

Cartographic Journals in Scopus

Scopus is a commercial base owned by Elsevier established in 2004. Scopus is the largest bibliographic and citation base in the world and includes tools for searching, analysing and visualizing data.

End of 2007 saw the emergence of the *Scimago Journal & Country Rank* (SJR 2016) portal, which uses Scopus data to rank journals per various statistical indicators of published papers and their citation. The most important indicator is SJR (*Scimago Journal Rank*). It is calculated similarly to impact factor, i.e. based on the number of citations. While all citations have the same weight in the impact factor, SJR also takes the journals' indicator into calculation.

In order to obtain data on a certain journal, one need to select *Journal Ranks* and input the journal title, ISSN or the publisher. In addition to basic journal data, the site contains *Subject Area* and one or several *Subject Categories* associated with the journal. There is also a graphic representation of the quartile the journal is in within the subject category for each year in which the journal was a part of Scopus, several graphic representations on

journal citation and h-index. A journal's h-index is equal to h if it has at least h papers, each of which was cited at least h times.

In this text, we aim to explore which cartographic journals are included in Scopus. Therefore, we used two papers (Frančula et al. 2013 and Stojanovski et al. 2015), which contain a body of 112 geodetic journals. Those papers considered geodetic journals those active journals which have an *International Standard Serial Number* (ISSN) and which cover at least one branch of geodesy, according to the classification in the Croatian Regulations on Scientific and Artistic Areas, Fields and Branches, which consider geodesy a field in the area of technical sciences. According to the Regulations, geodesy consists of following branches: cartography, photogrammetry and remote sensing, maritime, satellite and physical geodesy, applied geodesy and geomatics. We are going to find cartographic journals among the body of 112 geodetic journals. We are also going to consider cartographic journals those covering disciplines related to cartography, e.g. geodesy, photogrammetry or geomatics and emphasise it in their titles. We found 40 journals, but left out *Bulletin du Comité Francais de Cartographie*, which is a precursor to *Cartes & géomatique*, and we added *IMCoS Journal* which did not use to have an ISSN, while now it has one. We also added *International Journal of Cartography*,

which was first published in 2015, making the list contain 41 cartographic journal.

- ACSM Bulletin
- Acta Geodaetica et Cartographica Sinica
- Association of Canadian Map Libraries and Archives Bulletin (ACMLA Bulletin)
- Bollettino della Associazione Italiana di Cartografia
- Bulletin of the Society of Cartographers
- Caert Thresoor
- Cartes & géomatique
- Cartographic Journal
- Cartographic Perspectives
- Cartographica Helvetica
- Cartographica: The International Journal for Geographic Information and Geovisualization
- Cartography and Geographic Information Science
- e-Perimeton
- Geodesy and Cartography; Lithuania
- Geodesy and Cartography; Poland
- Geodeticky a kartograficky obzor
- Geodezia es Kartografia
- Geodezija i kartografija; Russia
- Globe
- Globe Studies
- Imago Mundi
- IMCoS Journal
- Information Bulletin – Western Association of Map Libraries
- International Journal of Cartography
- Journal of Map and Geography Libraries
- Journal of Maps
- Journal of the Korean Society of Surveying Geodesy Photogrammetry and Cartography
- Kart & Bildtechnik = Mapping and Image Science
- Kart og Plan
- Kartograficke listy
- Kartografija i Geoinformacije = Cartography and Geoinformation
- Kartographische Nachrichten
- M@ppemonde
- Map: Journal of the Japan Cartographers Association
- Polski Przegląd Kartograficzny
- Portolan, The
- Revista Brasileira de Cartografia

