

aiDoseBooster

aiDoseBooster denoises a single image or an entire tilt series using a previously trained neural network.

aiDoseBooster can be used without a configuration file and all parameters can be provided by command line arguments. For convenience, parameters can also be given using a configuration file with the **-u** command line argument. Note: If a parameter is passed by file and by command line, the command line overrides the file.

Options are:

CudaDeviceID

The deviceID of the GPU to use.

Argument for command line: **-d** or **--CudaDeviceID**

Type: **int**

Option is mandatory: **false**

Default value if not set: **0**

Input

The file to process.

Argument for command line: **-i** or **--Input**

Type: **string**

Option is mandatory: **true**

Output

The file to write the result to. If not provided the input file is appended by 'Denoised'

Argument for command line: **-o** or **--Output**

Type: **string**

Option is mandatory: **false**

Default value if not set: **"**

Network

The file with the trained network configuration.

Argument for command line: **-n** or **--Network**

Type: **string**

Option is mandatory: **true**

Scale

The denoised image values are scaled by this factor.

Argument for command line: **-s** or **--Scale**

Type: **float**

Option is mandatory: **false**

Default value if not set: **1**

Offset

The denoised image values are offset by this value (after scaling).

Argument for command line: **-off** or **--Offset**

Type: **float**

Option is mandatory: **false**

Default value if not set: **0**

OutputDataType

The datatype of the aligned image.

Argument for command line: **-dt** or **--OutputDataType**

Type: one of [**FLOAT**, **SAME**, **SHORT**, **UCHAR**, **USHORT**]

Option is mandatory: **false**

Default value if not set: **SAME**

Possible notations:

- **FLOAT**: FLOAT, float, Float
- **SAME**: SAME, same, Same
- **SHORT**: SHORT, short, Short
- **UCHAR**: UCHAR, uchar, Uchar, UChar
- **USHORT**: USHORT, ushort, Ushort, UShort