

# Open Science in View of Scientific Journal Geodetski vestnik

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# The Faculty of Civil and Geodetic Engineering, University of Ljubljana



University of Ljubljana  
Faculty of Civil and Geodetic Engineering



## Missions:

- undergraduate and postgraduate education,
- providing of basic, applied and development research,
- **the transfer of knowledge** into practice and professional consulting – **by supporting of scientific journals:**
  - **Geodetski vestnik** - Journal of the Association of Surveyors of Slovenia,
  - **Gradbeni vestnik**,
  - **Acta hydrotechnica.**

# Gains of Open Access

## **The authors**

- increase the visibility of scientific publication
- increase the citation (make their higher citation more probable),
- increased scientific impact,
- and protection of copyright on ideas.

**The users** gain immediate access to the results of scientific and research works at the global level.

**Journals gain better value as competitive advantage.**

(Harnad and Brody, 2004; Antelman, 2004; Kurtz et al., 2005; Moed, 2007; Xia et al., 2011, Koler-Povh et al. 2014).

# Open Publishing is Required

## International:

- EC – since 2008 – for publications from social sciences,
- EC - since 2014 - for publications of all subject fields, including technical and natural sciences:

**Grant Agreement for the Horizon 2020**, authors are required to ensure open access to publications from projects financed by European Commission, regardless of publishers' policy (Chapter 29.2a).

## Slovenia:

**National strategy of open access to scientific publications and research data in Slovenia 2015-2020** (in September 2015 was adopted).

# Geodetski vestnik

- The leading Slovenian scientific and professional journal in geodesy, land surveying and geoinformatics,
- which has been recognized also as one of leading internationally oriented journal in the field of geodesy  
(by Stojanovski, Frančula and Lapaine, 2015).
- published since 1953, regularly since 1959, as **OA since 2004**,
- by the Association of Surveyors of Slovenia,
- published quarterly, around 25 reviewed articles per year,
- Peer-reviewed articles are published in Slovenian, in English, or in English and Slovenian languages.

# Type of Articles

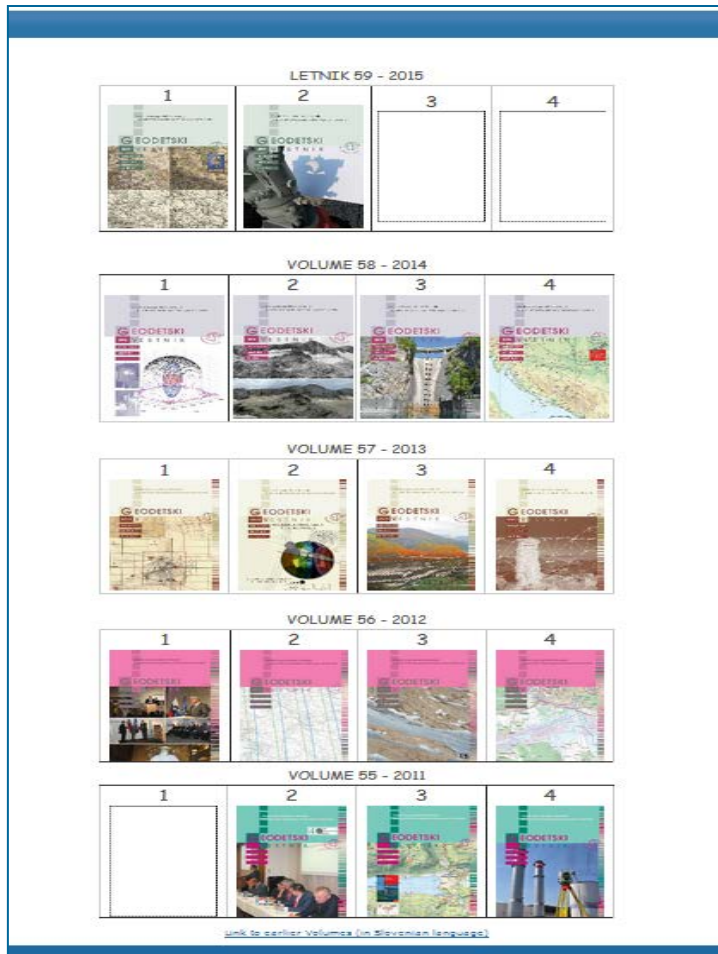
- publishes scientific and professional peer-reviewed papers,
- professional discussions,
- results of theses and scientific works,
- reports of the state surveying and mapping authority,
- professional informative articles,
- polemics, documents of the association, communications to members,
- memorial and similar records,
- advertisements and tenders.

