



**MERCCon 2019**  
Moratuwa Engineering Research Conference

# DEEP LEARNING FOR VISION

## Workshop

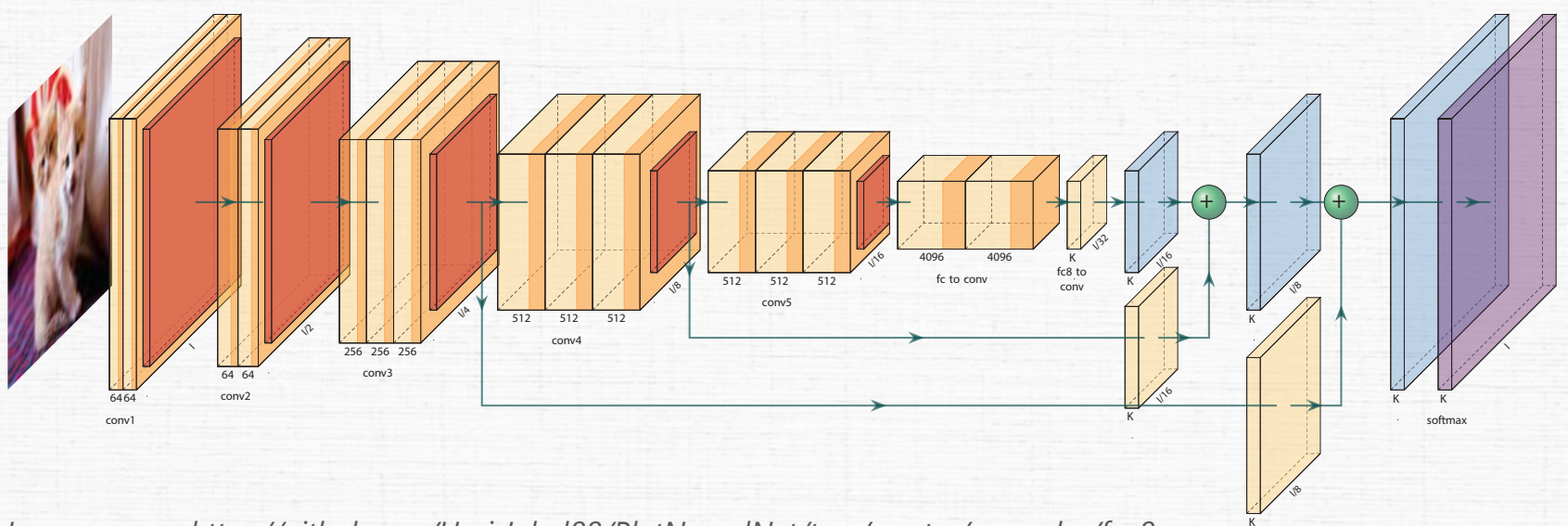


Image source: <https://github.com/HarisIqbal88/PlotNeuralNet/tree/master/examples/fcn8s>

### Tentative Schedule

Item	Topic	Duration	Presenter
1	General introduction	30 minutes	Dr. Ranga Rodrigo
2	Anatomy of a Convolutional Neural Network	30 minutes	Mr. Kumara Kahatapitiya
3	Introduction to Tensorflow with Keras API	30 minutes	Mr. Dumindu Tissera
4	Vision tasks using deep learning (semantic segmentation, classification, surface normal prediction)	30 minutes	Dr. Ranga Rodrigo
5	Implementing a deep learning system starting from a publication and implementing a custom layer	30 minutes	Mr. Kumara Kahatapitiya
6	Current topics (GANs, security concerns, CAPSNets)	30 minutes	Mr. Dumindu Tissera and Mr. Kumara Kahatapitiya

*Please bring your laptop. Preferred to have Tensorflow installed.*

**Date:** 5<sup>th</sup> July 2019

**Venue:** University of Moratuwa

**Time:** 1 to 4 pm

### Payments:

Participants with foreign affiliation: USD 60

Participants with Sri Lankan affiliation: LKR 3000

Register @:

<http://mercon.mrt.ac.lk/workshops.html>

WORKSHOP 3

5<sup>th</sup> International Multidisciplinary Engineering Research Conference

5<sup>th</sup>  
July 2019

University of  
Moratuwa,  
Sri Lanka