

1 - Browse tab is to find pages and adjust image

File Browse Cropping ViewScan Premium - Advanced Mode

1. In Browse TAB - Find the pages you want & adjust the image

- Start with Camera Position / Zoom buttons (*Optical Zoom*) and Camera Focus buttons zoom-in just enough to see Dates, Issue markers & pages, (Rotate and invert if needed) then use that to find the correct spot to scan
- Next use Camera Position/ Zoom-in as far in as you can for best quality then focus in until sharp
- Only use Digital Zoom to make the part you want fit the screen
- Use the "Manual adjustment" button to fine tune Contrast brightness etc.

Rotate or Mirror if needed

Zoom IN as far as possible for best

Focus after Zooming

Only use Digital Zoom after Camera Zoom To make the content fit the screen.

Tweak contrast so that page is mostly white and text is mostly black and text is easily readable.

The second moment of $\hat{S}_n(w)$ is given by

$$m_2(w_1, w_2) = \frac{1}{2\delta} p_\delta(w_2) \quad (30)$$

$$m_2(w_1, w_2) = \frac{1}{2} \left(\frac{\eta_0 MT_c}{\delta a^2} \right)^2 \int_0^{2MT_c\delta} \left[\text{Si}x - \frac{1 - \cos x}{x} \right] \cdot \left[\frac{1}{\left[\left(\frac{MT_c}{a} \right)^2 + [(w + \delta)MT_c - x]^2 \right]^2} + \frac{1}{\left[\left(\frac{MT_c}{a} \right)^2 + [(w - \delta)MT_c + x]^2 \right]^2} \right] dx. \quad (33)$$

Using (29) and (33), it is now possible to determine reasonable values for M and δ . Typical values of the mean and standard derivation are shown in Table 1, where $MT_c = 100$ and $\delta = 1$. If the ratio of the mean to the standard derivation is as a figure of merit, the ratios for the cases shown in Table 1 are all in the vicinity of 18 dB. Since the bias is not excessive in any of the cases considered, these values of MT_c and δ are reasonable choices. Unfortunately, these numbers are not compatible with implementation employing current technology of SAW devices, because integration times are typically of the order of tens of microseconds. Therefore, assuming a chip rate in the Mchip/s range, the dimension of T_c is μs , and $MT_c = 100 \mu s$ is too long an integration time for state-of-the-art SAW devices. However, there are currently experimental techniques available using combinations of SAW devices and charge-coupled devices which attempt to circumvent the short integration time of SAW devices alone (see, e.g., [7]). Hence, this problem does not appear to be insurmountable.

Alternately, one might back off from demanding an 18 dB figure-of-merit. For example, if the noise process is observed for $50 \mu s$ instead of $100 \mu s$, the average value of the estimate will stay about the same, but the variance will increase by about 3 dB for the points listed in Table 1. Since $50 \mu s$ integration times are achievable with current SAW devices, if one can live with a figure-of-merit of roughly 15 dB, the scheme proposed here is immediately implementable.

V. NUMERICAL RESULTS

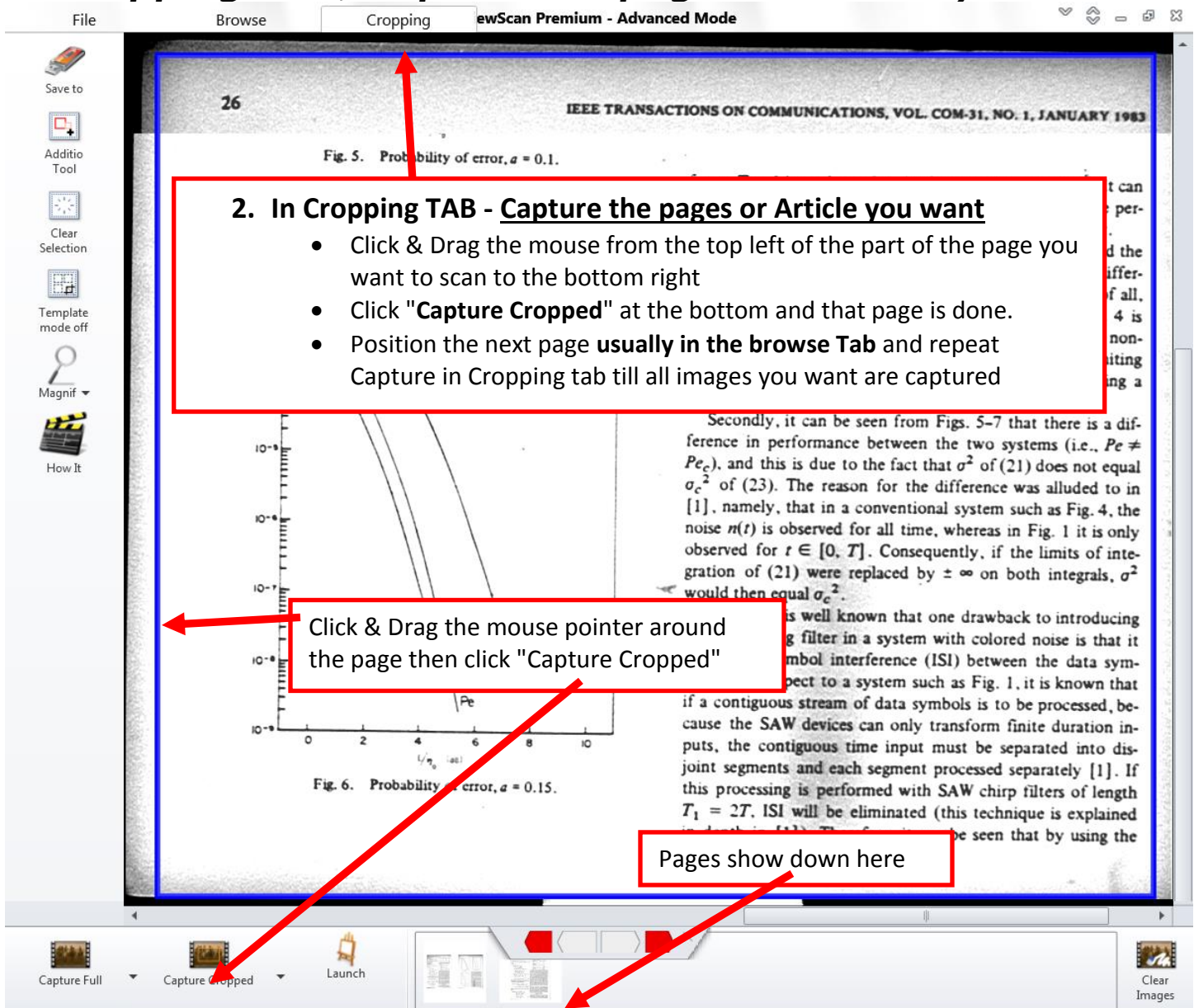
If the average probability of error for the transform domain processing system, the matched filter, and the conventional prewhitening system are compared numerically, a typical set of curves are as shown in Figs. 5-7. These curves were computed

