

Contribution Title: TRAFFIC AND THE VISUAL PERCEPTION OF SPACE
Authors: P. Šeba
Presenting author: Šeba P.
Affiliation: University Hradec Kralove, Department of Physics, Hradec Kralove, Czech Republic
E-mail: seba@fzu.cz
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During the attempt to line up into a dense traffic people have necessarily to share a limited space under turbulent conditions. From the statistical point view it generally leads to a probability distribution of distances between the traffic objects (cars or pedestrians). But the problem is not restricted on humans. It comes up again when we try to describe the statistics of distances between perching birds or moving sheep herd. Our aim is to demonstrate that the spacing distribution is generic and independent on the nature of the object considered. We show that this fact is based on the unconscious perception of space that people share with animals. We give a simple mathematical model of this phenomenon and prove its validity on the real data that include the clearance distribution between parked cars, perching birds, pedestrians, cars moving in a dense traffic and inside a sheep herd.