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RANGIRANJE ISTRAŽIVAČA ROBOTIKE

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Kratak sadržaj: Primenom naučnometrijskih indeksa moguće je kreirati rang listu 20 najboljih robotičara Srbije. Za očitavanje h indeksa i ukupnog broj citata istraživača na raspolaganju su nam sledeće baze podataka: Web of Science, Scopus i Google Scholar. Zbog najšireg zahvata, autor je izabrao bazu podataka Google Scholar. Nakon izvršene naučnometrijske analize sastavljena je tabela gde su robotičari rangirani prema h-indeksu, a u slučaju, ako je kod dva robotičara h indeks isti, tada se rangiranje vrši prema g-indeksu.

Ključne reči: naučnometrijski indeksi, Google Scholar, robotičari Srbije, h indeks, g-indeks, ukupan broj citata.

RANKING OF ROBOTICS RESEARCHERS

Abstract: By applying scientific-metric indices, it is possible to create a ranking list of the 20 best robotics researchers in Serbia. The following databases are available for reading the h index and the total number of researcher citations: WOS, SCOPUS, and Google Scholar. Because of its broadest reach, the author chose the Google Scholar Database. After the scientific-metric analysis, a table was compiled where the robotics researchers were ranked according to the h-index, and in case if the two robotics researchers had the h-index the same, then the ranking was made according to the g-index.

Key Words: scientific metric indexes, Google Scholar, robotics researchers of Serbia, h-index, g-index, total number of citations.

1. UVOD

Primenom naučnometrijskih indeksa moguće je kreirati rang listu 20 najboljih robotičara Srbije. Za očitavanje h-indeksa i ukupnog broj citata istraživača na raspolaganju su nam sledeće baze podataka: Web of Science, Scopus i Google Scholar [1, 5, 9]. Zbog najšireg zahvata, autor je izabrao bazu podataka Google Scholar. h-indeks je 2005. godine publikovao Jorge E. Hirsch (University of California, San Diego): *A scientist has index h if h of his/her N papers have at least h citations each, and the other (N-h) papers have no more than h citations each* [2].

Nakon izvršene naučnometrijske analize sastavljena je tabela gde su robotičari rangirani prema h-indeksu [4], a u slučaju, ako je kod dva robotičara h-indeks isti [6, 7, 8, 10], tada se rangiranje vrši prema g-indeksu [3].

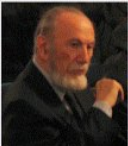
g-indeks je publikovao je Egghe Leo 2006. godine: *Given a set of articles ranked in decreasing order of the number of citations that they received, the g-index is the unique largest number such that the top g articles received together at least g² citations.*

2. RANG LISTA 20 NAJBOLJIH ROBOTIČARA SRBIJE

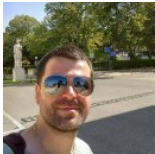
U Tabeli 1 prikazana je rang lista 20 najboljih robotičara Srbije svih vremena [11-23]. Tabela je sastavljena na bazi h-indeksa istraživača. U tabeli prikazujemo:

Orcid ID istraživača (ako poseduje), naziv institucije gde istraživač radi, naučne discipline istraživača (najviše 5), ukupan broj citata i g-indeks autora [24-28].

Tabela 1 – Prikaz 20 najbolje rangiranih istraživača robotike Srbije

1.		Miomir Vukobratovic , Orcid ID: University of Belgrade, Institute Mihailo Pupin, Robotics Laboratory, Serbia No verified email Robotics Humanoid Robotics	Citations 15647 h-index 48 g-index 118
2.		Gyula Mester , Orcid ID: 0000-0001-7796-2820 Professor, Óbuda University, Budapest, University of Szeged, Hungary, University of Novi Sad, Serbia Verified e-mail at bgk.uni-obuda.hu Unmanned Autonomous Systems Flying Cars Self-Driving Cars Citation Analysis Smart City	Citations 1975 h-index 30 g-index 37

