

Table A. *Dependence between MSE, R² and number of neurons at hidden layer*

| Number of neuron | Train set | | Test set | |
|------------------|------------------|-----------------|-----------------|-----------------|
| | MSR | R ² | MSR | R ² |
| 2 | 0.004734 | 0.901742 | 0.008372 | 0.219136 |
| 3 | 0.000764 | 0.98414 | 0.001512 | 0.858966 |
| 4 | 0.0000399 | 0.999171 | 0.001433 | 0.866319 |
| 5 | 0.00019 | 0.996066 | 0.000613 | 0.942836 |
| 6 | 0.0000328 | 0.998319 | 0.000271 | 0.974695 |
| 7 | 0.0000331 | 0.998474 | 0.000276 | 0.974288 |
| 8 | 0.0000318 | 0.998534 | 0.000264 | 0.998419 |
| 9 | 0.0000331 | 0.998314 | 0.000278 | 0.97406 |
| 10 | 0.0000349 | 0.996276 | 0.000326 | 0.969554 |
| 11 | 0.0000345 | 0.922407 | 0.000333 | 0.968901 |
| 12 | 0.0000337 | 0.90865 | 0.000347 | 0.967623 |
| 13 | 0.0000347 | 0.896056 | 0.000348 | 0.967522 |
| 14 | 0.0000318 | 0.857448 | 0.000349 | 0.967482 |
| 15 | 0.0000337 | 0.718585 | 0.0005 | 0.953346 |

* **Bold** show the best model