@article{li2016robust,

title={On robust control invariance of Boolean control networks}, author={Li, Haitao and Xie, Lihua and Wang, Yuzhen}, journal={Automatica},

volume={68},

pages={392--396},

year={2016},

publisher={Elsevier}

}

This paper investigates the robust control invariance of Boolean control networks (BCNs) via the semi-tensor product of matrices. Firstly, based on an algebraic state space representation of BCNs, two necessary and sufficient conditions are presented to check whether or not a given set is a robust control invariant set under a given state feedback controller. Secondly, by defining a series of suitable sets, all possible state feedback gain matrices under which a given set is a robust control invariant set are characterized. An illustrative example is presented to demonstrate the obtained new results.

@article{li2017stabilization,

title={On stabilization and set stabilization of multivalued logical systems},

author={Li, Fangfei and Li, Hongyi and Xie, Lihua and Zhou, Qi}, journal={Automatica},

volume={80},

pages={41--47},

year={2017},

publisher={Elsevier}

}

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@article{liu2014controllability, title={Controllability of Boolean control networks with impulsive effects and forbidden states}, author={Liu, Yang and Chen, Hongwei and Wu, Bo}, journal={Mathematical Methods in the Applied Sciences}, volume={37}, number={1}, pages={1--9}, year={2014}, publisher={Wiley Online Library} }