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ODREDJIVANJE IDENTIFIKATORA NAUČNIH PUBLIKACIJA I CITATA POMOĆU BAZE PODATAKA GOOGLE SCHOLAR

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Kratak sadržaj: Rangiranje naučnih rezultata i naučnika je poslednjih godina postalo sve objektivnije zahvaljujući novim metodama, sistematičnom pristupu i dobro razvijenim, organizovanim akademskim mrežama i bazama podataka. Postupci naučno metričkog merenja kvantifikuju broj naučnih publikacija i kvalitet publikacija – broj citata na publikacije autora i Hirsch-indeks, tj. h-indeks autora. Prikazujemo određivanje identifikatora naučnih publikacija i citata pomoću baze podataka Google Scholar.

Ključne reči: Google Scholar, h-indeks, identifikator naučne publikacije, identifikator citata, naučni rezultati istraživača.

DETERMINATION OF IDENTIFIER OF SCIENTIFIC PUBLICATIONS AND CITATIONS USING THE GOOGLE SCHOLAR DATABASE

Abstract: The ranking of scientific results and scientists has become increasingly objective in recent years thanks to new methods, a systematic approach, and well-developed, organized academic networks and databases. Scientific metric measurement procedures quantify the number of scientific publications and the quality of publications - the number of citations to the author's publications and the Hirsch-index, ie. h-index of the author. We show the determination of identifiers of scientific publications and citations using the Google Scholar database.

Key Words: Google Scholar, h-index, scientific publication identifier, citation identifier, scientific results of researchers.

1. UVOD

Rangiranje naučnih rezultata i naučnika je poslednjih desetak godina postalo sve objektivnije zahvaljujući novim metodama, sistematičnom pristupu i dobro razvijenim, organizovanim akademskim mrežama i bazama podataka [1-14].

Google Scholar naučni pretraživač startovao je 2004 god. i prezentuje naučne publikacije autora, citate na publikacije autora, Hirsch-indeks, tj. h-indeks i i10-indeks autora [15-25].

Hirsch-index, h-index istraživača, 2005 god. uvodi fizičar Jorge E. Hirsch:

»A scientist has index h if h of his/her Np papers have at least h citations each, and the other (Np-h) papers have no more than h citations each.«

Prema tome h-indeks je onaj najveći h broj, kada se poklapa broj h citata sa brojem h publikacija na koje se isti citati odnose, sledi da je h-indeks funkcija citata na radove autora.

i 10-indeks 2004 godine uvodi Google Scholar:

»i10 index is the number of publications with at least 10 citations».

Prema tome i10-indeks je broj publikacija autora sa po 10 ili više od 10 citata.

U daljem tekstu prikazujemo metodologiju određivanje identifikatora naučnih publikacija i citata pomoću baze podataka Google Scholar [26-35].

2. ODREDJIVANJE IDENTIFIKATORA NAUČNIH PUBLIKACIJA POMOĆU BAZE PODATAKA GOOGLE SCHOLAR

Ako na Google Scholar profilu autora ovog rada:

<https://scholar.google.com/citations?user=7HP6cEMAAAJ&hl=hu&oi=ao>

potražimo 35-tu publikaciju sa 38 citata:

Sensor-based Navigation and Integrated Control of Ambient Intelligent Wheeled Robots with Tire-Ground Interaction Uncertainties

A. Rodic, G. Mester

Acta Polytechnica Hungarica 10 (3), 113-133, 2013.

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i kliknemo na broj 38:
tada se pojavljuje sledeći URL:

<https://scholar.google.com/scholar?oi=bibs&hl=hu&cites=1777528545518539994>

i na kraju ovog URL-a rada:
A Rodic, G Mester

Sensor-based Navigation and Integrated Control of Ambient Intelligent Wheeled Robots with Tire-Ground Interaction Uncertainties

možemo očitati identifikator publikacije u Google Scholar-u [49-60]:

1777528545518539994.

Sada možemo uneti podatke o radu u spisak radova autora sa Google Scholar identifikatorom na sledeći način:

Aleksandar Rodic, Gyula Mester, Sensor-based Navigation and Integrated Control of Ambient Intelligent Wheeled Robots with Tire-Ground Interaction Uncertainties, Acta Polytechnica Hungarica, Journal of Applied Sciences, Vol. 10, No. 3, pp. 113-133, ISSN 1785-8860, DOI:10.12700/APH.10.03.2013.3.9, Budapest, Hungary, 2013.

