

## Samo Drobne – Curriculum Vitae & Selected References (May 1, 2024)



Associated Professor **Samo Drobne**, PhD

Institution: [University of Ljubljana](#), [Faculty of Civil and Geodetic Engineering](#),  
[Department for Geodetic Engineering](#), [Chair of Geoinformation and Real Estate  
Cadastres](#)

Research Interest: Regional Development and Planning, Spatial Interaction  
Models, Functional Regions, Commuting, Migration, Spatial Analysis in GIS,  
Operational Research in Spatial Systems

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### Education

- 2016, Ph. D., University in Ljubljana, Faculty of Civil and Geodetic Engineering, Doctoral study Built Environment - Scientific area Spatial planning
- 1993, M. Sc., University in Ljubljana, Faculty of Architecture, Civil and Geodetic Engineering, Interdisciplinary Postgraduate Study of Physical Planning, Master of Science - Field of Physical Planning
- 1989, B. Sc., University in Ljubljana, Faculty of Architecture, Civil and Geodetic Engineering, Graduate Engineer - Field of Geodesy

### Working Experiences

- 2022- , Assoc. Prof. at Faculty of Civil and Geodetic Engineering (University in Ljubljana)
- 2017-2022, Assist. Prof. at Faculty of Civil and Geodetic Engineering (University in Ljubljana)
- 1996-2017, Senior Lecturer at Faculty of Civil and Geodetic Engineering (University in Ljubljana)
- 1995-1996, Assistant at Faculty of Maritime Studies and Transportation (University in Ljubljana)
- 1989-1995, Young Researcher at Faculty of Architecture, Civil and Geodetic Engineering (University in Ljubljana)
- 2024 (10 days), Visiting Teacher at University of Zagreb, Zagreb, Croatia
- 2024 (10 days), Visiting Teacher at University of Cartagena, Cartagena, Spain
- 2020 (1 week), Visiting Teacher at University of Zagreb, Zagreb, Croatia
- 2020 (1 week), Visiting Teacher at University of Cartagena, Cartagena, Spain
- 2018 (1 week), Visiting Teacher at University of Cartagena, Cartagena, Spain
- 2015 (1 week), Visiting Teacher at University of Cartagena, Cartagena, Spain
- 2014 (1 week), Visiting Teacher at University of Cartagena, Cartagena, Spain
- 1995 (3 months), Visiting Researcher at Hungarian Academia of Science, Pecs, Hungary

### Position

- 2022- , Assoc. Prof. for Geodesy and Geoinformatics (University of Ljubljana), teaching at Faculty of Civil and Geodetic Engineering
- 2017-2022, Assist. Prof. for Geodesy and Geoinformatics (University of Ljubljana), teaching at Faculty of Civil and Geodetic Engineering
- 2017-2021, Vice-Dean for Educational Affairs at the Faculty of Civil and Geodetic Engineering, University of Ljubljana

- 2010-2017, Senior Lecturer for Geodesy and Geoinformatics (University of Ljubljana), teaching at Faculty of Civil and Geodetic Engineering
- 2009-2013, Vice-Head of Department for Geodetic Engineering at Faculty of Civil and Geodetic Engineering (University in Ljubljana)
- 2001-2009, Head of Part Time Study of Geodesy at Faculty of Civil and Geodetic Engineering (University in Ljubljana)
- 1996-2010, Senior Lecturer for Spatial Systems (University of Ljubljana), teaching at Faculty of Maritime Studies and Transportation and at Faculty of Civil and Geodetic Engineering
- 1993-1996, Assistant for Environmental Statistics and Information Science (University of Ljubljana) teaching at Faculty of Maritime Studies and Transportation

### Professional Memberships

- 2023- , Member of the SDI Supervisory Board
- 1993- , Secretary of Section for Operation Research at Slovenian Society Informatika (SDI)
- 1993- , member of Program Committee of Section for Operation Research at Slovenian Society Informatika
- 1995- , member of Association of Geodesists of Slovenia
- 1995-2019, member of Technical Committee: Geographical Information at Standards and Metrology Institute, at Ministry of Science and Technology
- 2006-2012, member of Advisory Committee for Real-Estate Statistics at Statistical Office of Slovenia
- 1991-1998, member of Advisory Committee for Environmental Statistics at Statistical Office of Slovenia

### Teaching Experiences

- 1997-present, Statistics with Elements of Informatics
- 2010-present, Methods and Analysis of Spatial Data in GIS
- 2016-present, Geographical Information Systems
- 2018-present, Spatial Data Analysis and Spatial Analysis
- 1996-present, Computer Science
- 2010-2017, Spatial Statistics
- 1999-2012, Basics of Information and Management Systems
- 1996-2009, Spatial Systems and Cartographic Surveys
- 1996-2008, Transport and Space
- 1994-2002, GIS Models and Simulations

### Publications

Bellow, only selected publications are listed. **All references are available at**

[https://bib.cobiss.net/bibliographies/si/webBiblio/bib201\\_20240424\\_134112\\_a3449955.html](https://bib.cobiss.net/bibliographies/si/webBiblio/bib201_20240424_134112_a3449955.html)

or at

<https://cris.cobiss.net/ecris/si/en/researcher/7286>.

