



Subject: Abstract for the 1st European Symposium on NLW

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Novel Obstacles based upon modified Airbag-Systems

The novel obstacles-system is being developed at the Fraunhofer-Institut ICT at present. It is as well an anti-personnel- as an anti-material/infrastructure non-lethal weapon which can be set up very fast at every time and every site following the military requirement.

The objectives are intelligent technically matching non-lethal airbag-systems, that essentially consist of a gas-generator and an air bag. The gas-generator inflates the air bag spontaneously and strongly, so that the airbag acts in terms of combined effects as well as on the basis of its large volume as an instant barrier or a lock, and also on the basis of its impact as a kinetic means. The surface of the airbag can be provided with different functions, additionally as for example reflection, adhesion, contamination. In case of a damage to the airbag, the airbag is setting free gaseous-/powdery irritants.

It should be mentioned that there is a lot of options of this systems including further functions. Additionally it can be designed for the combination with other non-lethal means like slippery foam or pyrotechnics, etc. These multi-effects may lead to complementary and synergetic effects and are therefore of particular importance.

With regard to the applications, the impact-system can be deployed as well as against personnel, so for the purposes of repelling or separating groups of persons, as against vehicles ("knocking over").

Furthermore, it seem to be suitable for applications to close openings/entrances to parts of the infrastructure.