Google Scholar: **1777528545518539994.**

3. ODREDJIVANJE IDENTIFIKATORA CITATA NA NAUČNE PUBLIKACIJE POMOĆU BAZE PODATAKA GOOGLE SCHOLAR

Ako ponovo kliknemo na broj 38 pojavljuje se lista od 38 publikacija koji citiraju gore navedenu naučnu publikaciju autora. Ako na ovoj listi izaberemo sedmu publikaciju:

Real-Time Image Recognition and Path Tracking of a Wheeled Mobile Robot
for Taking an Elevator

JG Juang, CL Yu, CM Lin, RG Yeh... - Acta Polytechnica ..., 2013 - Obuda University - epa.niif.hu

This paper aims to design a wheeled mobile robot for path tracking and for automatically taking an elevator by integrating multiple technologies, including image processing using hue-saturation-value color space, pattern recognition using the adaptive resonance theory ...

Cited by: 12

i kliknemo na 'Cited by 12', tada se pojavljuje sledeći URL:

https://scholar.google.com/scholar?cites=10792398354770040308&as_sdt=2005&scioldt=0,5&hl=hu

Iz ovog URL-a očitavamo identifikator ovog citata na gore navedenu publikaciju autora:

10792398354770040308.

Sada smo u mogućnosti da finaliziramo tekst citata sa identifikatorom samog citata na sledeći način:

Jih-Gau Juang, Chia-Lung Yu, Chih-Min Lin, Rong-Guan Yeh, Imre J. Rudas, Real-Time Image Recognition and Path Tracking of a Wheeled Mobile Robot for Taking an Elevator, Acta Polytechnica Hungarica Vol. 10, No. 6, pp. 5-23, 2013.

'In recent years, the wheeled mobile robot (WMR) has been frequently discussed in mobile robot researches such as easy control, high-speed mobility, and energy storage capacity [1, 2], which are better than for the legged robot.'

Google Scholar: **10792398354770040308.**

Ako u radu citata nedostaje tekst:

'Cited by ...', tada URL:

, All ... versions' prikazuje Google Scholar identifikator.

Prema tome u slučaju sledećeg citata:

Swarm-Based Heuristics for an Area Exploration

M Masár, I Budinská - Advances in Soft Computing, Intelligent Robotics ..., 2014 - Springer

This paper describes design and implementation of biologically inspired heuristic for the purpose of motion coordination. Proposed method goes from known principles and methods, namely: particle swarm optimization, ant colony optimization, and simulation of ...

'All 3 versions'

Kliknemo na tekst:

'All 3 versions'

i u URL-u koji se pojavljuje:

https://scholar.google.com/scholar?cluster=6535504148193048275&hl=hu&as_sdt=0,5&scioldt=0,5
očita mo identifikator citata na rad autora:

6535504148193048275

Sada smo u mogućnosti da finaliziramo tekst citata sa identifikatorom samog citata na sledeći način:

Masár M., Budinská I. (2014) Swarm-Based Heuristics for an Area Exploration. In: Fodor J., Fullér R. (eds) Advances in Soft Computing, Intelligent Robotics and Control. Topics in Intelligent Engineering and Informatics, Vol 8. Springer, Cham. https://doi.org/10.1007/978-3-319-05945-7_15, 2014.

Google Scholar: **6535504148193048275**.

Ako rad citata ne sadrži tekst: 'Cited by ...' ; 'All ... versions' tada rad citata nema Google Scholar identifikator. Za gore navedeni rad sada možemo uneti u spisak radova autora identifikator publikacije i citata na sledeći način:

Aleksandar Rodic, Gyula Mester, Sensor-based Navigation and Integrated Control of Ambient Intelligent Wheeled Robots with Tire-Ground Interaction Uncertainties, Acta Polytechnica Hungarica, Journal of Applied Sciences, Vol. 10, No. 3, pp. 113-133, ISSN 1785-8860, DOI:10.12700/APH.10.03.2013.3.9, Budapest, Hungary, 2013.

Google Scholar: 17777528545518539994.

Jih-Gau Juang, Chia-Lung Yu, Chih-Min Lin, Rong-Guan Yeh, Imre J. Rudas, Real-Time Image Recognition and Path Tracking of a Wheeled Mobile Robot for Taking an Elevator, Acta Polytechnica Hungarica Vol. 10, No. 6, pp. 5-23, 2013. 'In recent years, the wheeled mobile robot (WMR) has been frequently discussed in mobile robot researches such as easy control, high-speed mobility, and energy storage capacity [1, 2], which are better than for the legged robot.' Google Scholar: 10792398354770040308.

4. ZAKLJUČAK

U radu smo prikazali metodologiju odredjivanje identifikatora naučnih publikacija i citata pomoću baze podataka Google Scholar.

Prikazali smo kompletiranje podataka o radu u spisku publikacija autora sa Google Scholar identifikatorom naučnih publikacija i citata.

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