Paper: **large Scale Evolution of CNN using Volunteer Computing**

**Introduction**

**No of paragraphs**

**Paragraph no. 1**

CNN have become active area due to strong results in image classification.

**Paragraph no. 2**

For evolving the structure of feed forward, there exist some techniques. Some approaches like **ant colony optimization,** not applied to CNN yet.

**Paragraph no. 3**

In **Koutnic et al.** work published that maximize the expected accuracy of generated architecture. This approach is gradient base.

**Paragraph no. 4**

Some work proposed on Genetic CNN method that encode CNN as binary string. In other work, image classification evolved on **CIFAR-10** and **CIFAR-1000** dataset.

**Paragraph no. 5**

Over 4500 volunteer computers trained over 12000 CNNs by using **MNIST** handwritten digits dataset. These results made stronger by apply other techniques.