### Journal Papers

- ZADNIK STIRN, Lidija, DROBNE, Samo (2024). Slovenian OR Society organized its 17th International Symposium: SOR'23 in Bled, Slovenia. *IFORS news*, 19(1): 12-13, <https://ifors.org/newsletter/ifors-news-march-2024.pdf>

- BOGATAJ, Marija, BOGATAJ, David, DROBNE, Samo (2023). Planning and managing public housing stock in the silver economy. *International journal of production economics*. 260: 108848, <https://www.sciencedirect.com/science/article/pii/S0925527323000804?via%3Dihub>, DOI: 10.1016/j.ijpe.2023.108848
- ZBAŠNIK-SENEGAČNIK, Martina, DROBNE, Samo, KRISTL, Živa, KOPRIVEC, Ljudmila (2023). Odziv učencev na pogled skozi okno učilnice. *Sodobna pedagogika*. 74(140/1): 44-63, <https://www.sodobna-pedagogika.net/arhiv/nalozi-clanek/?id=2165>
- DROBNE, Samo, BOGATAJ, Marija (2022). Migration flows through the lens of human resource ageing. *Business systems research*. 13(3): 47-62, <https://sciendo.com/article/10.2478/bsrj-2022-0024>, DOI: 10.2478/bsrj-2022-0024
- PALISKA, Dejan, KERMA, Simon, DROBNE, Samo (2022). Prepoznavanje vzorcev mobilnosti obiskovalcev v Sloveniji na podlagi podatkov platforme Flickr = Identifying visitor mobility patterns in Slovenia using Flickr data. *Geodetski vestnik*, 66(2) : 175-188, <https://www.geodetski-vestnik.com/arhiv/66/2/175-188> Paliska Kerma Drobne.pdf, DOI: 10.15292/geodetski-vestnik.2022.02.175-188
- FIKFAK, Alenka, ZBAŠNIK-SENEGAČNIK, Martina, DROBNE, Samo (2022). Greenery as an element of imageability in window views. *Land*, 11(12): 1-16, <https://www.mdpi.com/2073-445X/11/12/2157>, DOI: 10.3390/land11122157.
- DROBNE, Samo, ZBAŠNIK-SENEGAČNIK, Martina, KRISTL, Živa, KOPRIVEC, Ljudmila (2022). How does greenery on a nearby façade changes perception of a window view?. *Prostor : znanstveni časopis za arhitekturo i urbanizam*, 30(1/63): 14-23, <https://hrcak.srce.hr/file/405246>
- DROBNE, Samo, ZBAŠNIK-SENEGAČNIK, Martina, KRISTL, Živa, KOPRIVEC, Ljudmila, FIKFAK, Alenka (2022). Analysis of the window views of the nearby façades. *Sustainability*, 14(1): 269, <https://www.mdpi.com/2071-1050/14/1/269/htm>, DOI: 10.3390/su14010269
- BOGATAJ, David, BOGATAJ, Marija, DROBNE, Samo (2022). Long-term care sustainable networks in ADRIAN region. *Sustainability*, 14(18): 11154, <https://www.mdpi.com/2071-1050/14/18/11154>, DOI: 10.3390/su141811154
- DROBNE, Samo, BREZOVNIK, Boštjan (2021). Functional regions as bases for provinces in Slovenia. *Lex localis*, 19(4): 1065-1094, <http://pub.lex-localis.info/index.php/LexLocalis/article/view/1752>, DOI: 10.4335/19.3.1065-1094(2021)
- DROBNE, Samo (2021). Differences in Slovenian NUTS 3 regions and functional regions by gender. *Business systems research*, 12(1): 45-59, <https://hrcak.srce.hr/file/375098>, DOI: 10.2478/bsrj-2021-0004
- FERLAN, Miran, LISEC, Anka, TEKAVEC, Jernej, JANEŽIČ, Miran, ŽNIDARŠIČ, Helena, DROBNE, Samo (2021). Izzivi razvoja informacijske rešitve v podporo upravljanju nepremičnin javnih inštitucij = Challenges of information solution development in support of public institutions' facility management. *Geodetski vestnik*, 65(4): 638-645, [http://www.geodetski-vestnik.com/65/4/gv65-4\\_ferlan.pdf](http://www.geodetski-vestnik.com/65/4/gv65-4_ferlan.pdf)
- DROBNE, Samo, GARRE, Alberto, HONTORIA, Eloy, KONJAR, Miha (2020). Comparison of two network-theory-based methods for detecting functional regions. *Business systems research*, 11(2): 21-35, <https://content.sciendo.com/view/journals/bsrj/11/2/article-p21.xml>, DOI: 10.2478/bsrj-2020-0013
- DROBNE, Samo (2020). Kakovost funkcionalne regionalizacije po metodah CURDS in Intramax na makro ravni : študija primera za Slovenijo = The quality of functional regionalisation by using CURDS and Intramax methods at the macro level : a case study for Slovenia. *Geodetski vestnik*, 64(1): 13-32, [http://www.geodetski-vestnik.com/64/1/gv64-1\\_drobne.pdf](http://www.geodetski-vestnik.com/64/1/gv64-1_drobne.pdf), DOI: 10.15292/geodetski-vestnik.2020.01.13-32

