

Multi-spectral Measurement of NLW Effects
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Abstract:

Most NLW use new methods of engagement. It is currently difficult to measure these effects in a way that the results can be reproduced. Animal or human experiments are not appropriate because of ethical reasons. You would also need a lot of data for statistically valid results. A solution for this problem (of measurement) is a dummy equipped with multi-channel sensors. By using a dummy one can measure either singular or parallel all mechanical, chemical, electrical, optical and acoustical effects. The main objective is to show the effects of a singular NLW on a human being as well as the effects of a combined use of NLW. The measurement and diagnostic equipment should be able to show the results for both cases (singular or combined NLW measurement). For example two singular NLW do not incapacitate a man but the combination of two NLW does. Furthermore it should be indicated if the NLW produces severe or residual damage. The measuring equipment should be able to deliver reproducible data.