

G22-2021 - Bug #475

Gamma Correction

01/05/2022 01:19 AM - Anonymous

Status:	Resolved	Start date:	12/24/2021
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	1.00 hour
Description			
A linearly increasing intensity controller parameter 'l' range from 0 to 1 should be used to achieve a smooth gamma correction. It was incorrect to raise every RGB value in each pixel to the power of gamma.			
<pre>def gammaCorrection(img, direction, gamma): if direction == 'left': for rows in range(getImageHeight(img)): for columns in range(getImageWidth(img)-overlap_pixels-1, getImageWidth(img)): img[rows][columns][:] *= np.power(intensityController(columns-(getImageWidth(img)-overlap_pixels-1), monotonicity='increase'), gamma) return img elif direction == 'right': for rows in range(getImageHeight(img)): for columns in range(overlap_pixels-1): img[rows][columns][:] *= np.power(intensityController(columns, monotonicity='decrease'), gamma) return img</pre>			

History

#1 - 01/05/2022 01:20 AM - Anonymous

- Status changed from New to Resolved
- Start date changed from 01/05/2022 to 12/24/2021