

EE 821 Biomedical Engineering Systems

Fall Semester, 2003-04

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Adriano Cavalcanti, "Assembly Automation with Evolutionary Nanorobots and Sensor-Based Control applied to Nanomedicine", In EE 821 Biomedical Engineering Systems Course, Get Ten Papers to Review, Department of Electrical Engineering, National Central University, Jhongli City, Taiwan, February 2004.

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Assembly Automation With Evolutionary Nanorobots and Sensor-Based Control Applied to Nanomedicine

Adriano Cavalcanti, *Member, IEEE*

Abstract—The author presents a new approach within advanced graphics simulations for the problem of nano-assembly automation and its application for medicine. The problem under study concentrates its main focus on nanorobot control design for assembly manipulation and the use of evolutionary competitive agents as a suitable way to warranty the robustness on the proposed model. Thereby the presented paper summarizes as well distinct aspects of some techniques required to achieve a successful nano-planning system design and its simulation visualization in real time.

Index Terms—Biomedical computing, control systems, genetic algorithms (GAs), mobile robots, nanotechnology, virtual reality.

for 2007, and to reach this goal of build organic electronics, firms are forming collaborations and alliances that bring together new nanoproducts through the joint effort from companies such as IBM, Motorola, Philips Electronics, PARC, Xerox, Hewlett-Packard, Dow Chemical, Bell Laboratories, and Intel Corporation, just to quote a few [14], [21].

Building patterns and manipulating atoms with the use of scanning probe microscope (SPM) such as atomic force microscopy and scanning tunneling microscopy has been used with satisfactory success as a promising approach for the construction of nanoelectromechanical systems (NEMS) with three-dimensional (3-D) precision on 0.01 nm resolution [21]. However

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