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The computer will teach the police to act unpredictably

Police Los Andzhelesskogo airport will begin to carry out patrols on the schemes drawn up a computer program. Plans provide complete unpredictability of the movements of police, said University of Southern California (University of South Carolina).

Patrol at the airport are responsible for the lack of people, representing a potential danger. Who exactly are the possible opponents (hooligans, smugglers, terrorists), how many and where they are unknown, so the police are the main tool for regular checks territory.

If the police act on the same standard pattern, its actions are predictable and therefore somewhat irrelevant. Observe the police long enough clever adversary can detect weak spots them and use them.

This problem involved professionals on the theory of games and artificially intelligence from the University of Southern California under the leadership of Milinda Tambo (Milind Tambe). In this paper, attended, and other research centers, has provided financial support to the Department of National Security. PhD Pravin Paruchuri (Praveen Paruchuri) wrote a thesis entitled "Let the opponent guess: security through randomization strategy."

Paruchuri created a general algorithm that can use one of several players forced to act first, and not wishing to discover the rest of his strategy. As a practical application group has developed a program to patrol. The program introduces the plan area, the number of security personnel, their working hours and other relevant data. The output is given patrol scheme: where and when a team should go. The program takes into account all the factors that gives full coverage patrolled area and ensure the unpredictable movements of the police.

Guards Los Andzhelesskogo airport interested in the program and made suggestions for its improvement. Once the developers have taken into account these observations, the police adopted a program to adopt, yet in an experimental mode.