestic/National Journals (in Farsi)

- [1] **A. Meghdari**, S. Salahi Moghaddam, " Isn't Friendship Possible between Engineering and Humanities at Iranian Technological Universities?", (in Persian), **Iranian Journal of Engineering Education**; Iranian Academy of Sciences, Vol. 11, No. 43, **Autumn 2009**.

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