# LIST OF NOTATIONS

| Symbols | Definition |
| --- | --- |
| $N$ | Number of nodes |
| $\bar{x}$ | The average of node value |
| $a_{ii}$ | Adjacency matrix |
| $x_i$ | Value of node $i$ |
| $x_j$ | Value of node $j$ |
| $i, j$ | Nodes $i$ and $j$ |
| $k$ | Iteration |
| $\tau$ | Continous time |
| $\omega$ | Angular frequency of clock |
| $C_i(t)$ | Clock value of node i at time-stamp t |
| $\alpha$ | Clock skew |
| $\beta$ | Clock offset |
| $W$ | General wieghting factor |
| $\hat{C}$ | Compensated clock |
| $t$ | Time |
| $\boldsymbol{A}$ | Adjacency matrix |
| $\boldsymbol{X}$ | Matrix $X$ |
| $X$ | Consensus value |
| $\gamma$ | Confidence weighting parameter |
| $\boldsymbol{L}$ | Laplacian matrix |
| $\boldsymbol{D}$ | Degree of matrix |
| $\rho$ | Weighting parameter |
| $d$ | Degree value |
| $G$ | Random connected graph |
| $\boldsymbol{I}$ | Idnode matrix |
| $\lambda$ | Eigenvalues of the Laplacian matrix |
| $\lambda_1$ | Second smallest eigenvalue |
| $\lambda_{N-1}$ | Largest eigenvalue |
| $\eta$ | Relative skew estimation value |
| $\hat{\alpha}$ | Virtual skew |
| $\hat{o}$ | Virtual offset |
| $\hat{\tau}$ | Virtual time |
| $\theta$ | Local synchronization error rate |
| $V$ | Set of vertices of graph G |
| $E$ | Set of edges of graph G |