Table 1. Cartographic journals in Scopus in 2015

Journal	ISSN	Country	SJR	H-ind.	Quart.
Cartography and GIScience	1523-0406	USA	0,839	41	Q1
Journal of Maps	1744-5647	UK	0,596	15	Q1
Cartographica	0317-7173	Canada	0,387	23	Q2
Acta Geod. et Cart. Sinica	1001-1595	China	0,376	16	Q2
Cartographic Journal	0008-7041	UK	0,356	20	Q2
J. Map and Geography Libraries	1542-0353	USA	0,283	8	Q3
Geodesy and Cartography	2029-6991	Poland	0,220	7	Q3
Kartografija i Geoinformacije	1333-896X	Croatia	0,208	4	Q3
J. Korean Soc.S. G. P. and Cart.	1598-4850	Rep. Korea	0,203	5	Q3
Cartographic Perspectives	1048-9053	USA	0,151	8	Q3
Kartographische Nachrichten	0022-9164	Germany	0,150	4	Q3
Imago Mundi	0308-5694	UK	0,149	11	Q3
Bulletin Soc. Uni. Cartographers	0036-1984	UK	0,102	4	Q4
ACMLA Bulletin	0840-9331	Canada	0,101	3	Q4
M@ppemonde	1769-7298	France	0,100	6	Q4

Note: Full journals titles can be seen in the previous list.

Kartografski časopisi u Scopusu

Scopus pokrenut 2004., komercijalna baza tvrtke Elsevier, najveća je bibliografska i citatna baza na svijetu s alatima za pretraživanje, analiziranje i vizualizaciju dobivenih podataka.

Krajem 2007. godine pojavio se portal *Scimago Journal & Country Rank* (SJR 2016) koji na osnovi podataka iz Scopusu služi za rangiranje časopisa prema raznim statističkim pokazateljima o objavljenim radovima i podacima o njihovoj citiranosti. Najvažniji je od nekoliko pokazatelja SJR (*Scimago Journal Rank*). Slično kao i faktor odjeka i SJR se izračunava na osnovi broja citata objavljenih radova. Dok kod faktora odjeka svi citati imaju jednaku težinu, u računanju pokazatelja SJR veću težinu imaju citati u časopisima s većim pokazateljom.

Da bi se dobili podaci o pojedinom časopisu, treba birati *Journal Ranks* i u tražilicu upisati naziv časopisa, ISSN ili izdavača. Uz osnovne podatke o časopisu stranica sadrži predmetno područje (*Subject Area*) i jednu ili nekoliko predmetnih skupina (*Subject Category*) u koje je časopis uvršten. Dan je i grafički prikaz kvartila u kojem se časopis nalazi unutar predmetne skupine za sve godine u kojima je časopis uvršten u Scopus, nekoliko grafičkih prikaza o citiranosti časopisa i h-indeks. Časopis ima h-indeks jednak h ako ima najmanje h članaka od kojih je svaki citiran najmanje h puta.

U ovom tekstu želimo istražiti koji su kartografski časopisi uvršteni u Scopus. U tu svrhu poslužili smo se dvama radovima (Frančula i dr. 2013 i Stojanovski i dr. 2015) u kojima je definiran korpus od 112 geodetskih časopisa. U tim istraživanjima geodetskim časopisima smatrani su aktivni časopisi koji imaju *International Standard Serial Number* (ISSN) i koji većinom svojega sadržaja pokrivaju bar jednu granu geodezije, sukladno klasifikaciji iz hrvatskoga Pravilnika o znanstvenim i umjetničkim područjima, poljima i

granama unutar koje je polje geodezija u području tehničkih znanosti. Prema tome Pravilniku geodezija sadrži sljedeće grane: kartografiju, fotogrametriju i daljinska istraživanja, pomorsku, satelitsku i fizikalnu geodeziju, primijenjenu geodeziju i geomatiku.

Kartografske časopise izdvojit ćemo iz korpusa 112 geodetskih časopisa. Kartografskim časopisima smatrat ćemo i časopise koji uz kartografiju pokrivaju i neku od kartografiji srodnih disciplina, npr. geodeziju, fotogrametriju ili geomatiku i to imaju istaknuto u nazivu. Pronašli smo 40 časopisa, ali izostavili časopis *Bulletin du Comité Français de Cartographie* koji je prethodnik časopisa *Cartes & géomatique*, a dodali časopis *IMCoS Journal* koji je u prehodnim istraživanjima izostavljen jer nije imao ISSN, a danas ga ima. Dodali smo i časopis *International Journal of Cartography* koji je počeo izlaziti 2015. pa popis u nastavku sadrži 41 kartografski časopis.

