

## Statement of Contribution

Manuscript number FFEMS-9059 "Fatigue and overstress indicators for ultra-light and light aircraft"

M. Karuskevich – proposed the idea, designed and directed the project.

M. Karuskevich and T. Maslak wrote the manuscript with input from all authors.

S. Ignatovich developed the theoretical model of the deformation relief clusters evolution and coalescence.

T. Maslak proposed to use Fractal Analysis for the quantitative description of the deformation relief.

T. Maslak and O. Karuskevich designed and performed the experiments and performed the calculations.

Ł. Pejkowski performed the Finite Elements Stress-Strain Analysis of the sensors to ensure their optimum sensitivity.

O. Karuskevich and P. Kurdel worked on the practical use of the proposed sensors on the Light aircraft.