Groups, Logic, and Computation. GAGTA-2025

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The Collatz $3x + 1$ Conjecture and Self-Similar Groups.

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Abstract:

In my talk, based on a joint work with Zoran Sunik, I will explain the relation between three topics listed in the title, present some results and formulate open problems. If time permits, some results obtained with D. Savchuk and Z. Sunik concerning the ergodic decomposition of automorphisms of rooted trees will be presented as well.