- ACSM Bulletin
- Acta Geodaetica et Cartographica Sinica
- Association of Canadian Map Libraries and Archives Bulletin (ACMLA Bulletin)
- Bollettino della Associazione Italiana di Cartografia
- Bulletin of the Society of Cartographers
- Caert Thresoor
- Cartes & géomatique
- Cartographic Journal
- Cartographic Perspectives
- Cartographica Helvetica
- Cartographica: The International Journal for Geographic Information and Geovisualization
- Cartography and Geographic Information Science
- e-Perimtron
- Geodesy and Cartography; Litva
- Geodesy and Cartography; Poljska
- Geodeticky a kartograficky obzor
- Geodezia es Kartografia
- Geodezija i kartografija; Rusija
- Globe
- Globe Studies
- Imago Mundi
- IMCoS Journal
- Information Bulletin – Western Association of Map Libraries
- International Journal of Cartography
- Journal of Map and Geography Libraries
- Journal of Maps
- Journal of the Korean Society of Surveying Geodesy Photogrammetry and Cartography
- Kart & Bildtechnik = Mapping and Image Science
- Kart og Plan
- Kartograficke listy
- Kartografija i Geoinformacije = Cartography and Geoinformation
- Kartographische Nachrichten
- M@ppemonde

Tablica 1. Kartografski časopisi u Scopusu 2015.

Časopis	ISSN	Zemlja	SJR	H-ind.	Kvart.
Cartography and GIScience	1523-0406	SAD	0,839	41	Q1
Journal of Maps	1744-5647	UK	0,596	15	Q1
Cartographica	0317-7173	Kanada	0,387	23	Q2
Acta Geod. et Cart. Sinica	1001-1595	Kina	0,376	16	Q2
Cartographic Journal	0008-7041	UK	0,356	20	Q2
J. Map and Geography Libraries	1542-0353	SAD	0,283	8	Q3
Geodesy and Cartography	2029-6991	Poljska	0,220	7	Q3
Kartografija i Geoinformacije	1333-896X	Hrvatska	0,208	4	Q3
J. Korean Soc.S. G. P. and Cart.	1598-4850	R. Koreja	0,203	5	Q3
Cartographic Perspectives	1048-9053	SAD	0,151	8	Q3
Kartographische Nachrichten	0022-9164	Njemačka	0,150	4	Q3
Imago Mundi	0308-5694	UK	0,149	11	Q3
Bulletin Soc. Uni. Cartographers	0036-1984	UK	0,102	4	Q4
ACMLA Bulletin	0840-9331	Kanada	0,101	3	Q4
M@ppemonde	1769-7298	Francuska	0,100	6	Q4

Napomena: Puni nazivi časopisa vidljivi su u prethodno navedenom popisu.

- Revista cartografica
- Sheetlines
- Studies in Surveying and Mapping Science
- Topografia y cartografia.

We checked which of those journals are in *Scopus*. We found 15 journals and listed them in Table 1. The table also contains information on journal ISSN, publisher country, SJR, h-index and quartile. If a journal is associated with several subject categories, the table contains the quartile of the category in which the journal is ranked best. Disagreement between SJR and h-index can be explained as being due to various periods in *Scopus*. Journals which have been in *Scopus* for a shorter period are likely to have lesser h-indices than journals longer in *Scopus*. Data for the first five journals in Table 1 confirm that assumption. Journals with the lowest h-indices (15 and 16) have citation data for the period 2006–2015, while other three journals, which have higher h-

Table 2. No. of journals per country

Country	No. of journals
UK	4
USA	3
Canada	2
France	1
Croatia	1
China	1
Germany	1
Poland	1
Republic of Korea	1

indices (41, 23 and 20) have citation data for the period 1999–2015, i.e. seven years longer. In addition, *Imago Mundi* and *Kartographische Nachrichten* have basically the same SJR indicators, but differ greatly in h-indices (11 and 4, respectively) because *Imago Mundi* has citation data for the period 1999–2015 (with breaks in 2001 and 2005), while *Kartographische Nachrichten* has citation data for the period 2010–2015.

