



– DOI Serbia Repository – how a transition country raised the visibility of scientific journals

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BRIEF HISTORY

National Library of Serbia maintains a few OA repositories and one of them is DOI Serbia. DOI Serbia repository was implemented in 2005 by the Department of Scientific Information in the National Library of Serbia. The system includes 66 scientific journals from Serbia with an archive from 2002 till today. That was one of the first developed OA repositories and National Library of Serbia was the first institution which assigned DOI numbers in Serbia.

TECHNICAL PART

For every journal, there are basic bibliographic data: web address, coverage, aims and scope, publisher, editorial board, frequency, impact factor if any. Also for every journal there are data: About the journal, Journal Editorial policy, Instruction for authors etc. Every article, along with the main bibliographic data is equipped with DOI number.

With the implementation of DOI numbers Serbian journals become more visible online and the number of indexed journals on various platforms increased. Today we have 24 Serbian journals indexed in the Web of Science Core Collection database and 22 of them get DOI numbers from National Library of Serbia. In the Scopus index database we have 80 Serbian journals and half of them get DOI numbers from National Library of Serbia.

doiSerbia

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National Library of Serbia

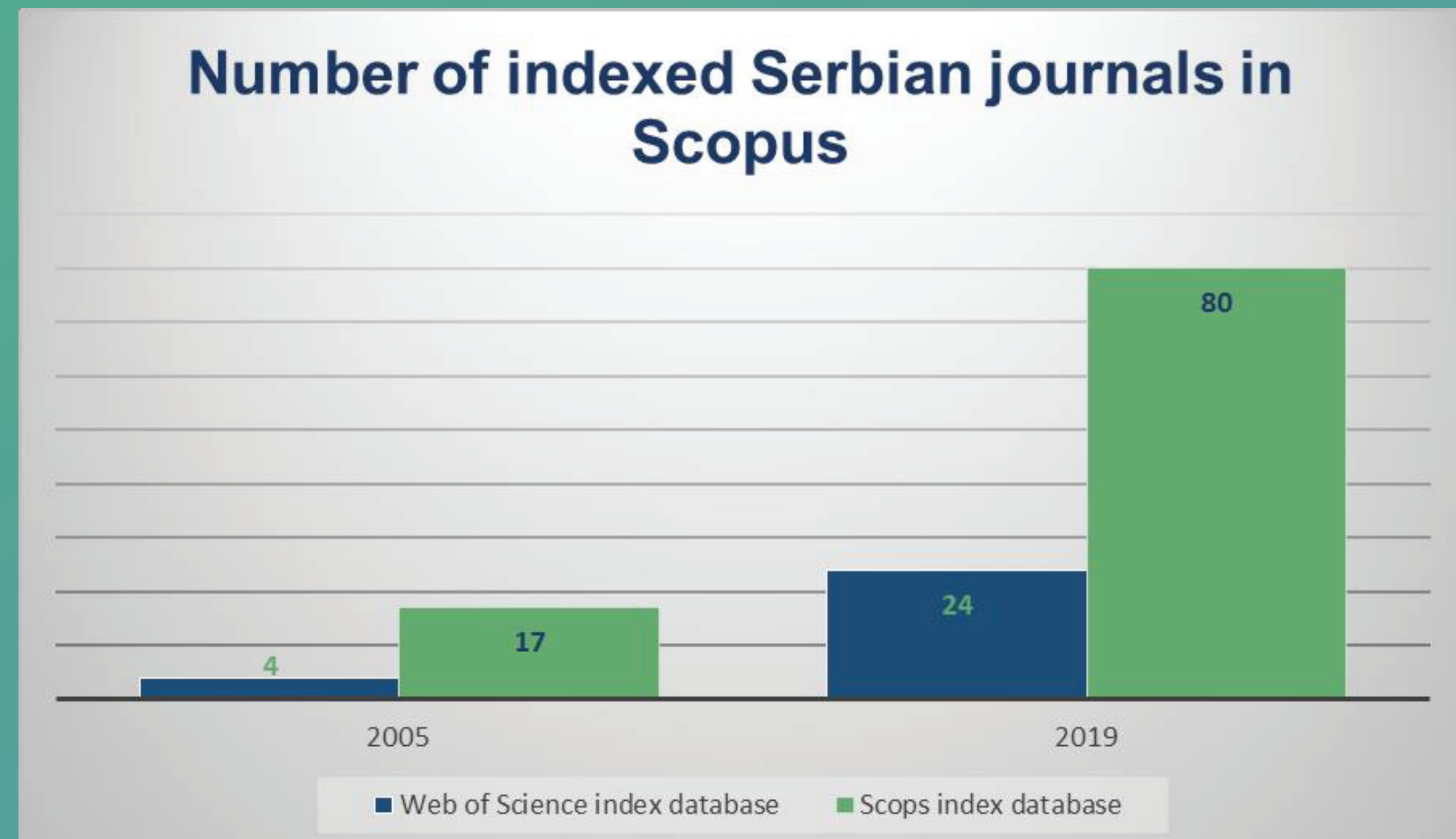
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Full text (1426 KB)

Experimental and matrix heat exchanger
Tomislav Mladen A., Živojinović S.

The need for compact heat exchangers to enhance the rate of heat transfer consists of a series of perforated plates mutually separated and sealed by spacers. The goal of this research was to investigate the heat transfer process of matrix heat exchangers on the air side, at the close to ambient conditions. The research was conducted in two directions – experimental research and CFD research. The experimental investigation was carried out over a perforated plate package with the porosity of 25.6%. The air/water matrix heat exchanger was heated by hot water and was installed in an experimental chamber at which entrance was a fan with the variable flow rate and heated by hot water. The thermocouples were attached to the surface of the perforated plate at the upwind and downwind sides, as well as at the inlet and the outlet of the chamber. During each experiment, the thermocouple readings and the air and water-flow and temperatures were recorded. In the numerical part of the research, the matrix heat exchangers with different plate porosity from 10 to 50% were investigated. The results of the numerical simulations were validated against the experimental results. On the basis of the experimental and numerical results, equations for heat transfer as a function of Reynolds number and geometrical parameters were established. [Project of the Serbian Ministry of Education, Science and Technological Development, Grant no. III 42008]

Keywords: CFD, heat transfer, matrix heat exchangers, perforated plates

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Every DOI number is generated manually. The connection between metadata of DOIs and articles is conducted via CrossRef. The metadata are standardized in Dublin Core and the xml scheme is generated automatically via software developed in the Department of Scientific Information.

OAI PMH protocol was implemented which is suitable for harvesting metadata from various OA repositories: OpenDOAR, DOAJ, Europeana, Google Scholar etc.

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CONCLUSION

DOI serves as a stable, persistent link to the full-text, helps Serbian scientific journals to be more visible eo ipso to reach more end users and raise impact.