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**I verify that I am the sole author of the programs contained in this folder, except where explicitly stated to the contrary.**

*Andrea Orru* 28/08/2015

**ALL THE WORK IS BASED ON SPRATLING’S CODE. ORIGINAL VERSIONS ARE DOWNLOADABLE ON HIS WEBSITE (**dim\_squares.m **and** dim\_learn\_recip\_weights.zip **respectively):**

**http://www.inf.kcl.ac.uk/staff/mike/code.html**

# Constructive Divisive Input Modulation

dim\_squares.m

All the code for the Constructive DIM algorithm is included in this file.

# Constructive PC/BC - DIM

learn\_bars\_feedback.m

This is the file that contains the main algorithm. All the other files are simple supporting functions.

dim\_activation.m

dim\_learn.m

dim\_learn\_feedback.m

Heaviside.m

highest\_integer\_factors.m

hinton\_plot.m

pattern\_bars.m

plot\_bars.m

weight\_initialisation\_random.m