



Department of Computer Science and Engineering

REPORT ON

---

# Ant Colony Based Routing Algorithm

---

*Report Writers:*

Shantanu Sarkar

(0416052042)

Mahmud Ahmed

(0416052028)

Md. Mostafizur Rahman

(0416052032)

*Supervisor:*

Dr. Ashikur Rahman

February 24, 2017

# Contents

## Abstract

There are many routing algorithm available these days. But designing an efficient one is a challenging task. In this paper a routing protocol based on Swarm intelligence is presented.

# 1 Introduction

Introduction of the report goes here.

## 2 Some L<sup>A</sup>T<sub>E</sub>X Examples

### 2.1 Sections

Use section and subsection commands to organize your document. L<sup>A</sup>T<sub>E</sub>X handles all the formatting and numbering automatically. Use ref and label commands for cross-references.

### 2.2 Comments

Comments can be added to the margins of the document using the todo command, as shown in the example on the right. You can also add inline comments too:

This is an inline comment.

Here's  
a com-  
ment  
in the  
mar-  
gin!

### 2.3 Tables and Figures

### 2.4 Mathematics

L<sup>A</sup>T<sub>E</sub>X is great at typesetting mathematics. Let  $X_1, X_2, \dots, X_n$  be a sequence of independent and identically distributed random variables with  $E[X_i] = \mu$  and  $\text{Var}[X_i] = \sigma^2 < \infty$ , and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_i^n X_i$$

denote their mean. Then as  $n$  approaches infinity, the random variables  $\sqrt{n}(S_n - \mu)$  converge in distribution to a normal  $\mathcal{N}(0, \sigma^2)$ .

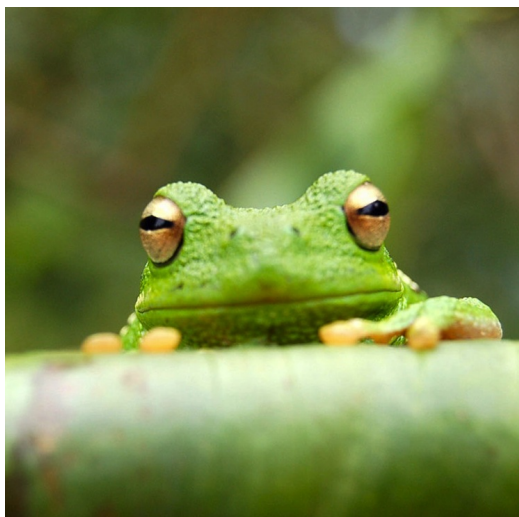


Figure 1: This is a figure caption.

## 2.5 Lists

You can make lists with automatic numbering ...

1. Like this,
2. and like this.

...or bullet points ...

- Like this,
- and like this.

We hope you find write $\text{\LaTeX}$  useful, and please let us know if you have any feedback using the help menu above.