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Graph Burning

The spread of social contagion is an active area in social network analysis. Assume that we want to spread a message among all the users of a network. Knowing the structure of the network, we may ask how fast can we do this and what is the best strategy? Burning number is a new graph parameter which measures the speed of contagion in the underlying graph of a social network. In this talk we introduce this parameter and we explore some results that we have found on the burning number.

This is joint work with my supervisors Anthony Bonato and Jeannette Janssen.