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A Cavalcanti, B Shirinzadeh, M Zhang, LC Kretly - *Sensors*, 2008 - [mdpi.org](#)
... Although optical communication permits faster rates of data transmission, its energy demand makes it not ideal for medical **nanorobotics** [92]. ... for the **nanorobots** depending on customized requirements [5]. In defining the **nanorobot** application, ...
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A Cavalcanti, B Shirinzadeh, RA Freitas Jr, T Hogg - *Nanotechnology*, 2008 - [iop.org](#)
... aims to establish a useful frame- work as a testbed for **nanorobot** foraging inside ... Then, the considered therapeutic use of **nanorobots** includes cancer and intracranial treatments. ... provides a methodolog- ical approach that helps in the development of **nanorobotics** for medical ...
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A Cavalcanti, B Shirinzadeh, T Fukuda, S Ikeda - *IEEE-Nano 2007 Int. Conf. ...*, 2007 - [Citeseer](#)
... the process of defining transducers and actuators design strategies relevant to medical **nanorobotics**. ... has presented a new strategy for the development of **nanorobots**, considering aspects ... The **nanorobot hardware** architecture provided the main details on telemetric control ...
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A Cavalcanti, B Shirinzadeh, T Hogg, JA Smith - *IEEE-RAS ICAR Int'l Conf. On ...*, 2007 - [Citeseer](#)
... molecular machine, E-cadherin signal, electromagnetic coupling, medical **nanorobotics**, nanobioelectronics, nanomechanics ... 9]. Chemical nanosensors can be embedded in the **nanorobot** to monitor ... Thus, **nanorobots** programmed for such task can make a detailed screening ...
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A Cavalcanti, B Shirinzadeh, D Murphy, J Smith - *IEEE ICIS International ...*, 2007 - [Citeseer](#)
... Keywords: Architecture, cancer, **hardware**, integrated circuit, medical **nanorobotics**, nanobioelectronics, nanomechanics, nanomedicine ... position [1]. The simulation includes the NCD (**Nanorobot** Control Design) software for the **nanorobots** interactive operation [18]. ...
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A Cavalcanti, B Shirinzadeh, RA Freitas, ... - *Recent Patents on ...*, 2007 - [ingentaconnect.com](#)
... generation in determined open workspaces [65] but not for in vivo medical **nanorobotics**, especially since ... loss of information in monitoring the patient's glucose levels it is used a team of **nanorobots**. ... up with a good matching to the Low Noise Amplifier is used with the **nanorobot**. ...
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[Medical nanorobotics for diabetes control](#)
A Cavalcanti, B Shirinzadeh, LC Kretly - ... : *Nanotechnology, Biology, and ...*, 2008 - [Elsevier](#)
... Integrated simulation can provide interactive tools for addressing **nanorobot** choices on sensing, **hardware** design ... cloth, that is used as a smart portable device to communicate with **nanorobots**. ... provides a suitable choice to establish a practical medical **nanorobotics** platform for ...
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... As discussed throughout the paper, to achieve a complete **nanorobot** assembly based on dynamic capability behavior, different ... [3] A. Cavalcanti, RA Freitas Jr., "**Nanorobotics** Control Design: A ... [4] A. Cavalcanti, "Assembly Automation with Evolutionary **Nanorobots** and Sensor ...
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A Cavalcanti, B Shirinzadeh, T Fukuda, S ... - *The International Journal ...*, 2009 - [ijr.sagepub.com](#)
... to benefit from current research and developments in the field of medical **nanorobotics** (El- der et al. ... Therefore, **nanorobots** should provide a precise detection of aneurysm in the initial stages of ... The **nanorobot** is programmed for sensing and detects concentrations of NOS in the ...
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