

MELUTA

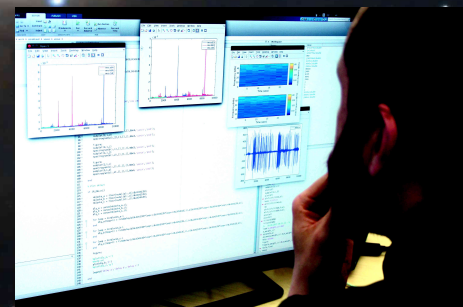
PASSION FOR ACOUSTICS & VIBROACOUSTICS

Finnish Space Industry Days 2019
Speaker D.Sc Jouko Suokas
Board Member of Meluta Oy

UNDERSTANDING PHENOMENA

SIGNAL ANALYSIS OF AUDIO & VIBRATION DATA

— *significant conclusions about
the operation of an object,
its surroundings and changes in structures*



SITUATION AWARENESS AUTONOMOUS DEVICES

AUDIO SOURCE IDENTIFICATION,
CLASSIFICATION —

Real-time modelling of the
surroundings by adding audio to
the existing sensor collection



SITUATION AWARENESS CUSTOMER CASE #1

OBJECT WAS LISTENING ITS
SURROUNDINGS WITH
MICROPHONE ARRAY

- Classification by neural network
- Direction of arrival
- Decoding message
- Signalling operator



BREAKAGE PREVENTION

CUSTOMER CASE #2

MACHINE WAS MONITORED BY
EXTREMELY ROBUST SENSOR
DEVELOPED BY MELUTA

Alert when the specific vibrations
were detected — before any
damage



ANYTHING
WHICH SEEMS
IMPOSSIBLE?

WE WILL LISTEN TO
IT AND CREATE THE
BEST COMPLETE
SOLUTION FOR YOU

THANK YOU!

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