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- BOGATAJ, David, BOGATAJ, Marija, DROBNE, Samo (2020). Sustainability of an activity node in global supply chains. *Sustainability*, 12(21): 2071-1050, <https://www.mdpi.com/2071-1050/12/21/8881>, DOI: 10.3390/su12218881
- DROBNE, Samo, DREŠČEK, Urška (2019). Impact of internal migration on population redistribution in Slovenia. *Business systems research*, 10(2): 49-60, <https://www.sciendo.com/article/10.2478/bsrj-2019-017>, DOI: 10.2478/bsrj-2019-017
- TIRAN, Jernej, LAKNER, Mitja, DROBNE, Samo (2019). Modelling walking accessibility - a case study of Ljubljana, Slovenia. *Moravian geographical reports*, 27(4): 194-206, [http://www.geonika.cz/EN/research/ENMGRClanky/2019\\_4\\_Paper\\_1.pdf](http://www.geonika.cz/EN/research/ENMGRClanky/2019_4_Paper_1.pdf), DOI: 10.2478/mgr-2019-0015
- BOGATAJ, David, BOGATAJ, Marija, DROBNE, Samo (2019). Interactions between flows of human resources in functional regions and flows of inventories in dynamic processes of global supply chains. *International journal of production economics*, 209(March): 215-225, <http://www.sciencedirect.com/science/article/pii/S0925527317303341>, DOI: 10.1016/j.ijpe.2017.10.018
- DROBNE, Samo, LAKNER, Mitja (2018). The influence of the zonant effect on a system of hierarchical functional regions. *Business systems research*, 9(2): 45-54, <https://hrcak.srce.hr/file/299519>, DOI: 10.2478/bsrj-2018-0018
- DROBNE, Samo, DUMIČIĆ, Ksenija, ZADNIK STIRN, Lidija (2018). Editorial for the special issue : "Novel solutions or novel approaches in operational research". *Business systems research*, 9(2): 1-7, <https://hrcak.srce.hr/file/299515>, DOI: 10.2478/bsrj-2018-0014
- PALISKA, Dejan, FABJAN, Daša, VODOPIVEC, Robert, DROBNE, Samo (2018). Vpliv izgradnje avtocest in hitrih cest na ceno stanovanj v severozahodni Sloveniji = The impact of construction of motorways and expressways on housing prices in North-East Slovenia. *Geodetski vestnik*, 62(2): 218-234, [http://www.geodetski-vestnik.com/62/2/gv62-2\\_paliska.pdf](http://www.geodetski-vestnik.com/62/2/gv62-2_paliska.pdf), DOI: 10.15292/geodetski-vestnik.2018.02.218-234
- DROBNE, Samo (2017). Functional regions and areas: literature review according to application fields = Funkcionalne regije in območja : pregled literature po področjih uporabe. *Geodetski vestnik* 61(1): 35-57, [http://geodetski-vestnik.com/61/1/gv61-1\\_drobne.pdf](http://geodetski-vestnik.com/61/1/gv61-1_drobne.pdf), DOI: 10.15292/geodetski-vestnik.2017.01.35-57
- DROBNE, Samo, ZAVODNIK LAMOVŠEK, Alma (2017). Functional urban areas as instruments of spatial development policy at the regional level in the case of Slovenia = Funkcionalna urbana področja kao instrument politike prostornog razvoja na regionalnoj razini na primjeru Slovenije. *Prostor* 25(2,54): 200-215, [https://hrcak.srce.hr/index.php?show=clanak&id\\_clanak\\_jezik=283512&lang=en](https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=283512&lang=en)
- DROBNE, Samo, BOGATAJ, Marija (2017). The impact of public investments in facilities on the potential housing market for older persons. *Facilities* 35(7/8): 1-16, <http://www.emeraldinsight.com/doi/abs/10.1108/F-09-2016-0091>, DOI: 10.1108/F-09-2016-0091
- JANEŽ, Petra, BOGATAJ, Marija, DROBNE, Samo (2016). Impact of the real estate taxation and municipal revenue on dynamics of internal migration: Case study for city municipal of Ljubljana = Vpliv davčne nepremičninske politike in prihodkov občin na notranje selitve: Študija primera za Mestno občino Ljubljana. *Geodetski vestnik*, 60(4): 644-684, [http://geodetski-vestnik.com/60/4/gv60-4\\_janez.pdf](http://geodetski-vestnik.com/60/4/gv60-4_janez.pdf)

