
Comparison of Large-Scale Graph Processing methods for Anomaly Detection

Author:
Bhuvan Venkatesh

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BHUVAN VENKATESH¹ AND THE BIG DOG²

¹National Center For Supercomputing Applications (NCSA)

²Laboratory for Computation, Data, and Machine Learning

³Illinois Data Science Initiative

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<https://github.com/lcdm-uiuc>

INTRODUCTION

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EXAMPLES OF ARTICLE COMPONENTS

The sections below show examples of different article components.

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Sample Figure

Figure 1 shows an example figure.

Fig. 1. False-color image, where each pixel is assigned to one of seven reference spectra.

Sample Table

Table 1 shows an example table.

SAMPLE EQUATION

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

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_{i=1}^n X_i \quad (1)$$

Table 1. Shape Functions for Quadratic Line Elements

local node	$\{N\}_m$	$\{\Phi_i\}_m$ ($i = x, y, z$)
$m = 1$	$L_1(2L_1 - 1)$	Φ_{i1}
$m = 2$	$L_2(2L_2 - 1)$	Φ_{i2}
$m = 3$	$L_3 = 4L_1L_2$	Φ_{i3}

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

SAMPLE ALGORITHM

Algorithms can be included using the commands as shown in algorithm 1.

Algorithm 1. Euclid’s algorithm

```

1: procedure EUCLID( $a, b$ )                                ▷ The g.c.d. of  $a$  and  $b$ 
2:    $r \leftarrow a \bmod b$ 
3:   while  $r \neq 0$  do                                       ▷ We have the answer if  $r$  is 0
4:      $a \leftarrow b$ 
5:      $b \leftarrow r$ 
6:      $r \leftarrow a \bmod b$ 
7:   return  $b$                                               ▷ The gcd is  $b$ 
```

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