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 3. Accession number: 7669617**Title:** Assembly automation with evolutionary **nanorobots** and sensor-based control applied to **nanomedicine****Authors:** [Cavalcanti, A.](#)¹**Author affiliation:** 1 Fraunhofer Inst. for Comput. Graphics, Darmstadt, Germany**Source title:** IEEE Transactions on Nanotechnology**Abbreviated source title:** IEEE Trans. Nanotechnol. (USA)**Volume:** 2**Issue:** 2**Publication date:** June 2003**Pages:** 82-7**Language:** English**ISSN:** [1536-125X](#)**CODEN:** [ITNECU](#)**Document type:** Journal article (JA)**Publisher:** IEEE**Country of publication:** USA**Material Identity Number:** [N761-2003-004](#)**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**Number of references:** 28**Inspec controlled terms:** [assembly planning](#) - [biomedical engineering](#) - [evolutionary computation](#) - [microrobots](#)**Uncontrolled terms:** [assembly automation](#) - [evolutionary nanorobots](#) - [sensor-based control](#) - [nanomedicine](#) - [advanced graphics simulations](#) - [nano-assembly automation](#) - [nanorobot control design](#) - [evolutionary competitive agents](#) - [robustness](#) - [nano-planning system design](#) - [simulation visualization](#)**Inspec classification codes:** [A6770J](#) Prosthetics and other practical applications - [A0710C](#) Micromechanical devices and systems - [C3385](#) Biological and medical control systems - [C3390](#) Robotics - [C7420](#) Control engineering computing - [C3260P](#) Microactuators - [C7330](#) Biology and medical computing - [C3355F](#) Control applications in assembling - [E0410D](#) Industrial applications of IT - [E1520C](#) Assembling - [E1550](#) Control technology and theory - [E1550A](#) Robotics - [E1640](#) Instrumentation - [E3654](#) Medical equipment and supplies industry**Treatment:** Applications (APP); Practical (PRA); Experimental (EXP)**Discipline:** Physics (A); Computers/Control engineering (C); Manufacturing and production engineering (E)**DOI:** 10.1109/TNANO.2003.812590**Database:** Inspec

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