so that the variance of the spectral estimate is approximately given by

$$\text{var}(\hat{S}_n(w)) \cong \frac{4(\eta_0/a)^2}{(MT_c(1 + a^2 w_1^2)(w_2 - w_1))^2} \cdot [(1 - \cos(w_2 - w_1)MT_c)^2 + \sin^2(w_2 - w_1)MT_c] \cdot \frac{1}{2\delta} p_\delta(w_1) \cdot \frac{1}{2\delta} p_\delta(w_2). \quad (32)$$

Capture Full Capture Cropped Launch Clear Images

2- Cropping TAB, Capture the pages or Article you want



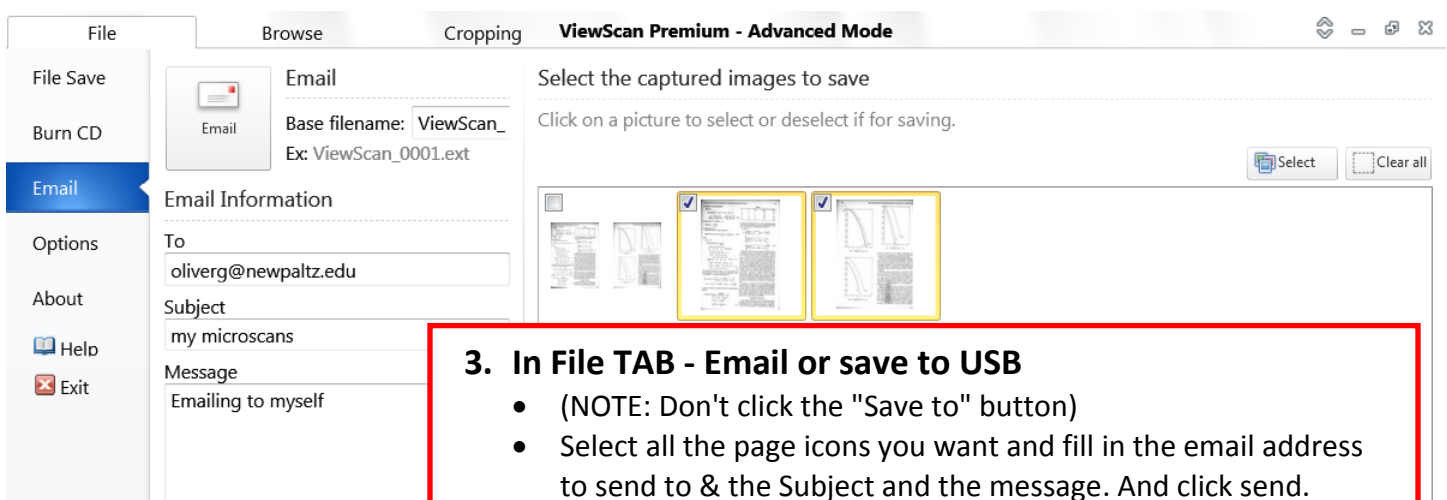
2. In Cropping TAB - **Capture the pages or Article you want**

- Click & Drag the mouse from the top left of the part of the page you want to scan to the bottom right
- Click "**Capture Cropped**" at the bottom and that page is done.
- Position the next page **usually in the browse Tab** and repeat Capture in Cropping tab till all images you want are captured

Click & Drag the mouse pointer around the page then click "Capture Cropped"

Pages show down here

3- File TAB - Email or save to USB



3. In File TAB - **Email or save to USB**

- (NOTE: Don't click the "Save to" button)
- Select all the page icons you want and fill in the email address to send to & the Subject and the message. And click send.