

DNN:	Convolutional network	
Train samples:	100000 (25000 each)	5 types: ACEP, DSCT, ECL, RRLYR, T2CEP
Validation samples:	25000 (5000 each)	
Test samples:	10000 (2500 each)	4 types: ACEP, ECL, RRLYR, T2CEP

OGLE3-based DNN, 1st test result

based on non-color coded (period) lightcurves

Test with generated dummy variable lightcurves

	ACEP	DSCT	ECL	RRLYR	T2CEP
ACEP	73.24	0.24	0.93	12.08	13.50
DSCT	0.00	0.00	0.00	0.00	0.00
ECL	0.00	1.83	97.80	0.2	0.16
RRLYR	4.23	0.16	0.4	83.89	11.31
T2CEP	3.73	0.77	1.67	5.42	88.38

Test without generated dummy variable lightcurves

	ACEP	DSCT	ECL	RRLYR	T2CEP
ACEP	76.60	0.00	0.00	12.06	11.35
DSCT	0.00	0.00	0.00	0.00	0.00
ECL	0.00	1.83	97.80	0.2	0.16
RRLYR	4.23	0.16	0.4	83.89	11.31
T2CEP	3.89	0.71	1.77	4.59	89.05

OGLE3-based DNN, 1st test result

based on color coded (period) lightcurves

Test with generated dummy variable lightcurves

	ACEP	DSCT	ECL	RRLYR	T2CEP
ACEP	0.00	0.00	0.70	0.00	99.30
DSCT	0.00	0.00	0.00	0.00	0.00
ECL	0.00	0.00	99.64	0.00	0.36
RRLYR	0.00	0.00	1.01	0.00	98.99
T2CEP	0.00	0.00	0.41	0.00	99.59

Test without generated dummy variable lightcurves

	ACEP	DSCT	ECL	RRLYR	T2CEP
ACEP	0.00	0.00	0.71	0.00	99.29
DSCT	0.00	0.00	0.00	0.00	0.00
ECL	0.00	0.00	99.64	0.00	0.36
RRLYR	0.00	0.00	1.01	0.00	98.99
T2CEP	0.00	0.00	0.35	0.00	99.65