

SAGA

Tools-Import-LAS

Shapes-Point Cloud-Point Cloud Reclassifier/Subset extractor-

Tools-Import-Grids-Import Grid from XYZ

Tools-Shapes-Shape-Grid Tools – Add Grid Values to Points (rozne warianty)

Tools-Table-Field Calculator- f3-fi

Tools-Import/Export-Shapes-Export Point Cloud to Text File

read1.m

```
clear;
plik=fopen('delta.txt'); #otwórz plik
T=fscanf(plik,'%f'); #wczytaj floaty do macierzy
fclose(plik)
```

analiza1.m

```
T1=T([T>-.99999]);
statistics(T1)
n=rows(T1)
min1=min(T1)
max1=max(T1)

me=mean(T1)
sd=std(T1)

md=median(T1)
abs1=abs(T1-md);
nmad=1.4826*median(abs1)
b=sum(abs1)/n
sd_laplace=2^0.5*b
sd_2times=1.96*sd

p1=0.975;
p2=0.95;
f1_inv=norminv(p1,me,sd)
f2_inv=norminv(p1,md,nmad)
f3_inv=md-b*sign(p1-0.5)*log(1-2*abs(p1-0.5))
percentil_975=prctile(T1,p1*100)
percentil_95=prctile(abs(T1),p2*100)
```

```
histfit(T([T>=-1 & T<=1]),100)
```

n				
min				
max				
mean				
sd				
median				
NMAD				
b				
$2^{0.5} b$				
1.96σ				
$F_1^{-1}(0.975)$				
$F_2^{-1}(0.975)$				
$F_3^{-1}(0.975)$				
P (0.95)				
Percentyl (0.975)				
histogram				
QQplot				