

## Complement Coding: Complement\_code.m usage

### 1) Complement\_code(data) :

- a. **data** is an array with M columns and N rows, where M is the number of features and N is the number of input records.

### 2) Complement\_code(data,min\_vect,max\_vect) :

- a. **data** is an array with M columns and N rows, where M is the number of features and N is the number of input records.
- b. **min\_vect** is a row vector of length M indicating the *minimum* allowable feature value.
- c. **max\_vect** is a row vector of length M indicating the *maximum* allowable feature value.

### ***Reference:***

Carpenter, G. A., Grossberg, S., & Rosen, D.B. (1991)

Fuzzy ART: Fast stable learning and categorization of analog patterns by an adaptive resonance system.

Neural Networks, 4, 759-771.

<http://profusion.bu.edu/techlab/modules/mydownloads/singlefile.php?cid=26&lid=10>