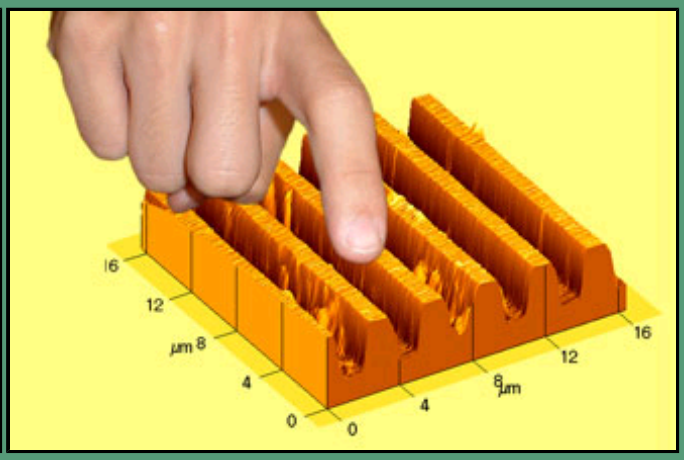
# NanoRobotics Lab @ Carnegie Mellon



**Miniature Mobile Robots** **Micro/Nano-Manipulation**




**New** [December 2009]:
In the news: NECN Boston Interview

**New** [November 2009]:
Journal Article: "Two-Dimensional Contact and Non-Contact Micro-Manipulation in Liquid using an Untethered Mobile Magnetic Micro-Robot"

**New** [October 2009]:
General News: Congratulations to Steve and Chytra for receiving the best paper award at IEEE/RSJ International Conference on Intelligent Robots and Systems, for paper titled "Microparticle Manipulation using Multiple Untethered Magnetic Microrobots on an Electrostatic Surface."

[September 2009]:
Journal Article: "Dangling Chain Elastomers as Repeatable Fibrillar Adhesives"
General News: News on start-up company on gecko adhesives

[August 2009]:
Journal Article: "Reversible Dry Micro-fibrillar Adhesives with Thermally Controllable Adhesion"

[July 2009]:
Project Page: Reconfigurable magnetic micro-modules
Journal Article: "Modeling and Experimental Characterization of an Untethered Magnetic Micro-Robot"

[June 2009]:
Journal Article: "Enhanced Reversible Adhesion of Dopamine Methacrylamide-Coated Elastomer Microfibrillar Structures under Wet Conditions"

[May 2009]:
Journal Article: "Enhanced Reversible Adhesion of Elastomer Microfibrillar Structures under Wet Conditions"
Journal Article: "Adhesion of Biologically Inspired Polymer Microfibers on Soft Surfaces"
Media Article: "Precision Control of Micro Machines"
New Project Page: "Dopamine methacrylamide-coated microfibrillar arrays"
Nature Letter: "Miniature devices: Voyage of the microrobots"
Journal Article: "Multiple magnetic microrobot control using electrostatic anchoring"
Conference Paper: Characterization of Bacterial Actuation of Micro-Objects
Conference Paper: Waalbot: Agile Climbing with Synthetic Fibrillar Dry Adhesives
Conference Paper: Automated 2-D Nanoparticle Manipulation with an Atomic Force Microscope
Conference Paper: A Miniature Ceiling Walking Robot with Flat Tacky Elastomeric Footpads
Conference Paper: Tankbot: A Miniature, Peeling Based Climber on Rough and Smooth Surfaces
Conference Paper: Dynamic Modeling and Analysis of Pitch Motion of a Basilisk Lizard Inspired Quadruped Robot Running on Water