# Editorial's Activities for better Recognition of GV

- Increase of the quality – double blind peer-review,
- Open access to full-text papers at the journal's website since 2004 (backward to 2000),
- Indexation in many information systems and databases:
  - Cobiss.si,
  - DOAJ,
  - WoS - SSCI,
  - DRUGG,
  - CrossRef,
  - GEOBASE, GeoRef, ICONDA,
  - In future: Scopus, Proquest, EBSCO...
- Involving of librarian as an expert of scientific communication.

# GV and its Web Site (2005, backward to 2000-)

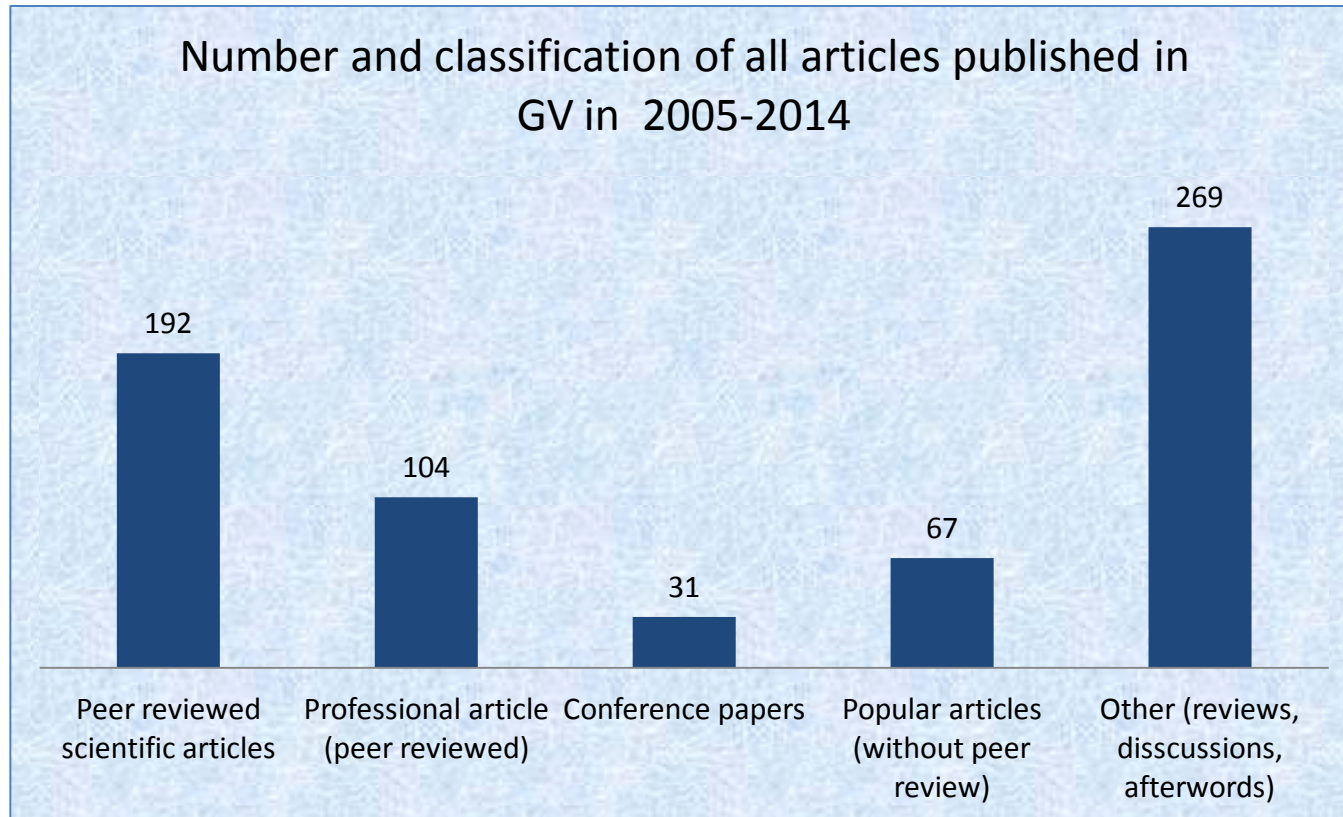
<http://www.geodetski-vestnik.com/en/>



The image shows the website interface for Geodetski Vestnik. The header includes the logo "GEODETSKI VESTNIK" and a navigation menu with links: Home, Current Issue, Previous Issues, Info, Editorship, Links, and Instructions for authors. The main content area displays the current issue: "Geodetski vestnik Vol. 59 (2015), No. 2". Below this, there is a section for "Scientific and professional articles - In English". The first article is titled "GEODETSKI VESTNIK AND ITS PATH TO BETTER INTERNATIONAL RECOGNITION" by Teja Koler-Povh, Anka Lisec, with DOI: 10.15292/geodetski-vestnik.2015.02.289-319. The second article is "LAND CONSOLIDATION APPRAISAL OF AGRICULTURAL LAND IN THE GIS ENVIRONMENT" by Stojanka Branković, Ljiljana Parezanović, Dragiša Simović, with DOI: 10.15292/geodetski-vestnik.2015.02.320-334. The third article is "GEOGRAPHICAL DATA SETS FITNESS OF USE EVALUATION" by Elzbieta Bielecka, with DOI: 10.15292/geodetski-vestnik.2015.02.335-348. Below this, there is a section for "Scientific and professional articles - Only abstracts are available in English". The first article is "IMPACT OF THE GRID CELL SIZE AND INTERPOLATION METHODS ON EARTHWORK VOLUME CALCULATION" by Tilen Urbančič, Vid Grahor, Božo Koler, with DOI: 10.15292/geodetski-vestnik.2015.02.231-245. The second article is "EXTRACTION OF POWER LINES FROM AIRBORNE AND TERRESTRIAL LASER SCANNING DATA USING THE HOUGH TRANSFORM" by Dejan Grigillo, Samo Ozvaldič, Anja Vrečko, Mojca Kosmatin Fras, with DOI: 10.15292/geodetski-vestnik.2015.02.246-261. The third article is "BENCHMARKING LAND ADMINISTRATION SYSTEMS" by Božena Lipej, with DOI: 10.15292/geodetski-vestnik.2015.02.267-274. The fourth article is "DETERMINATION OF PRIME AGRICULTURAL LAND CONSERVATION AREAS - A METHODOLOGICAL ATTEMPT" by Nadja Penko Seidl, Mojca Golobič, with DOI: 10.15292/geodetski-vestnik.2015.02.275-288.

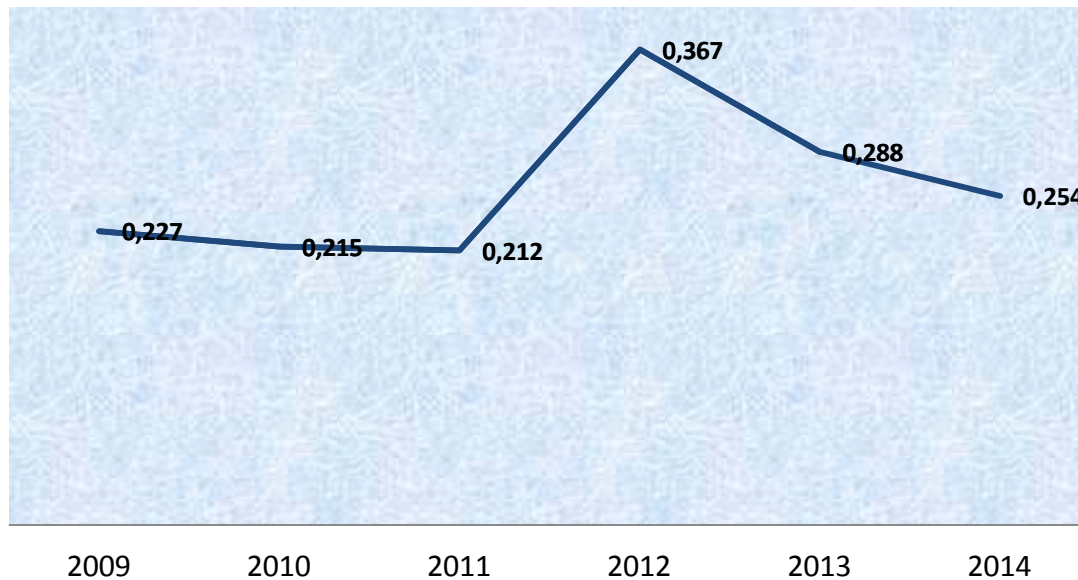


# GV & Cobiss.si (1994, backward to 1980-)



# GV & Web of Science –WoS (2007-)

**Impact factor (IF) of Geodetski vestnik  
2009-2013**



Indexed in

**Social Sciences Citation  
Index - SSCI,**

subject category:

**Geography, Planning  
and Development,**

but not

Earth and Planetary  
Sciences (misc.)

or

Geosciences  
(miscellaneous).

