

*11<sup>th</sup> International Conference on Applied Informatics*

*Eger, Hungary, January 29-31, 2020*

## **TRIANGULAR IMPLEMENTATION OF GAME OF LIFE**

Géza Horváth, Dávid Petrik

Faculty of Informatics, University of Debrecen, H-4028 Debrecen, Kassai út 26, Hungary,  
horvath.geza@inf.unideb.hu, david.petrik01@gmail.com

### **Abstract**

Game of Life was created by John Conway. It is a mathematical (computational) model, which simulates a changing environment consisting of cells. However, the original Game of Life is based on an environment of square shaped cells, our research is based on triangular cells. Therefore, every cell has 12 neighbors, which means the complexity of the rule-systems is greater.

In this talk we will present rule-systems, that support life. These rule-systems were found by simulating all the possible rule combinations. We are going to illustrate the whole process and the results of this research.