Appendix A: Experimental Data

| ACCURACY - Overview | | Algorithm | | | | | |
|---|---|---|---|---|---|---|---|
| | | Direct | Linear | Neural | | | |
| Dataset | Linear | 1/74 | 61/74 | 22/74 | | | |
| | Circular | 0/33 | 0/33 | 30/33 | | | |
| | Composite | 0/23 | 22/23 | 21/24 | | | |
| | Periodic | 6/25 | 6/25 | 25/26 | | | |
| | Human data 1 | 6/53 | 1/53 | 23/53 | | | |
| | Human data 2 | 13/52 | 13/52 | 15/53 | | | |
| | | | | | | | |
| Optimization - # OUTPUT - r = 1, h = 5, m = 1 | | | | | | | |
| | | o=2 | o=3 | o=4 | o=5 | o=10 | |
| Dataset | Linear | 28/74 | 29/74 | 16/74 | 16/74 | 23/74 | |
| | Circular | 29/33 | 28/33 | 28/33 | 28/33 | 28/33 | |
| | Composite | 18/23 | 18/23 | 18/23 | 18/23 | 16/23 | |
| | Periodic | 13/25 | 6/25 | 9/25 | 9/25 | 9/25 | |
| | Human data 1 | 2/53 | 4/53 | 20/53 | 20/53 | 23/53 | |
| | Human data 2 | 11/52 | 11/52 | 12/52 | 11/52 | 7/52 | |
| | | | | | | | |
| | | | | | | | |
| Optimization - MEMORY - r = 1, h = 5, o = 10 | | m=1 | m=5 | m=10 | m=20 | m=30 | m=60 |
| Dataset | Linear | 23/74 | 18/75 | 18/74 | 22/74 | 12/72 | 14/70 |
| | Circular | 28/33 | 29/33 | 29/33 | 29/33 | 30/33 | 30/33 |
| | Composite | 16/23 | 17/23 | 16/23 | 17/23 | 19/23 | 19/23 |
| | Periodic | 9/25 | 11/25 | 14/25 | 15/25 | 17/25 | 6/25 |
| | Human data 1 | 23/53 | 23/53 | 23/53 | 23/53 | 23/53 | 23/53 |
| | Human data 2 | 7/52 | 6/52 | 11/52 | 15/52 | 15/52 | 14/52 |
| | | | | | | | |
| Optimization - HIDDEN NODES -m 20 -r 1 -o 10 | | h=3 | h=5 | h=10 | h=20 | h=40 | |
| Dataset | Linear | 17/73 | 22/74 | 16/73 | 6/73 | 6/73 | |
| | Circular | 28/33 | 29/33 | 30/33 | 0/33 | 0/33 | |
| | Composite | 16/23 | 17/23 | 21/24 | 0/23 | 0/23 | |
| | Periodic | 16/25 | 15/25 | 25/26 | 7/26 | 7/26 | |
| | Human data 1 | 21/52 | 23/53 | 23/53 | 22/53 | 0/53 | |
| | Human data 2 | 5/53 | 15/52 | 15/53 | 17/53 | 3/53 | |