Computational Requirements for Nano-machines*

Melanie Badura
Universität zu Lübeck
Lübeck
melanie.badura@student.uni-luebeck.de

ABSTRACT

This paper is a shortpaper for "Computational Requirements for Nano-Machines: There is limited Space at the bottom".[1]

CCS CONCEPTS

• **Computer systems organization** → **Embedded systems**; *Redundancy*; Robotics; • **Networks** → Network reliability.

KEYWORDS

ACM proceedings

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1 INTRODUCTION

For years, there has been talking of using nano-machines to create solutions for problems in medicine and other subjects. Such a machine should be able to communicate and sense/act. Computational power is also a big issue. Because Nano-machines are small, one question is how to implement these capabilities. While many researchers already deal with communication technology (cite one here), computational capability is usually left out. In this paper, there is an attempt to provide a general analysis of the computational capability of nano-machines. Since the capabilities of nano-machines vary widely, from nanoparticles with no computational capabilities to microprocessors (11 cites). Nano-machines divide into three groups according to complexity theory, by analyzing the tasks that nano-machines handle.

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[1]

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2 MITTELTEIL?

3 CONCLUSION

3.1 Subsection

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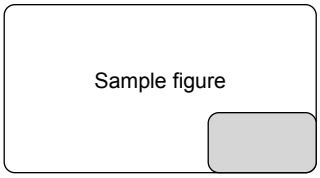

Figure 1: Sample figure