Table 2 represents the number of journals per country. Only nine coun-

tries have cartographic journals in *Scopus* and Croatia is among them.

References:

- Frančula, N., Stojanovski, J., Lapaine, M. (2013): Defininiranje korpusa geodetskih časopisa; Defining the Corpus of Mapping Sciences Journals. *Kartografija i geoinformacije* 19, 4–28. http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=156852 (24. 7. 2016.)
- SJR (2016): Scimago Journal & Country Rank. <http://www.scimagojr.com/index.php> (26. 7. 2016.)
- Stojanovski, J., Frančula, N., Lapaine, M. (2015): Indexing of mapping science journals. *Geography Environment Sustainability* 1, 27–52. <http://www.geogr.msu.ru/GESJournal/contents.php?iid=23&menupos=8> (24. 7. 2016.)

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Geodetic Journals in the Emerging Sources Citation Index

In addition to the well-known citation indices Science Citation Index Expanded (SCIE), Social Science Citation Index (SSCI) and Arts & Humanities Citation Index (A&HCI), since 2015 Thomson Reuters has been producing a new index, Emerging Sources Citation Index (ESCI). All of them are included in the Web of Science. ESCI includes journals of regional importance and journals associated with emerging scientific fields.

If they satisfy Thomson Reuters' criteria, journals included in ESCI are going to be included into SCIE, SSCI or A&HCI. Impact factor is not calculated for journals included in ESCI (currently 2589 journals) (Macan 2016).

We found the following geodetic journals by browsing the *Master Journal List*:

- *Artificial Satellites – Polish journal of planetary geodesy*

- *Cartographica: The International Journal for Geographic Information and Geovisualization*
- *Geodesy and Cartography – The Journal of Committee on Geodesy of Polish Academy of Sciences*
- *Geodesy and Geodinamics (Institute of Seismology, China Earthquake Administration, Science Press, and another six agencies)*
- *GIM International – The Worldwide Magazine for Geomatics*
- *Journal of Applied Geodesy*
- *Raumforschung and Raumordnung*
- *Reports on Geodesy and Geoinformatics (The Journal of Warsaw University of Technology)*
- *South African Journal of Geomatics.*

Among these nine geodetic journals, there is a cartographic one (*Cartographica*) and a geodetic-cartographic one (*Geodesy and Cartography*). Let us

note that four cartographic journals have been included in SCIE or SSCI and Current Contents (CC) so far:

- *Cartographic Journal* (SSCI, CC)
- *Cartography and Geographic Information Science* (SSCI, CC)
- *Imago Mundi* (SSCI, CC)
- *Journal of Maps* (SCIE, SSCI, CC).

Reference:

- Macan, B. (2016): Emerging Sources Citation Index (ESCI) i potencijalne zamke za znanstvenike prilikom odabira časopisa za objavljivanje rada. IRB Centar za znanstvene informacije, https://lib.irb.hr/web/hr/vijesti/item/1943-emerging_sources_citation_index_esci.html

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- Map: Journal of the Japan Cartographers Association
- Polski Przegląd Kartograficzny
- Portolan, The
- Revista Brasileira de Cartografia
- Revista cartografica
- Sheetlines
- Studies in Surveying and Mapping Science
- Topografia y cartografia.

Provjerili smo koji su od tih časopisa uvršteni u Scopus. Pronašli smo 15 časopisa i uvrstili ih u tablicu 1. Za svaki časopis u tablicu su upisani ISSN, zemlja izdavača, SJR, h-indeks i kvartil. Ako je časopis uvršten u više predmetnih skupina, u tablicu je upisan kvartil iz skupine u kojoj je najbolje rangiran. Časopisi su u tablici poredani po veličini SJR-a. Poneko neslaganje između pokazatelja SJR i h-indeksa može se tumačiti različitim brojem godina uvrštenosti u Scopus. Časopisi koji su kraće vrijeme u Scopusu imaju vjerojatnost manjeg h-indeksa od časopisa s duljim vremenom uvršte-