3.		Veljko Potkonjak , Orcid ID: 0000-0003-4490-4717 Professor of Robotics, Metropolitan University, School of Electrical Engineering, Belgrade Verified email at metropolitan.ac.rs Robotics Biomechanics	Citations 3094 h-index 28 g-index 52
4.		Marko Popovic , Orcid ID: Professor of Physics, Robotics and Biomedical Engineering, WPI Worcester Polytechnic Institute Verified email at wpi.edu Physics Robotics Biomechanics Biomedical Engineering Networks	Citations 2333 h-index 21 g-index 48
5.		Branislav Borovac , Orcid ID: 0000-0001-7446-1027 Professor of Robotics, University of Novi Sad, Faculty of Technical Sciences, Serbia Verified email at uns.ac.rs Robotics Humanoid Robotics	Citations 4743 h-index 19 g-index 68
6.		Dušan Surla , Orcid ID: 0000-0003-2040-8735 Faculty of Science Novi Sad Verified email at uns.ac.rs Robotics Humanoid Robotics	Citations 2080 h-index 19 g-index 45
7.		Mihailo Lazarevic , Orcid ID: 0000-0002-3326-6636 Professor Verified email at mas.bg.ac.rs	Citations 1435 h-index 18 g-index 35
8.		Zoran Miljkovic , Orcid ID: 0000-0001-9706-6134 Full Professor of Robotics and AI, University of Belgrade-Faculty of Mechanical Engineering Verified email at mas.bg.ac.rs Robotics Artificial Intelligence Intelligent Manufacturing Systems Autonomous Systems Machine Learning	Citations 1144 h-index 18 g-index 207
9.		Aleksandar Rodić , Orcid ID: 0000-0002-5595-9724 University of Belgrade, Institute Mihajlo Pupin, Serbia Verified email at pupin.rs Robotics Humanoid and Service robots Unmanned Autonomous Systems Cognitive Systems Bio-inspired Systems	Citations 921 h-index 17 g-index 25
10.		Simon Janos , Orcid ID: 0000-0003-2870-5718 Faculty of Engineering, University of Szeged, Hungary - Subotica Tech, Serbia Verified email at vts.su.ac.rs IoT Wireless Networks Sensor Unmanned Autonomous System. Embedded systems Industry 4.0	Citations 473 h-index 14 g-index 20
11.		Dusko Katic , Orcid ID: Robotics Laboratory Verified email at pupin.rs Robotics	Citations 737 h-index 12 g-index 25
12.		Kosta Jovanovic , Orcid ID: 0000-0002-9029-4465 University of Belgrade Verified email at etf.bg.ac.rs robotics human-robot interaction robot control	Citations 656 h-index 11 g-index 25

13.		Szilveszter Dr. Pletl , Orcid ID: 0000-0002-8721-6271 <u>University of Szeged</u> Verified email at inf.u-szeged.hu control techniques control robotics sensor networks informatics	Citations h-index g-index	384 11 18
14.		Miloš D Jovanović , Orcid ID: 0000-0001-7446-1027 <u>universitu of Belgrade</u> Verified email at uns.ac.rs robotics flexible automation	Citations h-index g-index	288 11 15
15.		Bratislav Svetozarevic , Orcid ID: 0000-0001-8921-3915 ETH Zurich Verified email at arch.ethz.ch soft robotics compliant robotics automatic control dynamic photovoltaic envelopes building systems	Citations h-index g-index	334 10 18
16.		Ana Djuric , Orcid ID: 0000-0001-7446-1027 Associate Professor, Engineering Technology, Wayne State University Verified email at wayne.edu Industrial robotics kinematics dynamics manufacturing reconfigurable modeling control	Citations h-index g-index	337 9 15
17.		Branko Karan , Orcid ID: 0000-0003-2651-5240 Institute of Technical Sciences SASA, Belgrade, Serbia Verified email at afrodita.rcub.bg.ac.rs robotics robot vision robot control calibration	Citations h-index g-index	312 9 17
87.		Dragan Šešlija , Orcid ID: 0000-0002-2133-008X Professor of Automation, Faculty of Technical Sciences, University of Novi Sad Verified email at uns.ac.rs Automation Mechatronics Pneumatics Robotics Energy Efficiency	Citations h-index g-index	311 9 15
19.		Mirko Rakovic , Orcid ID: 0000-0001-7446-1027 University of Novi Sad and Instituto Superior Técnico, University of Lisbon, LARSyS Verified email at uns.ac.rs Robotics HRI Locomotion Machinelearning	Citations h-index g-index	300 9 13
20.		Mirjana Filipovic , Orcid ID: Associate Research Professor, Mihailo Pupin Institute, University of Belgrade Verified email at robot.imp.bg.ac.rs Robotics Modeling Mathematics Mechanics Flexibility	Citations h-index g-index	265 9 14

3. ZAKLJUČAK

U radu je prikazana rang lista 20 najboljih robotičara Srbije svih vremena. Rang lista je sastavljena na bazi h-indeksa istraživača. U priloženoj tabeli prikazali smo Orcid ID istraživača (ako poseduje), naziv institucije gde istraživač radi (radio), naučne discipline istraživača (najviše 5), ukupan broj citata i g-indeks autora.

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