

## **Abstract**

The "hot hand" effect describes the phenomenon when an athlete makes a considerable increase in his performance following a series of successes. In the professional literature the "hot hand" effect was considered a fallacy until 2014, when a substantial bias was discovered in the original test method, and a new set of statistics, which controlled for the bias, was introduced. The aim of this work is to test the occurrence of "hot hand" using new methods and to create a performance analysis of both genders. Furthermore it will be proven that the "hot hand" is not a privilege of the best NBA players in the world, but can also occur in semi-professional leagues such as the Czech NBL. The first part of the thesis presents the theory of "hot-hand fallacy" and its important implications in the world of economics and finance. There is also a key review of the "hot hand" literature. In the second and third parts, the biased data and the methodology of the "hot hand" literature are presented, and a new method for controlling this bias is introduced. The results of individual analyses confirm the significant findings of the "hot" and "cold" hand and demonstrate the effectiveness of the new unbiased test. Results discussing the performance test according to gender and the possibilities of further testing are to be found in the last part of this thesis.