

Needs and Applications for Latent Processing using ULW

*NIST Latent Testing Workshop
April 5, 2006*

Discussion

■ Application Modification

- Processing
- Comparisons

■ Transaction Handling

- Auto Mailer
- Transaction Queue
- Error Notification

■ Latent Case Management

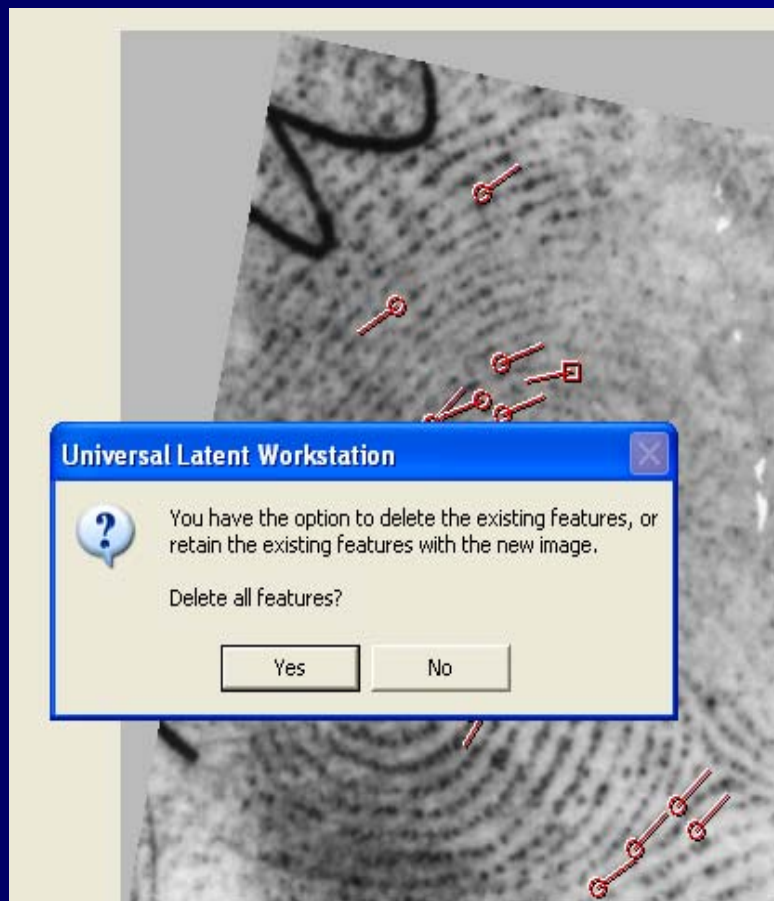
- Case Management
- Tracking statistics

Discussion

■ Future Search Capabilities

- Queued Submissions
- Latent sizing
- Simultaneous search
- Lights out processing
- Plain Impressions and Palms
- Search by Group Designation
- Reverse Search Notifications

