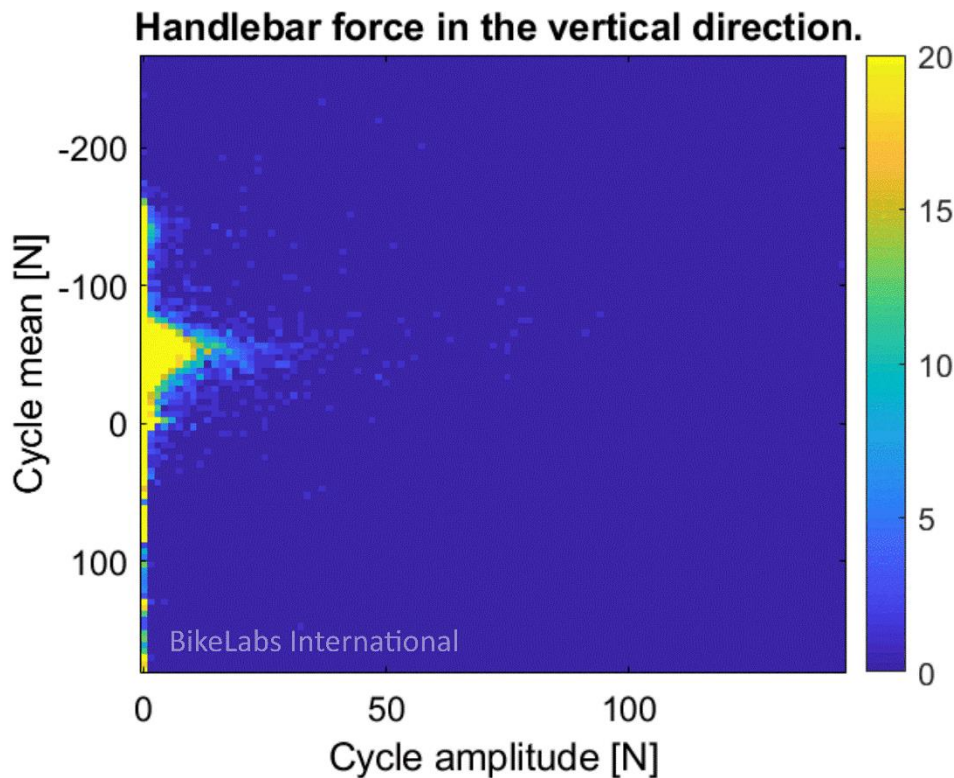


Data analysis

Data analysis from road load data is key in understanding how the bicycle interacts with the rider and the road, in terms of stress/strain, acceleration or force. Time domain data often looks complicated and only after careful analysis, patterns and load diagrams can be extracted and understood from it.



Features:

- Analysis of stress/strain, acceleration and force.
- Rainflow analysis: convert time domain data into individual strain or force cycles with an amplitude and mean value. This forms the basis for SN-curves.
- Frequency analysis (FFT, PSD, ESD): what's the frequency content from road load data or detect resonance frequencies.
- Histogram representation of data