- DROBNE, Samo, LAKNER, Mitja (2016). Use of Constraints in the Hierarchical Aggregation Procedure Intramax. *Business systems research journal*, 7(2): 5–22, <http://hrcak.srce.hr/file/245392>
- ZAVODNIK LAMOVŠEK, Alma, VIDMAR, Katarina, DROBNE, Samo (2016). Dynamics of the economic profile at the local level : the case study of Slovenia in 2000-2013 = Gibanje gospodarskega profila na lokalni ravni : študija primera Slovenije 2000-2013. *Geodetski vestnik*, 60(3): 423–454, [http://geodetski-vestnik.com/60/3/gv60-3\\_lamovsek.pdf](http://geodetski-vestnik.com/60/3/gv60-3_lamovsek.pdf)
- PALISKA, Dejan, DROBNE, Samo, BORRUSO, Giuseppe, GARDINA, Massimo, FABJAN, Daša (2016). Passengers' airport choice and airports' catchment area analysis in cross-border Upper Adriatic multi-airport region. *Journal of Air Transport Management*, 57(October): 143–154, <http://www.sciencedirect.com/science/article/pii/S0969699715300053>
- DROBNE, Samo, LAKNER, Mitja (2016). Intramax and other objective functions: the case of Slovenia. *Moravian geographical reports*, 24(2): 12-25, [http://www.geonika.cz/EN/research/ENMGRClanky/2016\\_2\\_DROBNE.pdf](http://www.geonika.cz/EN/research/ENMGRClanky/2016_2_DROBNE.pdf)
- DROBNE, Samo, PALISKA, Dejan (2015). Average transport accessibility of the Slovenian municipalities to the nearest motorway or expressway access point = Povprečna prometna dostopnost občin Slovenije do najbližjega priključka avtoceste ali hitre ceste. *Geodetski vestnik*, 59(3): 486-519, [http://www.geodetski-vestnik.com/59/3/gv59-3\\_drobne.pdf](http://www.geodetski-vestnik.com/59/3/gv59-3_drobne.pdf)
- PALISKA, Dejan, DROBNE, Samo, BORRUSO, Giuseppe, GARDINA, Massimo, FABJAN, Daša (2015). Analysis of catchment areas of three airports in the upper Adriatic region = Analiza tržnih območij treh letališč v zgornjejadranski regiji. *Geodetski vestnik*, 59(1): 28-41, [http://www.geodetski-vestnik.com/59/1/gv59-1\\_paliska.pdf](http://www.geodetski-vestnik.com/59/1/gv59-1_paliska.pdf)
- DROBNE, Samo, BOGATAJ, Marija (2015). Optimal allocation of public service centres in the central places of functional regions. *IFAC-PapersOnLine*, 48(3): 2362-2367, <http://www.sciencedirect.com/science/article/pii/S2405896315006801>
- DROBNE, Samo, BOGATAJ, Marija (2014). Regions for Servicing Old People: Case study of Slovenia. *Business systems research journal*, 5(3): 19-36, <http://hrcak.srce.hr/file/187475>
- DROBNE, Samo, LAKNER, Mitja (2014). Which distance-decay function for migration and which one for commuting?: the case study of Slovenia. *Croatian operational research review*, 5(2): 259-272, <http://hrcak.srce.hr/ojs/index.php/corr/article/view/2726>
- DROBNE, Samo, ŽAUCER, Tadej, FOŠKI, Mojca, ZAVODNIK LAMOVŠEK, Alma (2014). Continuous built-up areas as a measure for delineation of urban settlements = Strnjenost pozidanih površin kot merilo za določanje območij mestnih naselij. *Geodetski vestnik*, 58(1): 69-102, [http://www.geodetski-vestnik.com/images/58/1/gv58-1\\_drobne1.pdf](http://www.geodetski-vestnik.com/images/58/1/gv58-1_drobne1.pdf)
- LISEC, Anka, PRIMOŽIČ, Tomaž, FERLAN, Miran, ŠUMRADA, Radoš, DROBNE, Samo (2014). Land owners' perception of land consolidation and their satisfaction with the results - Slovenian experiences. *Land use policy*, 38: 550-563, DOI: [10.1016/j.landusepol.2014.01.003](https://doi.org/10.1016/j.landusepol.2014.01.003)
- DROBNE, Samo (2014). Impact of the recession on the attractiveness of urban and rural areas of Slovenia = Vpliv recesije na privlačnost mestnih in podeželskih območij Slovenije. *Geodetski vestnik*, 58(1): 103-139, [http://www.geodetski-vestnik.com/images/58/1/gv58-1\\_drobne2.pdf](http://www.geodetski-vestnik.com/images/58/1/gv58-1_drobne2.pdf)
- DROBNE, Damjana, DROBNE, Samo (2014). Reference values for feeding parameters of isopods (Porcellio scaber, Isopoda, Crustacea). *ZooKeys*, 457: 312-322, <http://dx.doi.org/10.3897/zookeys.457.6805>
- LISEC, Anka, PIŠEK, Jernej, DROBNE, Samo (2013). Suitability analysis of land use records of agricultural and forest land for detecting land use change on the case of the Pomurska statistical region = Analiza primernosti evidence rabe kmetijskih in gozdnih zemljišč za določanje sprememb rabe zemljišč na primeru pomurske statistične regije. *Acta geographica Slovenica*, 53(1): 70-90, <http://giam.zrc-sazu.si/sites/default/files/ags53104.pdf>

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- LISEC, Anka, PRIMOŽIČ, Tomaž, PINTAR, Marina, BOVHA, Dominik, FERLAN, Miran, PROSEN, Anton, ŠUMRADA, Radoš, ČEH, Marjan, DROBNE, Samo (2013). Analiza stanja in izzivi na področju komasacij kmetijskih zemljišč v Sloveniji (The state of the art and challenges in the field of agricultural land consolidations in Slovenia; in Slovene only). *Geodetski vestnik*, 57(4): 673-690, [http://www.geodetski-vestnik.com/images/57/4/gv57-4\\_lisec.pdf](http://www.geodetski-vestnik.com/images/57/4/gv57-4_lisec.pdf)
- DROBNE, Samo, BOGATAJ, Marija (2013). Vpliv recesije na parametre kakovosti regionalnih središč in njihovo privlačnost (Impact of Recession on the Parameters of Quality of Regional Centres and their Attractiveness; in Slovene only). *Revija za univerzalno odličnost*, 2(2): A25-A42, [http://www.fos.unm.si/media/pdf/RUO\\_2013\\_22\\_Drobne\\_Bogataj1.pdf](http://www.fos.unm.si/media/pdf/RUO_2013_22_Drobne_Bogataj1.pdf)
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- DROBNE, Samo, BOGATAJ, Marija (2012). A method to define the number of functional regions: An application to NUTS 2 and NUTS 3 levels in Slovenia = Metoda opredelitve števila funkcionalnih regij: Aplikacija na ravneh NUTS 2 in NUTS 3 v Sloveniji. *Geodetski vestnik*, 56(1): 105-150, [http://www.geodetski-vestnik.com/56/1/gv56-1\\_128-150.pdf](http://www.geodetski-vestnik.com/56/1/gv56-1_128-150.pdf); in Slovene: [http://www.geodetski-vestnik.com/56/1/gv56-1\\_105-127.pdf](http://www.geodetski-vestnik.com/56/1/gv56-1_105-127.pdf)
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- DROBNE, Samo, KONJAR, Miha, LISEC, Anka (2011). Pregled funkcionalnih regij po izbranih državah (Review of functional regions in selected countries; in Slovene only). *Geodetski vestnik*, 55(3): 495-517, [http://www.geodetski-vestnik.com/55/3/gv55-3\\_495-517.pdf](http://www.geodetski-vestnik.com/55/3/gv55-3_495-517.pdf)
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- H2020 (2017-2018) - Slovenian Centre of Excellence on 3D geodata – SLICE3D, <https://slice3d.si/>
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- Improved education on environment and infrastructure (1996-1999), The Phare-Tempus structural joint European project, Denmark, The Netherlands, Sweden, Finland and Slovenia.

