Continuous-time Markov decision processes with the finite horizon

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Abstract: This talk focuses on the *finite horizon optimality* for continuous-time Markov decision processes within the class of all randomized *history-dependent* policies, for which some unsolved problems are raised by A.A. Yushkevich (*Theory Probab. Appl.* **22**, 215-235,1977). In this talk, we will report our progress on the finite horizon optimality, and show our solutions to some of the unsolved problems.