Rete: Alexnet.

Dataset: ORIGA-light (168 glaucoma / 480 normali)

Split: 0.8 training / 0.2 validation (640 elementi)

Augmentation: Null

Options:

```
    'MiniBatchSize',10 , ...
    'MaxEpochs',10, ...
    'InitialLearnRate', 0.0001, ...
    'Shuffle','every-epoch', ...
    'ValidationData',testAug, ...
    'ValidationFrequency',*valFrequency, ...
    'Verbose',false, ...
    'Plots','training-progress'

*valFrequency = floor(numel(augimdsTrain.Files)/miniBatchSize);
```

Accuracy: 0. 7734

Test:

Glaucoma

Im0643_g_ORIGA 0.1703 0.8297
Im0644_g_ORIGA 0.1926 0.8074
Im0645_g_ORIGA 0.8373 0.1627 T
Im0646_g_ORIGA 0.8223 0.1777 T
Im0647_g_ORIGA 0.6499 0.3501 T

Normali

Im0478_ORIGA 0.5245 0.4755
Im0479_ORIGA 0.0647 0.9353 T
Im0480_ORIGA 0.8528 0.1472
Im0481_ORIGA 0.7681 0.2319
Im0482_ORIGA 0.0517 0.9483 T

Rete: Alexnet.

Dataset: ORIGA-light (168 glaucoma / 480 normali)

Split: 0.8 training / 0.2 validation (640 elementi)

Augmentation:

```
pixelRange = [-30 30];
scaleRange = [0.9 1.1];
angleRange = [-45 45];
imageAugmenter = imageDataAugmenter( ...
    'RandXReflection',true, ...
    'RandXTranslation',pixelRange, ...
    'RandYTranslation',pixelRange, ...
    'RandXScale',scaleRange, ...
    'RandYScale',scaleRange, ...
    'RandRotation', angleRange);
```

Options:

```
    'MiniBatchSize',10 , ...
    'MaxEpochs',10, ...
    'InitialLearnRate', 0.0001, ...
    'Shuffle','every-epoch', ...
    'ValidationData',testAug, ...
    'ValidationFrequency',*valFrequency, ...
    'Verbose',false, ...
    'Plots','training-progress'

*valFrequency = floor(numel(augimdsTrain.Files)/miniBatchSize);
```

Accuracy: 0.7891

Test:

Glaucoma

Im0643_g_ORIGA	0.1873	0.8127	
Im0644_g_ORIGA	0.4416	0.5584	
Im0645_g_ORIGA	0.4719	0.5281	
Im0646_g_ORIGA	0.3754	0.6246	
Im0647_g_ORIGA	0.4781	0.5219	

Normali

Im0478_ORIGA	0.4150	0.5850 T	/
Im0479_ORIGA	0.1984	0.8016 T	/
Im0480_ORIGA	0.3868	0.6132 T	/
Im0481_ORIGA	0.5570	0.4430	/
Im0482_ORIGA	0.0671	0.9329 T	/

Rete: Alexnet.

Dataset: ORIGA-light (168 glaucoma / 480 normali)

Split: 0.8 training / 0.2 validation (640 elementi)

Augmentation:

```
      pixelRange = [-30 30];
      scaleRange = [0.9 1.1];
      angleRange = [-90 90];
      imageAugmenter = imageDataAugmenter( ...
    'RandXReflection',true, ...
    'RandXTranslation',pixelRange, ...
    'RandYTranslation',pixelRange, ...
    'RandXScale',scaleRange, ...
    'RandYScale',scaleRange, ...
    'RandRotation', angleRange);
```

Options:

```
    miniBatchSize = 10;
valFrequency = floor(numel(augimdsTrain.Files)/miniBatchSize);
options = trainingOptions('sgdm', ...
    'MiniBatchSize',miniBatchSize, ...
    'MaxEpochs',14, ...
    'InitialLearnRate',0.00008, ...
    'Shuffle','every-epoch', ...
```

```
    'ValidationData',testAug, ...
    'ValidationFrequency',valFrequency, ...
    'Verbose',false, ...
    'Plots','training-progress')
```

Accuracy: 0.7734

Test:

Glaucoma

Im0643_g_ORIGA	0.2756	0.7244	
Im0644_g_ORIGA	0.3130	0.6870	
Im0645_g_ORIGA	0.4507	0.5493	
Im0646_g_ORIGA	0.3634	0.6366	
Im0647_g_ORIGA	0.2947	0.7053	

Normali

Im0478_ORIGA	0.5284	0.4716	
Im0479_ORIGA	0.1984	0.8016	T
Im0480_ORIGA	0.2945	0.7055	T
Im0481_ORIGA	0.3005	0.6995	T
Im0482_ORIGA	0.1388	0.8612	T