- Market oriented real estate policy as a challenge to environmental protection and public utilities network improvement (Alps-Adria Region project, **1993-1994**), Pécs, Hungary, Ljubljana, Slovenia.

### Research Programmes

- Earth observation and geoinformatics (P2—0406). Krištof OŠTIR, **01.01.2019–present**.
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### Slovene Projects

- Developing guidelines to improve semantic interoperability in spatial database management and geoinformatics in Slovenia. (=Razvoj usmeritev za izboljšanje semantične medopravnosti na področju upravljanja prostorskih zbirk podatkov in geoinformatike v Sloveniji, **2022-2024**). The Slovenian Research Agency, Ljubljana, Slovenia.
- Hierarchical design and financing of social infrastructure of smart silver villages (=Hierarhična zasnova in financiranje socialne infrastrukture pametnih srebrnih vasi, **2021-2024**). The Slovenian Research Agency, Ljubljana, Slovenia.
- Intergenerational coexistence in rural areas, development of social infrastructure for prevention of social exclusion and alleviating of social pressures in rural areas (=Medgeneracijsko sožitje na podeželju, razvoj socialne infrastrukture za preprečevanje socialne izključenosti ter blažitev socialnih pritiskov na podeželju, **2021-2023**). The Ministry of Agriculture, Forestry and Food of the Republic of Slovenia and the Slovenian Research Agency, Ljubljana, Slovenia.
- Creating social value with age-friendly housing stock management in lifetime neighborhoods (=Ustvarjanje družbene vrednosti s starostnikom prijaznim upravljanem stanovanjskega sklada v vseživljenjskih soseskah, **2019-2022**). The Slovenian Research Agency, Ljubljana, Slovenia.
- Multilanguage dictionary for the geoinformatics domain (=Večjezični slovar za področje geoinformatike, **2021-2023**). The Slovenian Research Agency, Ljubljana, Slovenia.
- Establishment of a multi-purpose real property database and a spatial information system for real properties owned by the Republic of Slovenia and administered by the Ministry of Justice (=Vzpostavitev večnamenske evidence podatkov o nepremičninah in prostorskega informacijskega sistema za nepremičnine v lasti Republike Slovenije in v upravljanju Ministrstva za pravosodje, **2019-2021**). The Ministry of Justice of the Republic of Slovenia and the Slovenian Research Agency, Ljubljana, Slovenia. (**Research Project Leader**: Samo Drobne)
- Assessment of the cadastral boundary stones marking for photogrammetric data acquisition using unmanned aerial vehicles, and the analysis of their effect on the positional accuracy of the point clouds and orthophoto (=Ovrednotenje različnih načinov označitve katastrskih mejnikov za fotogrametrično izmero z letalnikom in analiza njihovega vpliva na položajno točnost oblaka točk in ortofota, **2019-2021**), The Ministry of the Environment and Spatial Planning of the Republic of Slovenia and the Slovenian Research Agency, Ljubljana, Slovenia.
- Development of social infrastructure and services for community based long-term care (=Razvoj socialne infrastrukture in storitev za izvajanje dolgotrajne oskrbe v skupnosti, **2018-2021**). The Slovenian Research Agency, Ljubljana, Slovenia.

- Comprehensive demographic analysis with demographic projections for rural and urban areas (Celovita demografska analiza s projekcijami za podeželska in urbana območja, in Slovene only, **2018-2019**). Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Model of joined physical and development planning at the regional level areas (=Model povezovanja prostorskega in razvojnega načrtovanja na regionalni ravni, in Slovene only, **2016-2018**). Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Professional support to focus group 'Functional Urban Areas' as part of preparations for Spatial Development Strategy of Slovenia 2050 (=Strokovna podpora fokusni skupini 'Funkcionalna urbana območja' v sklopu priprave Strategije prostorskega razvoja Slovenije 2050, in Slovene only, **2016-2017**). Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Impact of inorganic nanoparticles on biological membranes (=Vpliv anorganskih nanodelcev na biološke membrane, **2014-2017**). The Slovenian Research Agency, Ljubljana, Slovenia.
- Analysis of the quality of the Real Estate Register and the proposal for a system to ensure data quality (=Analiza kakovosti Registra nepremičnin in predlog sistema za zagotavljanje kakovosti podatkov, in Slovene only, **2014-2015**). Ministry of the Environment and Spatial Planning of the Republic of Slovenia, The Surveying and Mapping Authority of the Republic of Slovenia, Ljubljana, Slovenia.
- Comparative analysis of the organization of the National land survey service in Slovenia with international comparisons and design strategy for the period 2015-2025 (=Primerjalna analiza ureditve državne geodetske službe v Sloveniji z mednarodno primerjavo ter zasnova strategije za obdobje 2015-2025, in Slovene only, **2014-2015**). Ministry of the Environment and Spatial Planning of the Republic of Slovenia, The Surveying and Mapping Authority of the Republic of Slovenia, Ljubljana, Slovenia.
- Study of the possibility of implementing land operations in protected areas (=Študija možnosti izvajanja zemljiških operacij na zavarovanih in varovanih območjih, in Slovene only, **2014-2015**). Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Draft of the monitoring system of spatial development - Activities of the project Attract-SEE (=Priprava predloga sistema spremljanja prostorskega razvoja - Aktivnosti v projektu Attract-SEE, in Slovene only, **2013-2014**). Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Setting up the methodology for the collecting data on the built-up land use (=Izdelava metodologije za zajem podatkov o dejanski rabi pozidanih zemljišč, in Slovene only, **2012-2013**) Ministry of the Environment and Spatial Planning of the Republic of Slovenia, The Surveying and Mapping Authority of the Republic of Slovenia, Ljubljana, Slovenia.
- Interactions between nanoparticles with different surfaces and model biological systems (=Interakcije med nanodelci z različno površino in modelnimi biološkimi sistemi, **2011-2014**). The Slovenian Research Agency, Ljubljana, Slovenia.
- Analysis of the state of art, development trends and direction for strategic spatial development of Slovenia (=Analiza stanja, razvojnih teženj ter usmeritev za strateški prostorski razvoj Slovenije, in Slovene only, **2010-2011**) Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Land consolidation and comprehensive regulation of rural areas (=Komasacije in celovito urejanje podeželskega prostora, in Slovene only, **2010-2011**), Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.