**First indexed in 2009.**

## GV & DOAJ (2006, backward to 2001-)

- DOAJ - Directory of Open Access Journals (<http://www.doaj.org/>) indexes and provides access to scientific and professional peer-reviewed journals.
- At the end of year 2014 it included more than 10.000 journals from 135 countries, 6.000 journals among them provide open access on article level, so does Geodetski vestnik.
- GV was one of 8 Slovenian journals in DOAJ in 2006.
- In 2014: 31 Slovenian journals.

share 10 order by ... relevance search all Geodetski vestnik

- Journals vs Articles

Journals (1)

Articles (394)

+ Subject

+ Publisher

+ Full Text language



261 – 270 of 395



- Geodezija v geotehniki : Geodesy in Geotechnics**  
*Božo Koler, Dušan Kogoj, Tomaž Ambrožič, Simona Savšek, Oskar Sterle, Bojan Stopar*  
**Geodetski Vestnik**. 2010;54(1):31-43  
[Abstract](#) | [Full Text](#)
- Nekatera razmišljanja o prostorskih integracijskih procesih : Some considerations on spatial integration processes**  
*Jasenska Kranjčević*  
**Geodetski Vestnik**. 2007;51(2):264-269  
[Abstract](#) | [Full Text](#)
- Izračun položaja GPS-satelita iz podatkov preciznih efemerid : GPS-orbit computation from precise ephemeris data**  
*Bojan Stopar, Polona Pavlovčič Prešeren*  
**Geodetski Vestnik**. 2005;49(2):177-190  
[Abstract](#) | [Full Text](#)
- Podatki iz višin danes in jutri**  
*Janez Oven*  
**Geodetski Vestnik**. 2001;45(3):473-479  
[Abstract](#) | [Full Text](#)
- Izkušnje geodeta na področju prostorskega načrtovanja v Sloveniji v letih 1987–2007 : Experience of a geodesist in the field of spatial planning in Slovenia during the period 1987-2007**  
*Jože Kos Grabar*  
**Geodetski Vestnik**. 2007;51(2):377-382  
[Abstract](#) | [Full Text](#)
- Modeliranje ionosferske refrakcije za izboljšavo absolutnega gnss-položaja s kodnimi instrumenti: priprava na 24. sončev cikel ; Ionospheric refraction modeling for better autonomous gnsscode positioning: in preparation of solar cycle 24**  
*Oskar Sterle, Bojan Stopar, Polona Pavlovčič Prešeren*  
**Geodetski Vestnik**. 2013;57(1):9-24  
[Abstract](#) | [Full Text](#)



# GV & DRUGG (2013, backward to 2000-)

- DRUGG ([drugg.fgg.uni-lj.si/](http://drugg.fgg.uni-lj.si/))

Documents type	dec.11	dec.12	dec.13	dec.14
Theses	1.000	1.444	1.763	2104
Monographs	0	31	39	58
Papers	0	0	227	280
<b>Total</b>	<b>1.000</b>	<b>1.475</b>	<b>2.029</b>	<b>2.442</b>

# GV & The DRUGG Repository

([drugg.fgg.uni-lj.si/](http://drugg.fgg.uni-lj.si/))

<p>Univerza v Ljubljani Fakulteta za gradbeništvo in geodezijo</p>  <p>Jamova cesta 2 1000 Ljubljana, Slovenija <a href="http://www3.fgg.uni-lj.si/">http://www3.fgg.uni-lj.si/</a></p> <p><b>DRUGG</b> – Digitalni repozitorij UL FGG <a href="http://drugg.fgg.uni-lj.si/">http://drugg.fgg.uni-lj.si/</a></p> <p>V zbirki je izvirna različica izdajatelja.</p> <p>Prosimo, da se pri navajanju sklicujete na bibliografske podatke, kot je navedeno:</p>	<p>University of Ljubljana Faculty of Civil and Geodetic Engineering</p>  <p>Jamova cesta 2 SI – 1000 Ljubljana, Slovenia <a href="http://www3.fgg.uni-lj.si/en/">http://www3.fgg.uni-lj.si/en/</a></p> <p><b>DRUGG</b> – The Digital Repository <a href="http://drugg.fgg.uni-lj.si/">http://drugg.fgg.uni-lj.si/</a></p> <p>This is a publisher's version PDF file.</p> <p>When citing, please refer to the publisher's bibliographic information as follows:</p>
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Urbančič, T., Koler, B., Stopar, B., Kosmatin Fras, M. 2014. Analiza kakovosti določitve parametrov krogle pri terestičnem laserskem skeniranju = Quality analysis of the sphere parameters determination in terrestrial laser scanning. *Geodetski vestnik* 58, 1: 11-27.

