



*Krzysztof Puszyński*  
*Silesian University of Technology,*  
*Faculty of Automatic Control, Electronics and Computer Science*  
*E-mail: krzysztof.puszynski@polsl.pl*

## **The interplay between stochastic gene switching and certain metronomics therapies**

In this work I present some preliminary results of the exploration of the interplay between stochastic gene switching and certain metronomics therapies. During the research a simple model of gene-mRNA-protein network subjected to the metronomic therapy was investigated. The results show that the stochastic gene switching process, especially the time expected between successive switching plays a significant role in determining the size of the responding cells fraction.

### **References**

- [1] K. Puszyński, *The interplay between stochastic gene switching and certain metronomics therapies*, *Mathematica Applicanda* 46(1) (2018), 127–136, doi=10.14708/ma.v46i1.6392.