

1. Graphs on surfaces : embeddings, covers and lifts. Genus of a graph.
2. Hamiltonicity of graphs : Sufficient and necessary conditions.
3. Colorings of oriented graphs.
4. Domination vs independent domination in graphs.
5. Infinite graphs and graph limits.
6. Groups and graphs : Cayley graphs, automorphism group, group actions, transitivity.
7. Ramsey theory for graphs.
8. Nowhere-zero flows in graphs.
9. Universal graphs of graph families.
10. Intersection graphs of shapes (cycles...).
11. Complete colorings and the achromatic number.
12. Rainbow {colorings/paths/matchings...}
13. Arboricity of graphs.