DOI: <http://dx.doi.org/10.15292/geodetski-vestnik.slv.2014.01.011-027>  
<http://drugg.fgg.uni-lj.si/4706/>

Datum arhiviranja / Archiving Date: 15-07-2014

Urbančič, T., Koler, B., Stopar, B., Kosmatin Fras, M. 2014. Analiza kakovosti določitve parametrov krogle pri terestičnem laserskem skeniranju = Quality analysis of the sphere parameters determination in terrestrial laser scanning. *Geodetski vestnik* 58, 1: 11-27.

DOI: <http://dx.doi.org/10.15292/geodetski-vestnik.slv.2014.01.011-027>  
<http://drugg.fgg.uni-lj.si/4706/>

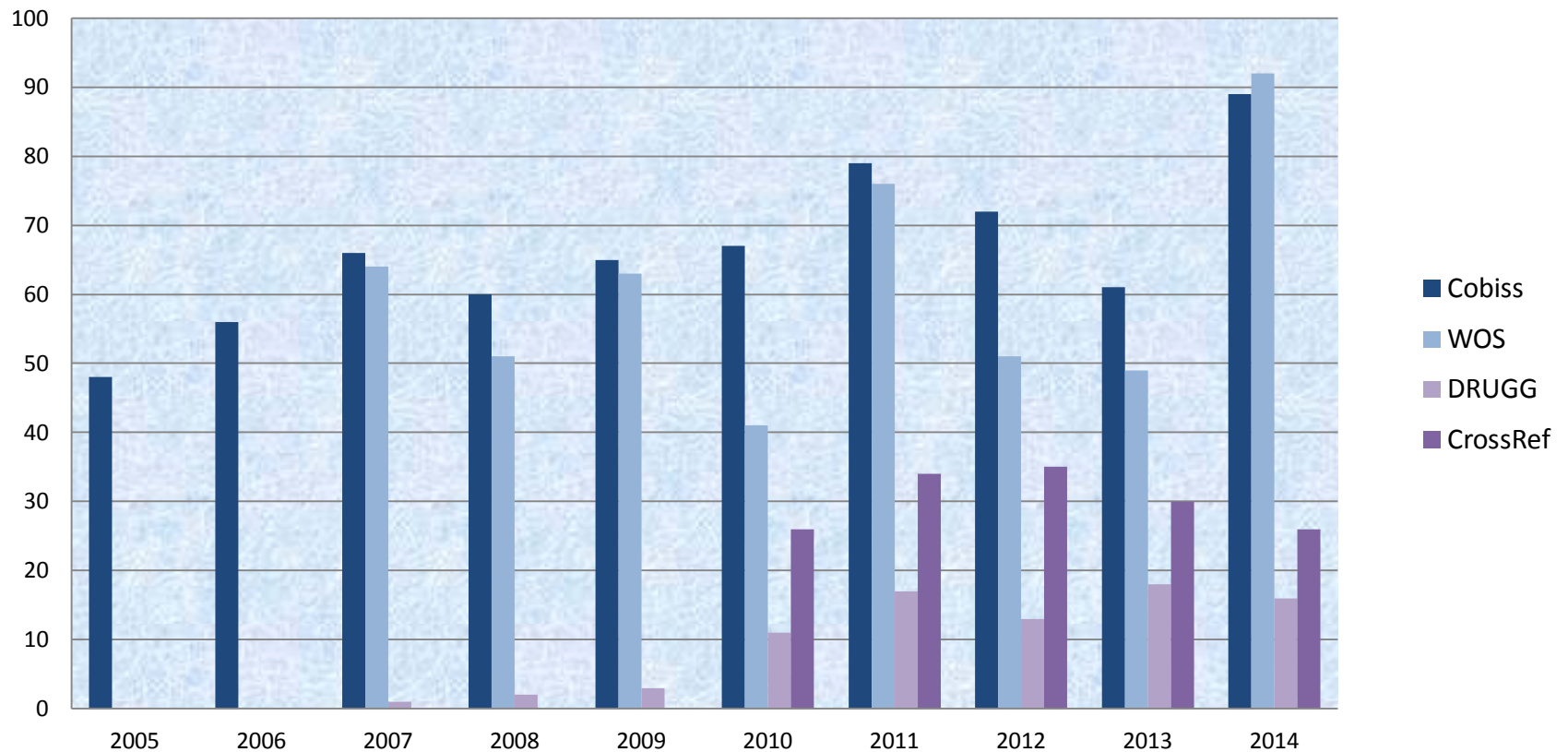
Datum arhiviranja / Archiving Date: 15-07-2014

