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Prof. Amin Fatemi via Springer Publishers <noreply@actainformatica.com>

Sel, 11 Jan 12.14

Balas-Ke: Dhanalakshmi Elayamaran <dhanalakshmi.elayamaran@springernature.com>

Ke: Harjono Padmono Putro <harjonoputro@unkris.ac.id>

Dr. Harjono Padmono Putro:

I believe that you would serve as an excellent reviewer of the manuscript, "From regular expression matching to parsing" which has been submitted to Acta Informatica. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us

Please log into the journal web site by 2022-01-16 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation.

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Thank you for considering this request.

Dhanalakshmi Elayamaran
dhanalakshmi.elayamaran@springernature.com

"From regular expression matching to parsing"

Given a regular expression R and a string Q, the regular expression parsing problem is to determine if Q matches R and if so, determine how it matches, i.e., by a mapping of the characters of Q to the characters in R. Regular expression parsing makes finding matches of a regular expression even more useful by allowing us to directly extract subpatterns of the match, e.g., for extracting IP-addresses from internet traffic analysis or extracting subparts of genomes from genetic data bases. We present a new general techniques for efficiently converting a large class of algorithms that determine if a string Q matches regular expression R into algorithms that can construct a corresponding mapping. As a consequence, we obtain the first efficient linear space solutions for regular expression parsing.

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[ACTA] Article Review Request

Prof. Amin Fatemi via Springer Publishers <noreply@actainformatica.com>

Sen, 21 Feb 08.49

Balas-Ke: Dhanalakshmi Elayamaran <dhanalakshmi.elayamaran@springernature.com>

Ke: Harjono Padmono Putro <harjonoputro@unkris.ac.id>

Dr. Harjono Padmono Putro:

I believe that you would serve as an excellent reviewer of the manuscript, "Translation validation of coloured Petri net models of programs on integers" which has been submitted to Acta Informatica. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us

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Thank you for considering this request.

Dhanalakshmi Elayamaran
dhanalakshmi.elayamaran@springernature.com

"Translation validation of coloured Petri net models of programs on integers"

Programs are often subjected to significant optimizing and parallelizing transformations based on extensive dependence analysis. Formal validation of such transformations needs modelling paradigms which can capture both control and data dependences in the program vividly. Being value-based with an inherent scope of capturing parallelism, the untimed coloured Petri net (CPN) models, reported in the literature, fit the bill well; accordingly, they are likely to be more convenient as the intermediate representations (IRs) of both the source and the transformed codes for translation validation than strictly sequential variable-based IRs like sequential control flow graphs (CFGs). In this work, an efficient path-based equivalence checking method for CPN models of programs on integers is presented. Extensive experimentation has been carried out on several sequential and parallel examples. Complexity and correctness issues have been treated rigorously for the method.

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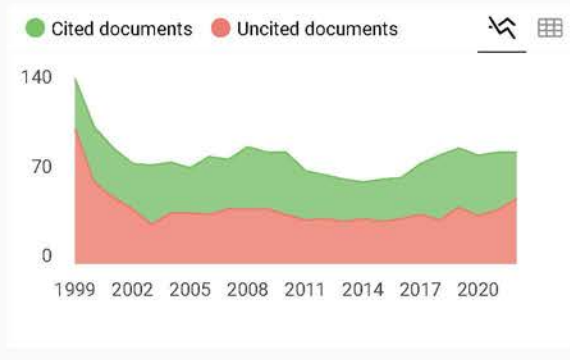
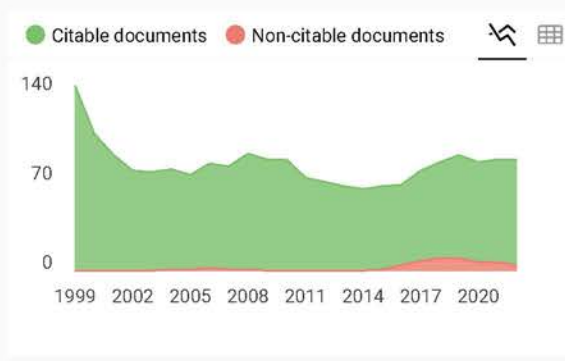
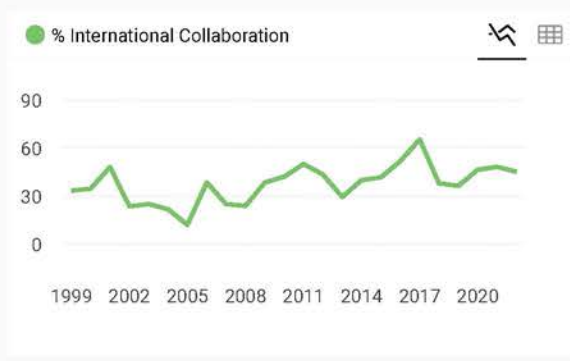
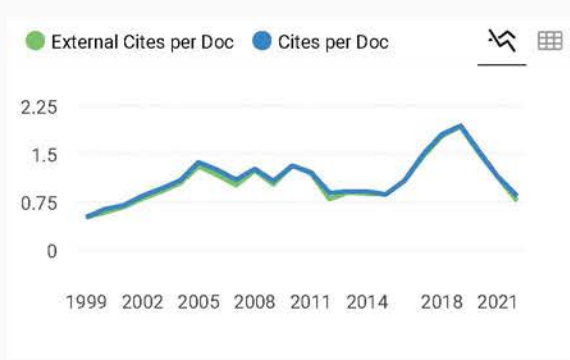
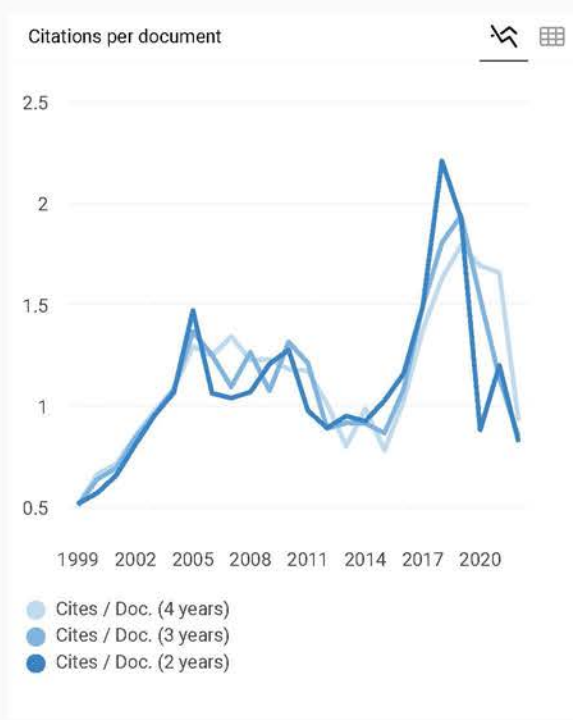
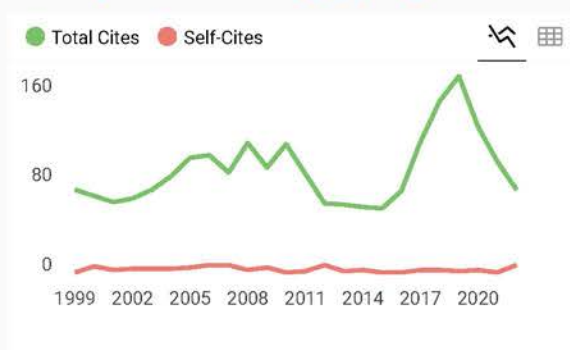
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