1 Introduction to Graph burning

Graph burning is deterministic process on planar graphs which was created as a simplified model for spreading of information across social networks such as Facebook, Twitter or Instagram. The process was invented by Anthony Bonato (et. al) who also wrote an article "A survey of Graph Burning"[1] which summarises the most important results and conjectures in this topic. We will briefly go through the results and afterwards we will focus on concrete graphs especially grids and their burning number. Lastly we are going to mention some modification of the process, for example k-burning number (generalised burning number)[2].

[1] Bonato Anthony. 2020 A survey of graph burning https://arxiv.org/pdf/2009.10642.pdf
[2] Li, Y., Qin, X., Li, W. (2021). The generalized burning number of graphs. Applied Mathematics and Computation, https://doi.org/10.1016/j.amc.2021.126306