## GV & CrossRef (2014, backward to 2010-)

- The DOI identifier was assigned to all peer reviewed articles published from 2010 onwards (143 articles):
  - by registering all these articles in the CrossRef system,
  - by archiving their metadata.
- The Geodetski vestnik's website <http://www.geodetski-vestnik.com/en/> was appropriately updated.
- The DOI identifier was added in COBISS and DRUGG's frontpage as well.

# The Importance of Indexation in Several Systems

Differences in no. of indexation in 4 systems





# The Research

- Articles, published in Geodetski vestnik since 1970-.
- Citation in the period 2009–2013.
- Data base: WoS.

## Aim & Scope:

- To recognize the actual scientific impact and value of GV,
- To predict the future of GV.

## The hypothesis:

- The citation of GV and its articles is higher in JCR year 2013 than 2009.

# GV as Cited Journal

2011		All Journals	Yrs	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	Rest
	0.212	GEOD VESTN	32	3	6	4	9	1	2	0	1	2	1	3
	<b>0.484</b>	<b>CENT EUR J OPER RES</b>	1	0	0	0	0	0	0	0	0	0	0	1
	<b>0.082</b>	<b>GRADEVINAR</b>	1	0	0	0	1	0	0	0	0	0	0	0
	0.317	LEX LOCALIS	1	0	1	0	0	0	0	0	0	0	0	0
	1.009	MACH VISION APPL	1	0	0	0	0	0	0	0	1	0	0	0
	1.098	PHOTOGRAMM REC	1	0	0	0	0	0	0	1	0	0	0	0
	<b>Total</b>	<b>7</b>	<b>37</b>	<b>3</b>	<b>7</b>	<b>4</b>	<b>10</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>4</b>
JCR Impact	Citing Journal		Cited Year											
2012		All Journals	Yrs	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	Rest
	0.367	GEOD VESTN	42	0	7	10	2	9	7	1	0	2	1	3
		ACTUAL PROBL ECON	3	0	1	2	0	0	0	0	0	0	0	0
	0.972	INZ EKON	2	0	0	0	0	2	0	0	0	0	0	0
	<b>0.347</b>	<b>ACTA GEOD GEOPHYS HU</b>	1	0	0	0	0	0	0	1	0	0	0	0
	0.049	DVE DOMOVINI	1	0	0	1	0	0	0	0	0	0	0	0
	1.138	INT J REMOTE SENS	1	0	1	0	0	0	0	0	0	0	0	0
	<b>0.517</b>	<b>SENSOR LETT</b>	1	0	0	0	0	1	0	0	0	0	0	0
	<b>0.290</b>	<b>SURV REV</b>	1	0	0	0	0	1	0	0	0	0	0	0
	<b>Total</b>	<b>8</b>	<b>52</b>	<b>0</b>	<b>9</b>	<b>13</b>	<b>2</b>	<b>13</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>3</b>
JCR Impact	Citing Journal		Cited Year											
2013		All Journals	Yrs	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	Rest
	0.288	GEOD VESTN	48	1	4	12	5	3	8	7	2	0	1	5
	0.750	ACTA GEOGR SLOV	4	0	1	1	0	0	1	0	1	0	0	0
	3.134	LAND USE POLICY	4	0	0	0	0	2	0	1	1	0	0	0
	<b>0.577</b>	<b>SURV REV</b>	4	0	0	0	1	0	0	2	0	0	0	1
	2.696	HYDROL PROCESS	1	0	1	0	0	0	0	0	0	0	0	0
	0.995	FUTURES	1	0	1	0	0	0	0	0	0	0	0	0
	2.068	ADV ENG INFORM	1	0	0	0	0	0	0	0	1	0	0	0

