Abstarct

This work focuses on matching model of hypergraphs. We introduce and study this new model, denoted by $\mathbf{M}(\mathrm{H},\phi,\mu)$. The items arrive one by one in a buffer and depart from it as soon as possible but by pairs or more, it depends on the structure of the hypergraph considered before. The items of departing are said to be matched. Upon arrival, an item may find several possible matches in the buffer, this indeterminacy is resolved by matching **policy**. When the sequence of arrived items is i.i.d. the sequence of buffer-content is a Markov chain, whose stability is investigated. We have a necessary and sufficient conditions for μ so that the system is stable.