- Analysis of development resources and scenarios for modelling the functional regions (=Analiza razvojnih virov in scenarijev za modeliranje funkcionalnih regij, in Slovene only, **2008-2010**), Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Analysis of the concepts of regionalization of Slovenia with the proposal of provinces (=Analiza konceptov regionalizacije Slovenije s predlogom območij pokrajin, in Slovene only, **2008-2009**), Ministry of the Environment and Spatial Planning of the Republic of Slovenia, The Government Office of the Republic of Slovenia for Local Self-Government and Regional Policy, Ljubljana, Slovenia.
- Elaboration and evaluation of a toxicity test for engineered nanoparticles with terrestrial isopods (=Izdelava in vrednotenje testa strupenosti za nanodelce z raki enakonožci, **2007-2009**). The Slovenian Research Agency, Ljubljana, Slovenia.
- The importance of small and medium-sized towns for urban development (=Pomen majhnih in srednje velikih mest za razvoj urbanih območij, in Slovene only, **2006-2008**), Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Development of a model for the needs of regional policy (=Razvoj modela za potrebe regionalne politike, in Slovene only, **2006-2008**), Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, The Government Office of the Republic of Slovenia for Local Self-Government and Regional Policy, Ljubljana, Slovenia.
- Examination of the impact of demographic trends on spatial development (=Proučitev vpliva demografskega razvoja na prostorski razvoj, in Slovene only, **2004-2006**), Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, The Government Office of the Republic of Slovenia for Local Self-Government and Regional Policy, Ljubljana, Slovenia.
- Regional development influenced by the new Schengen border regime and by improved transportation networks: Regional development strategy for the Pomurje region, Slovenia (**2004-2006**), Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, The Government Office for Structural Policy and Regional Development, Ljubljana, Slovenia.
- Establishing a system of expert bases of defensive areas for the future use of the Ministry of Defence (=Vzpostavitev sistema strokovnih podlag obrambnih območij v perspektivni uporabi Ministrstva za obrambo, in Slovene only, **2004-2006**), Ministry of Defence & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Stress response across levels of organization in the terrestrial isopod *Porcellio scaber* and the duckweed *Lemna minor*: a mechanistic approach (=Stres in odgovor na stres pri kopenskem izopodu *Porcellio scaber* in vodni leči *Lemna minor*: mehanicističen pristop, **2004-2007**). The Slovenian Research Agency, Ljubljana, Slovenia.
- Land use by activities (=Raba prostora po dejavnostih, in Slovene only, **2002-2004**), Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Joint effects of binary mixtures of cadmium, zinc and mercury on selected test animals and plants (=Vzajemno delovanje binarnih mešanic kadmija, cinka in živega srebra na izbrane testne živali in rastline, **2001-2004**). The Slovenian Research Agency, Ljubljana, Slovenia.
- National guidelines for spatial development of regions (=Nacionalne smernice za prostorski razvoj regij, in Slovene only, **2000-2002**), Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, The Government Office for Structural Policy and Regional Development, Ljubljana, Slovenia.

- Concept of building land in the spatial plan of Slovenia and the state building land policy (=Zasnova stavbnih zemljišč v prostorskem planu Slovenije in državna stavbno zemljiška politika, in Slovene only, **2000-2002**), Ministry of Education, Science and Sport & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- Expert bases of defensive documents for the Spatial Plan of Slovenia (=Strokovne podlage s področja obrambe za Prostorski plan Slovenije, in Slovene only, **1999-2001**), Ministry of Defence & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia.
- The design of transport infrastructure for public transport - the spatial and environmental perspectives (=Zasnova prometne infrastrukture za javni potniški promet - s prostorskega in okoljskega vidika, in Slovene only, **1995-1997**), Ministry of Transportation & Ministry of the Environment and Spatial Planning of the Republic of Slovenia, Ljubljana, Slovenia