JCR 2009	Impact	Citing Journal	Cited Year											
			Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
		All Journals	Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	0.227	GEOD VESTN	33	0	10	4	6	3	0	6	1	0	3	0
	<b>0.288</b>	ACTA GEOD GEOPHYS HU	2	0	1	0	0	0	0	0	0	0	0	1
		LEX LOCALIS	2	0	2	0	0	0	0	0	0	0	0	0
	<b>0.714</b>	ACTA GEOGR SLOV	1	0	0	0	0	0	0	0	0	1	0	0
	1.110	PHOTOGRAMM ENG REM S	1	0	0	0	0	0	0	1	0	0	0	0
	<b>Total</b>	<b>5</b>	<b>39</b>	<b>0</b>	<b>13</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>
JCR 2010	Impact	Citing Journal	Cited Year											
			Yrs	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	Rest
		All Journals	Yrs	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	Rest
	0.215	GEOD VESTN	38	5	4	6	7	3	2	3	5	0	0	3
	<b>0.346</b>	ACTA GEOGR SLOV	3	0	2	1	0	0	0	0	0	0	0	0
		10 INT MULT SCIENT	1	0	1	0	0	0	0	0	0	0	0	0
	2.139	BRIT J EDUC TECHNOL	1	1	0	0	0	0	0	0	0	0	0	0
	<b>0.678</b>	ENVIRON EARTH SCI	1	0	0	0	0	0	0	0	0	0	0	1
	1.016	TURK ONLINE J EDUC T	1	1	0	0	0	0	0	0	0	0	0	0
	<b>Total</b>	<b>6</b>	<b>45</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>4</b>
JCR 2011	Impact	Citing Journal	Cited Year											
			Yrs	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	Rest
		All Journals	Yrs	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	Rest
	0.212	GEOD VESTN	32	3	6	4	9	1	2	0	1	2	1	3
	<b>0.484</b>	CENT EUR J OPER RES	1	0	0	0	0	0	0	0	0	0	0	1
	<b>0.082</b>	GRADEVINAR	1	0	0	0	1	0	0	0	0	0	0	0
	0.317	LEX LOCALIS	1	0	1	0	0	0	0	0	0	0	0	0
	1.009	MACH VISION APPL	1	0	0	0	0	0	0	0	1	0	0	0
	1.098	PHOTOGRAMM REC	1	0	0	0	0	0	0	1	0	0	0	0
	<b>Total</b>	<b>7</b>	<b>37</b>	<b>3</b>	<b>7</b>	<b>4</b>	<b>10</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>4</b>
JCR 2012	Impact	Citing Journal	Cited Year											
			Yrs	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	Rest
		All Journals	Yrs	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	Rest
	0.367	GEOD VESTN	42	0	7	10	2	9	7	1	0	2	1	3
		ACTUAL PROBL ECON	3	0	1	2	0	0	0	0	0	0	0	0
	0.972	INZ EKON	2	0	0	0	0	2	0	0	0	0	0	0
	<b>0.347</b>	ACTA GEOD GEOPHYS HU	1	0	0	0	0	0	0	1	0	0	0	0
	0.049	DVE DOMOVINI	1	0	0	1	0	0	0	0	0	0	0	0
	1.138	INT J REMOTE SENS	1	0	1	0	0	0	0	0	0	0	0	0
	<b>0.517</b>	SENSOR LETT	1	0	0	0	0	1	0	0	0	0	0	0
	<b>0.290</b>	SURV REV	1	0	0	0	0	1	0	0	0	0	0	0
	<b>Total</b>	<b>8</b>	<b>52</b>	<b>0</b>	<b>9</b>	<b>13</b>	<b>2</b>	<b>13</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>3</b>
JCR 2013	Impact	Citing Journal	Cited Year											
			Yrs	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	Rest
		All Journals	Yrs	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	Rest
	0.288	GEOD VESTN	48	1	4	12	5	3	8	7	2	0	1	5
	0.750	ACTA GEOGR SLOV	4	0	1	1	0	0	1	0	1	0	0	0
	3.134	LAND USE POLICY	4	0	0	0	0	2	0	1	1	0	0	0
	<b>0.577</b>	SURV REV	4	0	0	0	1	0	0	2	0	0	0	1
	2.696	HYDROL PROCESS	1	0	1	0	0	0	0	0	0	0	0	0
	0.995	FUTURES	1	0	1	0	0	0	0	0	0	0	0	0
	2.068	ADV ENG INFORM	1	0	0	0	0	0	0	0	1	0	0	0
	0.600	LEX LOCALIS	1	0	0	0	0	1	0	0	0	0	0	0
	0.124	SCRIPTA NOVA	1	0	0	1	0	0	0	0	0	0	0	0
	<b>0.892</b>	J APPL REMOTE SENS	1	0	0	0	1	0	0	0	0	0	0	0
	<b>Total</b>	<b>10</b>	<b>66</b>	<b>1</b>	<b>7</b>	<b>14</b>	<b>7</b>	<b>6</b>	<b>9</b>	<b>10</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>6</b>

