

## **TRAFFIC SAFETY TRENDS IN YUGOSLAVIA INTERPRETED WITHIN SMEED'S LAW AND JOKSCH'S ECONOMIC MODEL**

UDK: 656 : 81

*In this study, the traffic fatalities data were analyzed over the period from 1980 to 1990 in Yugoslavia within Smeed's law and economic model. Both models performed rather well the traffic fatalities data for 10 years period, except in two years period before the country's desintegration and war crisis by the economic model. There were underestimations of traffic fatalities rates on the prediction based on Smeed's formula, which were more pronounced in the first part of observation period. A high percentage of traffic fatalities rates is probably due to transit traffic in Yugoslavia. Over ten years of observation period there was weak relation between annual percentage changes in traffic fatalities rates and percentage change in the index of industrial production and annual changes in traffic fatalities as in Joksch's model but with somewhat different pattern of the relation.*

*Key words: traffic fatalities, Smeed's law, Joksch's model.*

## **TRENDOVI BEZBEDNOSTI SAOBRAĆAJA U JUGOSLAVIJI INTERPRETIRANI U OKVIRU SMEED-OVOG ZAKONA I JOKSCH- OVOG EKONOMSKOG MODELA**

*U ovoj studiji su analizirani podaci o fatalnim nezgodama u Jugoslaviji u toku perioda 1980 do 1991 godine u okviru Smidovog zakona i Jokšovog ekonomskog modela. Oba modela uglavnom uspešno objašnjavaju podatke o najtežim saobraćajnim nezgodama za desetogodišnji period, izuzev u jednoj do dve godine pre dezintegracije zemlje i ratne krize na osnovu ekonomskog modela. Na osnovu Smidove formule javlja se potcenjivanje procenta fatalnih nezgoda, koja su nešto izraženija u prvom opservacionom periodu. Veći procenat fatalnih saobraćajnih nezgoda se verovatno može pripisati tranzitnom saobraćaju. Tokom desetogodišnjeg opservacionog perioda postoji slabija relacija između godišnjih promena indeksa industrijske proizvodnje i godišnjih promena procenata fatalnih nezgoda u skladu sa Jokšovim modelom ali sa različitim oblikom relacije.*

*Ključne reči: fatalne saobraćajne nezgode, Smidov zakon, Jokšov model.*