```
def CVIONS_FAST(image, LoG_sigma=1.5, threshold=0.3):
# some computer vision algorithms
image_log = gaussian_laplace(image, LoG_sigma)
image_log = 1 - (image_log - np.min(image_log)) / (np.max(image_log) - np.min(image_log))
image_bn = np.where(image_log > threshold, 1, 0)
image_lb = label(image_bn)
# label ions
lb_num = np.max(image_lb)
para num = 4
para_cv = np.zeros((lb_num, para_num))
for lb in range(1, lb_num + 1):
    count = image[image_lb == lb]
    wgt = count / np.sum(count)
    y, x = np.where(image_lb == lb)
    max_count = np.max(count)
    x0 = np.average(x, weights=wgt)
    y0 = np.average(y, weights=wgt)
    s = np.count_nonzero(image_lb == lb)
    para_cv[lb - 1, :] = [max_count, x0, y0, s]
# calculate ion positions
order = np.argsort(para_cv[:, 1])
for i in range(para_num):
    para_cv[:, i] = para_cv[order, i]
return para_cv
```