#### Editor

- SOR '23: proceedings of the 17th International Symposium on Operational Research in Slovenia (**2023**), Bled, Slovenia, September 20-22, 2023. DROBNE, Samo, ZADNIK STIRN, Lidija, KLJAJIĆ BORŠTNAR, Mirjana, POVH, Janez, ŽEROVNIK, Janez [Editors]. 1st electronic version. Ljubljana: Slovenian Society Informatika - Section for Operational Research, <https://drustvo-informatika.si/uploads/documents/6a1c2595-7d3f-4dd2-ab6c-9ed9b168c19d//SOR23Proceedings.pdf>
- 16th International Symposium on Operational Research in Slovenia (**2021**), online, September 22 - 24, 2021, DROBNE, Samo, ZADNIK STIRN, Lidija, KLJAJIĆ BORŠTNAR, Mirjana, POVH, Janez, ŽEROVNIK, Janez [Editors]. [SOR '21 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 706 pp., ISBN 978-961-6165-57-0.
- Pokrajine v Sloveniji (osnutki pokrajinske zakonodaje s pregledom pristojnosti pokrajin) (**2020**). BREZOVNIK, Boštjan, DROBNE, Samo, HOLCMAN, Borut, OPLOTNIK, Žan, TRPIN, Gorazd. Ljubljana: Državni svet Republike Slovenije. <http://www.pokrajine.si/zbornik2020>, ISBN 978-961-6453-68-4.
- Pravni in okoljski vidiki socialne infrastrukture za starejše (**2020**). BOGATAJ, Marija, DROBNE, Samo [Editors], Trebnje: Zavod Inrisk - Inštitut za raziskavo sistemov izpostavljenih rizikom; Ljubljana: Univerza v Ljubljani, Fakulteta za gradbeništvo in geodezijo. 108 pp., MEORL, serijska št. 30. ISBN 978-961-94333-5-5.
- Prostorski vidiki socialne infrastrukture za starejše (**2020**). BOGATAJ, Marija, DROBNE, Samo. Trebnje: Zavod Inrisk - Inštitut za raziskavo sistemov izpostavljenih rizikom, 122 pp., MEORL, št. 29. ISBN 978-961-94333-6-2.
- 15th International Symposium on Operational Research in Slovenia, Bled, Slovenia, September 25-27, 2019, ZADNIK STIRN, Lidija, KLJAJIĆ BORŠTNAR, Mirjana, ŽEROVNIK, Janez, DROBNE, Samo, POVH, Janez [Editors]. [SOR '19 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2019. 566 pp., ISBN 978-961-6165-55-6.
- Business Systems Research Journal, DROBNE, Samo [Guest Editor 2018]. Zagreb: Vol. 9 No. 2: Special Issue "Novel solutions or Novel approaches in Operational Research" co-published with the Slovenian Society INFORMATIKA – Section for Operational Research (SDI-SOR), <http://www.bsrijournal.org/vol-9-no-2.html>
- Uvod v socialno infrastrukturo za stanovanjsko oskrbo starostnikov, MEORL, serijska št. 25, DROBNE, Samo, GRUM, Bojan [Editors], Trebnje: Zavod Inrisk - inštitut za raziskavo sistemov izpostavljenih rizikom, 2018. 83 pp., ISBN 978-961-94333-1-7.
- 14th International Symposium on Operational Research in Slovenia, Bled, Slovenia, September 27-29, 2017, ZADNIK STIRN, Lidija, KLJAJIĆ BORŠTNAR, Mirjana, ŽEROVNIK, Janez, DROBNE, Samo [Editors]. [SOR '17 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2017. 566 pp., ISBN 978-961-6165-50-1.

- 13th International Symposium on Operational Research in Slovenia, Bled, Slovenia, September 23-25, 2015, ZADNIK STIRN, Lidija, ŽEROVNIK, Janez, KLJAJIĆ BORŠTNAR, Mirjana, DROBNE, Samo [Editors]. [SOR '15 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2015. 562 pp., ISBN 978-961-6165-45-7.
- 12th International Symposium on Operational Research in Slovenia Dolenjske Toplice, Slovenia, September 25-27, 2013, ZADNIK STIRN, Lidija, DROBNE, Samo, LISEC, Anka, ŽEROVNIK, Janez, POVH, Janez [Editors]. [SOR '13 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2013. 390 pp., ISBN 978-961-6165-40-2.
- 11th International Symposium on Operational Research in Slovenia Dolenjske Toplice, Slovenia, September 28-30, 2011, ZADNIK STIRN, Lidija, ŽEROVNIK, Janez, POVH, Janez, DROBNE, Samo, LISEC, Anka [Editors]. [SOR '11 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2011. 346 pp., ISBN 978-961-6165-35-8.
- 10th International Symposium on Operational Research in Slovenia Nova Gorica, Slovenia, September 23-25, 2009, ZADNIK STIRN, Lidija, ŽEROVNIK, Janez, DROBNE, Samo, LISEC, Anka [Editors]. [SOR '09 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2009. 584 pp., ISBN 978-961-6165-30-3.
- 9th International Symposium on Operational Research in Slovenia Nova Gorica, Slovenia, September 26-28, 2007, ZADNIK STIRN, Lidija, DROBNE, Samo, [Editors]. [SOR '07 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2007. 460 pp., ISBN 978-961-6165-25-9.
- 8th International Symposium on Operational Research in Slovenia Nova Gorica, Slovenia, September 28-30, 2005, ZADNIK STIRN, Lidija, DROBNE, Samo, [Editors]. [SOR '05 proceedings](#). Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2005. 426 pp., ISBN 961-6165-20-8.
- ... and Proceedings of previous symposia SOR'97 – SOR03.
- ZADNIK STIRN, Lidija, INDIHAR ŠTEMBERGER, Mojca, FERBAR TRATAR, Liljana, DROBNE, Samo [Editors]. *Selected decision support models for production and public policy problems*, (SDI-SOR series, no. 3). Ljubljana: Slovensko društvo Informatika, Sekcija za operacijske raziskave: = Slovenian Society Informatika, Section of Operational Research, 2005. XVII, 243 pp., ISBN 961-6165-19-4.

#### Invited Lecturers

- DROBNE, Samo (2023). Strategic Planning in GIS in Slovenia & Spatial Analyses in GIS for Strategic Planning, 01.07.2023, **University of Zagreb**, Faculty of Architecture, Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia.
- DROBNE, Samo (2023). Spatial Analysis for Planning: Case Studies in Slovenia, 21.10.2023, **University of Zagreb**, Faculty of Architecture, Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia.
- DROBNE, Samo (2022). Strategic Planning in GIS in Slovenia & Spatial Analyses in GIS for Strategic Planning, 19.02.2022, **University of Zagreb**, Faculty of Architecture, Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia.
- DROBNE, Samo (2022). Spatial Analysis for Planning: Case Studies in Slovenia, 11.06.2022, **University of Zagreb**, Faculty of Architecture, Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia.
- DROBNE, Samo (2020). Visiting Fellow at a foreign university, **University of Zagreb**, Faculty of Architecture, Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia, 16.09.–18.12.2020.

