## On the finiteness of the reachability set for jumping Petri nets

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## ABSTRACT.

In this paper we extend the decidability result concerning the finiteness of the reachability set of a net from classical Petri nets to jumping Petri nets.

## REFERENCES

- [1] Desel, J., Reisig, W. and Rozenberg, G., (Eds.), Lectures on Concurrency and Petri Nets. Advances in Petri Nets 2004, Lecture Notes in Computer Science 3098, Springer-Verlag, 2004
- [2] Finkel, A., The minimal coverability graph for Petri nets, in Advanced in Petri Nets 1993, Lecture Notes in Computer Science 674, pp. 210-243, Springer-Verlag, 1993
- [3] Jucan T. and Ţiplea, F.L., Petri Nets. Theory and Application (in romanian), Romanian Academy Publishing House, Bucharest, 2nd edition, 1999
- [4] Karp, R.M. and Miller, R.E., Parallel program schemata, Journal of Computer and System Sciences, 3 (1969), No. 3, 147-195
- [5] Reisig, W., Petri Nets. An Introduction, Springer-Verlag, Berlin, 1985
- [6] Reisig, W., Place/Transition systems, In Petri Nets: Central Models and Their Properties. Advanced in Petri Nets 1986, Part I, volume 254 of Lecture Notes in Computer Science, pp. 117-141, Springer-Verlag, 1987
- [7] Ţiplea, F.L. and Jucan, T., Jumping Petri nets, Foundations of Computing and Decision Sciences, 19 (1994), No. 4, 319-332
- [8] Tiplea, F.L. and Mäkinen, E., Jumping Petri nets. Specific properties, Fundamenta Informaticae, 32 (1997), 373-392
- [9] Vidraşcu, C. and Jucan, T., On coverability structures for jumping Petri nets, Scientific Annals of the University "Al. I. Cuza" of Iaşi, Computer Science Section, IX (2000), 1-26
- [10] Vidraşcu, C., Structural properties of Petri nets. PhD thesis (in romanian), Technical report of the University "Al. I. Cuza" of Iaşi, Computer Science Department, tr04-04 (2004)
- [11] Vidraşcu, C., Boundedness problems for jumping Petri nets, ROMAI Journal, 3 (2007), No. 1, 213-232

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