# GV and its Citation

- In the period 2009 - 2013 the number of JCR journals that cited Geodetski vestnik has grown from 5 (in JCR year 2009) to 10 (in JCR year 2013).
- The articles published in these journals cited the GV articles in 2013 twice as much as in 2009, in JCR year 2009 = 39 times, in JCR year 2013 = 66 times.
- Among the citing journals, the share of international foreign journals has increased each year.
- The share of journals from SSCI is always higher than that of journals from SCIE, which confirms the decision of ISI/Thomson Reuters to classify the Geodetski vestnik in SSCI.
- The higher ranked JCR journals are frequently presented in late period (2013) as in 2009.

BUT:

- The level of self-citations of GV is of concern. Namely, it is high in the whole period (more than 80% of all citations), when finally in JCR year 2013 it dropped to 73%.

# Conclusions

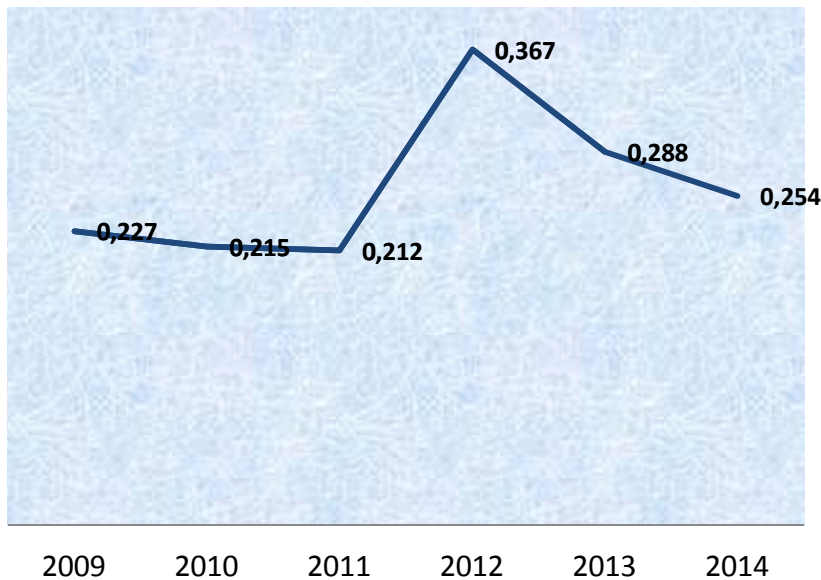
The efforts of the Geodetski vestnik editorial board for its higher visibility and recognition in Slovenia and abroad have produced good results:

Geodetski vestnik is indexed in WOS and it is cited by high ranked (JCR) international journals.

GV is one among 10 best internationally oriented scientific journals in the field of geodesy (Stojanovski et al. 2015).

# BUT: GV & IF

Impact factor (IF) of  
Geodetski vestnik  
2009-2013



## Reasons

- The effects of last efforts (DRUGG, Crossref) are not visible yet.
- Excluding of conference papers in 2013 does not reflect in the IF yet.

## Solutions

- + consistent double blind peer-review,
- + including in several information systems,
- + more papers from abroad,
- + open access,
- + involving of information expert,
- + popularisation of journal .

# Librarian and his Role

The librarian is the important stakeholder in the editorial board of GV.

As IT expert and expert of scientific communication becomes an important element

- by providing the novelties as regulation, directives,
- by providing the journal's and article's forming regarding to bibliographic equipment,
- by advising of data bases for indexation,
- by promoting of journal.

**Librarians in academic and research institutions could contribute with their knowledge and experiences to higher recognition of scientific journals.**