



### CREATION OF A SIMULATION MODEL OF BUS TRAFFIC IN URBAN ROUTES



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#### Usage areas:



Simulation models



Discrete event (process) model



System dynamics model Socical systems **Ecosystems Ecnomics** Market and competition **Project management** Human resources Supply chains Fleet management **Transportation Call canter Business processes** Multi modal terminals Warehouses **Airports Hospitals Rail yards** Manufacturing **Battlefield** Traffic (Microscopic) **Pedestrian movement Computer hardware Control systems** 



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#### Basic tools for creating of model of buses route



#### Basic tools for creating passenger motion







#### Entering movement parameters of bus









#### The logical algorithm of bus routes



#### algorithm for simulating motion of buses begining from the same initial stop



#### simulation algorithm for routes with coincident stops







#### simple algorithm for entering parameters of traffic flow





TEXNIK

1950

RBAN

IN ERS



#### logical model of passengers boarding the bus (only one bus stop)



logical model of passengers boarding the bus (two consistent bus stops)







#### 3D view of bus route model







## Thank you for attention