

List of abbreviations

The following notations and abbreviations are used.

| | |
|---------------|---|
| IF | Intuitionistic fuzzy |
| FG | Fuzzy graph |
| BFS | Bipolar fuzzy set |
| <i>BFG</i> | Bipolar fuzzy graph |
| <i>mPF</i> | <i>m</i> -polar fuzzy |
| <i>mPFG</i> | <i>m</i> -polar fuzzy graph |
| <i>mPFSG</i> | <i>m</i> -polar fuzzy subgraph |
| <i>mPFS</i> | <i>m</i> -polar fuzzy set |
| <i>mPFSS</i> | <i>m</i> -polar fuzzy subset |
| <i>mPFVS</i> | <i>m</i> -polar fuzzy vertex set |
| <i>mPFE</i> | <i>m</i> -polar fuzzy edge |
| <i>mPFES</i> | <i>m</i> -polar fuzzy edge set |
| <i>mPFP</i> | <i>m</i> -polar fuzzy path |
| <i>mPFC</i> | <i>m</i> -polar fuzzy Cycle |
| <i>mPFB</i> | <i>m</i> -polar fuzzy bridge |
| <i>mPFCN</i> | <i>m</i> -polar fuzzy cut node |
| <i>mPFEN</i> | <i>m</i> -polar fuzzy end node |
| <i>mPFF</i> | <i>m</i> -polar fuzzy forest |
| <i>mPFT</i> | <i>m</i> -polar fuzzy tree |
| <i>mPFGG</i> | <i>m</i> -polar fuzzy genus graph |
| <i>mPFSE</i> | <i>m</i> -polar fuzzy strong edge |
| <i>mPFCRN</i> | <i>m</i> -polar fuzzy connectivity reducing node |
| <i>mPFCEN</i> | <i>m</i> -polar fuzzy connectivity enhancing node |

| | |
|----------------|---|
| m PFCNN | m -polar fuzzy connectivity neutral node |
| CE m PFG | Connectivity enhancing m -polar fuzzy graph |
| CR m PFG | Connectivity reducing m -polar fuzzy graph |
| N m PFG | Neutral m -polar fuzzy graph |
| Dombi m PFG | Dombi m -polar fuzzy graph |
| Dombi m PFEG | Dombi m - polar fuzzy edge graph |
| s.t. | Such that |
| Iff | If and only if |