

# CURRICULUM VITAE

**Kocsis, Gergely**

## Contact information:

**e-mail:** kocsis.gergely@inf.unideb.hu

**Homepage:** <http://irh.inf.unideb.hu/~kocsisg/?lang=en>

**Postal Address:** H-4010 Debrecen, PO.Box. 12.

**Phone:** (36) 52 – 512 900 / 75013

## Education:

- Computer Science M.Sc. (2007)
- English-Hungarian Specialized Translator in Computer Science (2007)
- Ph.D. degree (2013)

## Workplaces:

- September 2013 – Assistant professor  
University of Debrecen, Faculty of Informatics  
Department of Informatics Systems and Networks
- 2010 September – 2013 September Lecturer  
University of Debrecen, Faculty of Informatics  
Department of Informatics Systems and networks

## Scientific award

Ph.D. student of the year 2011 – University of Debrecen

## Teaching:

### Hungarian

- Hardware Programming 1 - B.Sc. practice
- Introduction to LabView programming - B.Sc. practice
- Programming Laboratory Practice 1 - B.Sc. practice
- Programming Laboratory Practice 2 - B.Sc. practice
- Programming 1 - B.Sc. practice
- Programming 2 - B.Sc. practice
- Network Architectures and Protocols - B.Sc. lecture + practice
- Windows System Administration - B.Sc. lecture + practice

### English

- Introduction to Programming – pre-B.Sc. lecture
- Programming Languages 1 - B.Sc. practice
- Programming Languages 2 - B.Sc. practice
- Programming Technologies - B.Sc. lecture practice
- Network Architectures and Protocols - B.Sc. practice

## Membership:

Member of Debrecen Testing Board

## Research interest:

### Computer simulation of spreading phenomena

In this topic we investigate diffusion phenomena that is present in many fields of science. In the first place we use computer simulations and analytical calculations during our work. The observed phenomenon may be information spreading on a social network, the spreading of a new technology, or even an information packet on a computer network. In our work usually we use discrete time and several different network topologies. Our results are published in international journals and at high noted conferences.

## Selected publications:

- I. Varga, G. Kocsis.  
Novel model of social networks with tunable clustering coefficient  
In: Emőd Kovács, Gábor Kuster, Roland Kunkli, Tibor Tómacs  
9th International Conference on Applied Informatics: January 29–February 1, 2014 Eger, Hungary . 366 p. Eger: Eszterházy Károly Főiskola, 2015. pp. 171-176. Volume 2. (ISBN:978-615-5297-19-9)
- G. Kocsis, I. Varga,  
Agents based simulation of spreading in social-systems of temporarily active actors  
In: Was Jaroslaw, Sirakoulis Georgios Ch, Bandini Stefania (Eds )  
Cellular Automata: 11th International Conference on Cellular Automata for Research and Industry, ACRI 2014, Krakow, Poland, September 22-25, 2014, Proceedings. Cracow , Poland , 2014.09.22 -2014.09.25. New York; Berlin: Springer-Verlag, 2014. pp. 330-338. (ISBN:978-3-319-11520-7)
- G. Kocsis, F. Kun,  
Competition of information channels in the spreading of innovations  
PHYSICAL REVIEW E - STATISTICAL PHYSICS, PLASMAS, FLUIDS AND RELATED INTERDISCIPLINARY TOPICS 84: p. 2. (2011)
- G. Kocsis, F. Kun,  
The effect of network topologies on the spreading of technological developments  
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 2008:(10)  
Paper P10014. 15 p. (2008)
- F. Kun, G. Kocsis, J. Farkas,  
Cellular automata for the spreading of technologies in socio-economic systems  
PHYSICA A - STATISTICAL MECHANICS AND ITS APPLICATIONS 383: p. 660. (2007)

See full list: <https://scholar.google.hu/citations?user=7r-tnlwAAAAJ&hl=hu>