

## Research group:

## Geography and Complex Social Systems

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### Main research directions:

- » Philosophy and theory of spatial organisation of the society
- » Methodology and modelling of complex dynamic systems
- » Social networks, methods of network analysis and their applications
- » Social dynamics, evolution and self-organisation
- » Knowledge, education and innovations

### Selected publications:

- Rusnák, J., Majo, J., Fila, R. 2015. Externá poznatková báza humánnej geografie: pôvod, reflexie, implikácie. Acta Geographica Universitatis Comenianae, 59, 2, s. 99-143
- Bokor B., Bokorová S., Ondoš S., Švubová R., Lukačová Z., Hýblová M., Szemes T., Lux A. 2015. Ionome and expression level of Si transporter genes (Lsi1, Lsi2, and Lsi6) affected by Zn and Si interaction in maize. Environmental Science and Pollution Research, 22, 9, pp.6800-6811
- Paulovičová, I., Ondoš, S., Belušák, L., Kusendová, D. 2015. Urban Heartbeats (Daily Cycle of Public Transport Intensity). I. Ivan et al. eds. Geoinformatics for Intelligent Transportation. Springer International Publishing. pp. 201-212.
- Rusnák, J., Ondoš, S., Belušák, L. 2014. Priestorové koncepty a poznávanie geografickej reality. Acta Geographica Universitatis Comenianae, 58, 1, s. 81-120
- Rusnák, J., Korec, P. 2013. Alternatívne koncepcie postsocialistickej transformácie. Ekonomický časopis, 61, 4, pp. 396-418.
- Rusnák, J. 2012. Komplexita a ekonomická geografia. Geografický časopis, 64, 2, s. 181-198
- Korec, P. 2014. Lagging regions of Slovakia in the context of their competitiveness. Rozvoj Regionalny i Polityka Regionalna, 25, pp. 113-134.
- Smith, A., Rochovská, A. 2007. Domesticating neo-liberalism: Everyday lives and the geographies of post-socialist transformations. Geoforum. Vol. 38, No. 6. ISSN 0016-7185.
- Korec, P. 2005. Regionálny rozvoj Slovenska v rokoch 1989-2004: Identifikácia menej rozvinutých regiónov Slovenska. Bratislava, Geografika, 228 s

### Projects:

- » 2016-2019 VEGA 1/0745/16 "Autonomy, interdependence and interactions of spatial systems"
- » 2013-2016 APVV 0018-12 "Human geographical and demographical interactions, nodes and contradictions in time-space network"
- » 2011-2013 VEGA 1/0709/11 "Adaptability of spatial systems in post-transformation period"
- » 2011-2014 "Socio-economic Development and the Pattern of Growth and Stagnation Areas" in cooperation with Adam Mickiewicz University, Poznan

*Scientific activities at the department are organised according to research groups and research projects supported by grants. Research groups reflect the development of research priorities in human geography and demography, as well as external demand generated by public and private sectors. They reflect actual research activities of members of the department. Scientific and research works are based on their spontaneous interactions and joint effort resulting in particular research projects and scientific publications. Nevertheless, among individual research groups and their members exist intensive collaboration.*