APPENDIX 1: PUBLICATIONS / ACCEPTED SUBMISSIONS /COMMUNICATED ARTICLES


APPENDIX 2: SYMBOLS AND NOTATIONS

$Z$: The set of integers

$N$: The set $\{1, 2, 3, \ldots\}$ of positive integers

$W$: The set $\{0, 1, 2, 3, \ldots\}$ of non-negative integers

$|X|$: The number of elements in the finite set $X$

$2^V$: The set of all the subsets of the set $V$

$2^V^*$: The set of all the nonempty subsets of the set $V$

$\phi$: The empty set

$G = (V, E)$: Graph $G$ with vertex set $V$ and edge set $E$

$H = (V, E)$: Hypergraph $H$ with vertex set $V$ and edge set (or, family) $E$

$y \in A$: The element $y$ is in the set $A$

$y \notin A$: The element $y$ is not in the set $A$

$A \cup B$: The union of the sets $A$ and $B$ (i.e., the set of elements that are in $A$ or in $B$ or both)

$A \cap B$: The intersection of the sets $A$ and $B$ (i.e., the set of elements that are in $A$ and in $B$)

$A - B$: The complement of $B$ relative to $A$ i.e., the set of elements that are in $A$ but not in $B$

$\mu(G)$: The set of all the maximal cliques of a given graph $G$

$N(y)$: The open neighborhood of a vertex $y$ in a given graph $G$

$C(y)$: The closed neighborhood of a vertex $y$ in a given graph $G$