

# Galina Ivanova (RUS)

---

## **Tennis biomechanics today and forecasts for the future**

Biomechanics plays the role of integrated assessment that coordinate and administrate the activities of the brain. It determines the result of motor activity.

Computerization of Sport Science allowed us to simulate the process of ball's flight and rebound from the court. Digital video recording of movements in three flatness gave us a complete picture of the tennis technique modeling. We compared the quantitative characteristics of different players.

Today, it's more and more difficult to increase the results of tennis stroke. So the task of the future is to increase the tempo of game actions.

The author's investigations explained how the biomechanical and ergonomic position affect the intensity of the game action.