- DROBNE, Samo (2019). Strategic Planning in GIS in Slovenia, 01.03.2019, **University of Zagreb**, Faculty of Architecture, Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia.
- DROBNE, Samo (2019). Spatial Analyses in GIS for Strategic Planning, 01.03.2019, **University of Zagreb**, Faculty of Architecture, Depart Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia.
- DROBNE, Samo (2018). Spatial analyses in GIS for town planning, 04.04.2018, **University of Zagreb**, Faculty of Architecture, Depart Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia.
- DROBNE, Samo (2017). Monitoring of Functional (Urban) Regions in Slovenia, 01.02.2017, **Savitribai Phule Pune University**, Department of Geography, Pune, India.
- DROBNE, Samo (2015). Functional regions defined by regional urban centres of Slovenia, 16.06.2015, **Chinese Academy of Sciences**, Institute of Urban Environment, Xiamen, China.
- DROBNE, Samo (2015). Urban and regional planning and development based on spatial interaction models, 15.06.2015, **Xiamen University**, College of the Environment and Ecology, Xiamen, China.
- DROBNE, Samo (2015). Functional (urban) regions and servicing: Case study of servicing the elderly in Slovenia, 26.02.2015, **Universidad Politecnica de Cartagena**, Departamento de Economía de la Empresa, Cartagena, Spain, contribution at workshop for PhD students and research staff entitled by "City Logistics".
- DROBNE, Samo (2015). Modelling and evaluating the functional regions: Case study of Slovenia, 24.-25.02.2015, **Universidad Politecnica de Cartagena**, Departamento de Economía de la Empresa, Cartagena, Spain, Teaching staff mobility - STA Erasmus 2014/2015.
- DROBNE, Samo (2014). Modelling and evaluating the functional regions: Case study of Slovenia, 04.06.2014, **Universidad Politecnica de Cartagena**, Departamento de Economía de la Empresa, Cartagena, Spain, Teaching staff mobility - STA Erasmus 2013/2014.
- DROBNE, Samo (2012). Evaluating functional regions. 27.09.2012, **14th International conference on operational research KOI'12**, Trogir, Croatia, **Plenary Talk**.
- DROBNE, Samo (2009). Research on spatial interaction models and functional areas - seeking for cooperation. 06.08.2009, **Hafen City University Hamburg**, Hamburg, Germany, contribution to research seminar entitled by "Public Participation Research Meeting".

#### Long-Term Visit

- DROBNE, Samo (2020). **University of Zagreb, Faculty of Architecture**, Department of Urban Planning, Spatial Planning and Landscape Architecture, Zagreb, Croatia, 16.09.–18.12.2020.

#### Short-Term Visits

- DROBNE, Samo (2024). **Universidad Politecnica de Cartagena**, Departamento de Economía de la Empresa, Cartagena, Spain, 04.03.–13.03.2024, Teaching staff mobility, STA Erasmus+ 2023/2024.
- DROBNE, Samo (2020). **Universidad Politecnica de Cartagena**, Departamento de Economía de la Empresa, Cartagena, Spain, 17.02.–22.02.2019, Teaching staff mobility, STA Erasmus+ 2019/2020.
- DROBNE, Samo (2019). **Technical University in Munich**, Department of Civil, Geo and Environmental Engineering, Munich, Germany, 28.–29.03.2019.
- DROBNE, Samo (2019). **Universidad Politecnica de Cartagena**, Departamento de Economía de la Empresa, Cartagena, Spain, 15.02.–20.02.2019, Teaching staff mobility, STA Erasmus+ 2018/2019.

- DROBNE, Samo (2017). **Savitribai Phule Pune University**, Department of Geography, Pune, India, 01.02.2017.
- DROBNE, Samo (2016). **Iowa State University**, College of Design, Community and Regional Planning Department, Ames, Iowa, 24.10.–02.11.2016, Bilateral Project SI-USA.
- DROBNE, Samo (2016). **Chinese Academy of Sciences**, Institute of Urban Environment, Xiamen, Xiamen, China, 30.08.2016.
- DROBNE, Samo (2016). **Xiamen University**, College of the Environment and Ecology, Xiamen, China, 21.08.–02.09.2016.
- DROBNE, Samo (2015). **Chinese Academy of Sciences**, Institute of Urban Environment, Xiamen, Xiamen, China, 16.06.2015.
- DROBNE, Samo (2015). **Xiamen University**, College of the Environment and Ecology, Xiamen, China, 29.05.–17.06.2015.
- DROBNE, Samo (2015). **Universidad Politecnica de Cartagena**, Departamento de Economia de la Empresa, Cartagena, Spain, 21.02.–03.03.2015, Teaching staff mobility - STA Erasmus 2014/2015.
- DROBNE, Samo (2014). **Universidad Politecnica de Cartagena**, Departamento de Economia de la Empresa, Cartagena, Spain, 04.–13.06.2014, Teaching staff mobility - STA Erasmus 2013/2014.

#### Awards

- **2007**, Award of the [Slovenian Society Informatica](#) for development of international co-operation in the field of operation research
- **2022**, Golden Badge of Honour of the [Slovenian Society Informatica](#) for extensive research and teaching activities in the field of operations research and geoinformatics

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