	University of Tehran Faculty of New Sciences and Technologies Human and Robot Interaction Laboratory (+98)913-2008492 ah.karimi@ut.ac.ir
EDUCATION	Bachelor of Science, Mechanical Engineering Isfahan University of Technology(IUT), Isfahan, Iran, 2008-2011 Concentration: Mechatronic Systems Thesis title: Analysis and Optimal Path Planning for a Biped Robot via Zero Mo- ment Point (ZMP) GPA: 17.20/20.
	Master of Science, Mechatronic Engineering University of Tehran, Tehran, Iran, 2011-Present Anticipated Graduation Date: 2013 Thesis title: Kinematic Optimization and Dimensional Synthesis of Parallel Robots GPA: 19.20/20 (Highest GPA among all ME students).
COMPUTER SKILLS	Computer algebra system: Matlab, Maple Engineering software: Adams, Catia, SolidWorks, Visual Nastran, Mastercam Programming languages: C++, Java
RESEARCH INTERESTS	Kinematics & Dynamics of Serial and Parallel Robots, Convex Programming, Syn- thesis of Parallel Robots, Optimization of Robotic Mechanical Systems, Model Pre- dective Control, Optimal Control, Biped Robots, Screw Theory, Algebraic Geometry, Kinematic Sensitivity, Interval Analysis, Redundant Manipulators, Cable Robots.
PUBLICATION	 A.Karimi, M.Danesh, A. Tabibian, and A. Nouri, "Dynamic Analysis and Path Planning for a Redundant Actuated Biped Robot", Proc. IEEE. Int. Conf. on Control, Instrumentation and Automation (ICCIA), 2011, pp. 1074-1079. M. Mousavi, A. Karimi, and M. Tale Masoule, "On the Approximated and Maximal Singularity-free Workspace of 6-UPS Parallel Mechanisms Using Con- var Optimization". Proc. IEEE. Int. Conf. on Robotics and Machatronics
	 (ICRoM), 2013. 3. A. Karimi, M. Tale Masoule, and P. Cardou, "Obtaining the Maximal Singularity-free Workspace of 6-UPS Parallel Mechanisms via Convex Optimization", to be submitted to Int. Workshop on Computational Kinematics, 2013.
HONORS & AWARDS	 Ranked 1st place among Mechatronic Engineering students throughout MSc., University of Tehran, Iran Awarded by the University President for academic achievements, University of Tehran, Iran, 2012
	 Registered patent, No.72148 issued by Iranian Organization of Patents Registration, 30.10.2011

4. $2^{\rm nd}$ place in Iran Open teen-size humanoid robot competition, Tehran, Iran, 2011

SELECTEDAdvanced Engineering Mathematics (20/20), Optimal Control (20/20), AdvancedCOURSESRobotics (19/20), Modern Control (19.5/20), Machine Vision (19/20), Mechatronic
Systems(18.6/20), Signal Processing (20/20), Introduction to Mechatronic Systems
(19.25/20).

MATHEMATICAL Linear Algebra, Complex Analysis, Optimization and Convexity, Numerical Meth-BACKGROUND ods, Differential Equations, Probability, Graph Theory, Fourier Analysis, Algebraic Geometry, Perturbation Methods.

LANGUAGE English (TOEFL IBT score: 91) Farsi: Native Russian: fair