Tablica 2. Časopisi po državama

Država	Br. časopisa
UK	4
SAD	3
Kanada	2
Francuska	1
Hrvatska	1
Kina	1
Njemačka	1
Poljska	1
R. Koreja	1

nosti. To potvrđuju i podaci za prvih pet časopisa u tablici 1. Časopisi s najmanjim h-indeksima (15 i 16) imaju podatke o citiranosti za razdoblje 2006–2015, a ostala tri časopisa s višim h-indeksima (41, 23 i 20) za razdoblje 1999–2015, dakle sedam godina dulje. Također, časopisi *Imago Mundi* i *Kartographische Nachrichten* imaju praktički jednake pokazatelje SJR, ali bitno različite h-indekse (11 i 4) jer *Imago Mundi* ima podatke o citiranosti za razdoblje 1999–2015 (s prekidi-

ma 2001. i 2005.), a *Kartographische Nachrichten* za razdoblje 2010–2015.

Literatura:

- Frančula, N., Stojanovski, J., Lapaine, M. (2013): Definiranje korpusa geodetskih časopisa; Defining the Corpus of Mapping Sciences Journals. *Kartografija i geoinformacije* 19, 4–28. http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=156852 (24. 7. 2016.)
- SJR (2016): Scimago Journal & Country Rank. <http://www.scimagojr.com/index.php> (26. 7. 2016.)
- Stojanovski, J., Frančula, N., Lapaine, M. (2015): Indexing of mapping science journals. *Geography Environment Sustainability* 1, 27–52. <http://www.geogr.msu.ru/GESJournal/contents.php?iid=23&menupos=8> (24. 7. 2016.)

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Geodetski časopisi u Emerging Sources Citation Indexu

Thomson Reuters uz već poznate citatne indekse *Science Citation Index Expanded* (SCIE), *Social Science Citation Index* (SSCI) i *Arts & Humanities Citation Index* (A&HCI) izrađuje od 2015. i novi indeks *Emerging Sources Citation Index* (ESCI) – sve uključene u *Web of Science*. U ESCI su uvršteni časopisi od regionalne važnosti i časopisi iz znanstvenih područja u nastajanju.

Časopisi uvršteni u ESCI bit će nakon određenog vremena, ako zadovolje kriterije Thomson Reutersa, uvršteni u SCIE, SSCI ili A&HCI. Za časopise uvrštene u ESCI, trenutno ih je 2589, ne izračunava se faktor odjeka (Macan 2016).

Pretražujući *Master Journal List* pronašli smo u tom novom indeksu ove geodetske časopise:

- *Artificial Satellites – Polish journal of planetary geodesy*

- *Cartographica: The International Journal for Geographic Information and Geovisualization*
- *Geodesy and Cartography – The Journal of Committee on Geodesy of Polish Academy of Sciences*
- *Geodesy and Geodynamics (Institute of Seismology, China Earthquake Administration, Science Press, and another six agencies)*
- *GIM International – The Worldwide Magazine for Geomatics*
- *Journal of Applied Geodesy*
- *Raumforschung and Raumordnung*
- *Reports on Geodesy and Geoinformatics (The Journal of Warsaw University of Technology)*
- *South African Journal of Geomatics.*

Među tih devet geodetskih časopisa jedan je kartografski (*Cartographica*) i jedan geodetsko-kartografski (*Geodesy and Cartography*). Napomi-

njemo da su u SCIE ili SSCI te bazu *Current Contents* (CC) do sada uvrštena četiri kartografska časopisa:

- *Cartographic Journal* (SSCI, CC)
- *Cartography and Geographic Information Science* (SSCI, CC)
- *Imago Mundi* (SSCI, CC)
- *Journal of Maps* (SCIE, SSCI, CC).

Literatura:

- Macan, B. (2016): Emerging Sources Citation Index (ESCI) i potencijalne zamke za znanstvenike prilikom odabira časopisa za objavljivanje rada. IRB Centar za znanstvene informacije, https://lib.irb.hr/web/hr/vijesti/item/1943-emerging_sources_citation_index_esci.html

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