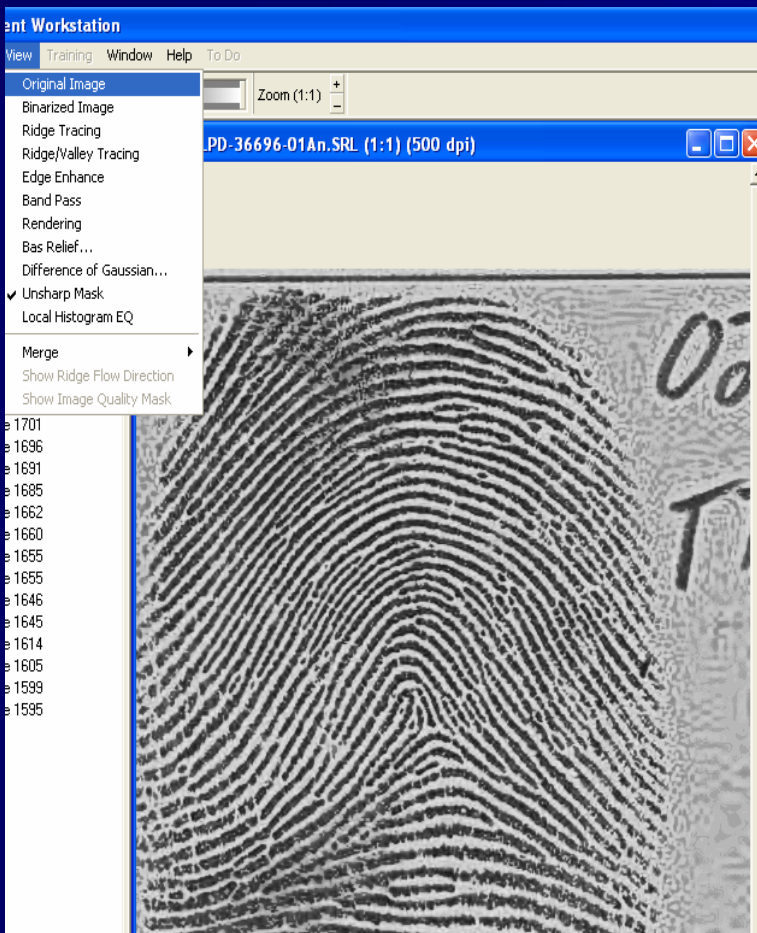
Application Modification - *Processing*



Maintain Feature Sets

- Cropping
- Image Reversal
- Image Orientation

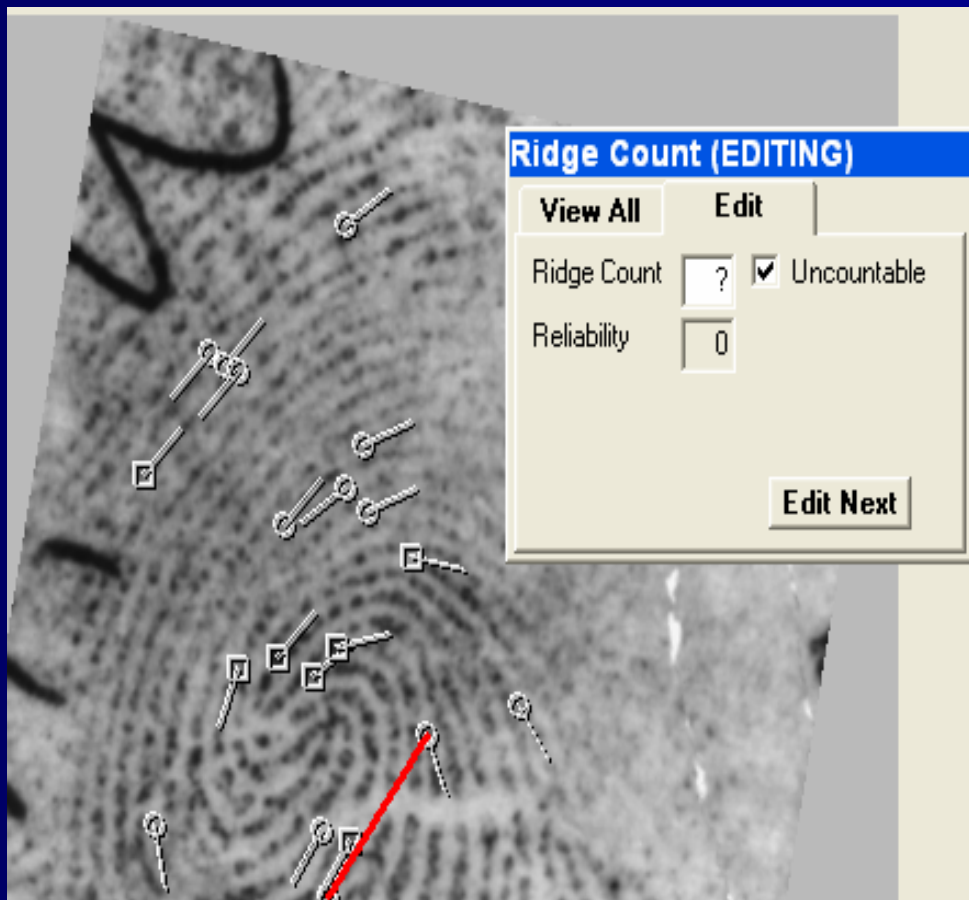
Application Modification - *Processing*



Filters

- Unsharp Mask
- Pattern removal filters
- Fade filter opacity
- Multiple filters

Application Modification - *Processing*



Ridge Counting

- Auto minutiae vs. manual plotting
- Minutiae designation?
- Clarification on ridge counting
- Time consuming

Application Modification - *Comparisons*

- Auto Size
- Features on Tenprint
- Image and minutiae mismatch



Transaction Handling

- Auto Mailer
- Indicates processing error



Transaction Handling

– Transaction Queue

Address: F:\03_28_2006

Address	Name	Size	Type	Date Modified
+	03_19_2006		File Folder	
+	03_20_2006		File Folder	
+	03_21_2006		File Folder	
+	03_22_2006		File Folder	
+	03_23_2006		File Folder	
+	03_24_2006		File Folder	
+	03_25_2006		File Folder	
+	03_26_2006		File Folder	
+	03_27_2006		File Folder	
-	03_28_2006		File Folder	
+	images		File Folder	3/29/2006 3:30 AM
+	IRQs		File Folder	3/28/2006 9:50 AM
+	03_29_2006		File Folder	
+	03_30_2006		File Folder	
-	03_31_2006		File Folder	
+	images		File Folder	
+	IRQs		File Folder	
	images		File Folder	3/29/2006 3:30 AM
	IRQs		File Folder	3/28/2006 9:50 AM
	DCS-309564RB4.IRQ	1 KB	Image Request	3/28/2006 9:43 AM
	JLJ-32806-01An.lffs	5 KB	Latent Search	3/28/2006 10:33 AM
	JLJ-32806-01n.lffs	5 KB	Latent Search	3/28/2006 10:32 AM
	JLJ-32806-02An.lffs	3 KB	Latent Search	3/28/2006 4:09 PM
	JLJ-32806-02Bn.lffs	3 KB	Latent Search	3/28/2006 4:10 PM
	JLJ-32806-02Cn.lffs	3 KB	Latent Search	3/28/2006 4:10 PM
	JLJ-32806-02n.lffs	3 KB	Latent Search	3/28/2006 4:08 PM
	LPD-81332-221An.lffs	3 KB	Latent Search	3/28/2006 3:16 PM
	LPD-81332-221Bn.lffs	3 KB	Latent Search	3/28/2006 3:17 PM
	LPD-81332-221Cn.lffs	3 KB	Latent Search	3/28/2006 3:17 PM
	LPD-81332-221Dn.lffs	3 KB	Latent Search	3/28/2006 3:17 PM
	LPD-81332-221En.lffs	3 KB	Latent Search	3/28/2006 3:18 PM
	LPD-81332-221Fn.lffs	3 KB	Latent Search	3/28/2006 3:18 PM
	Received03_28_2006.Log	1 KB	Text Document	3/28/2006 6:50 PM

Transaction Handling

– LFFS and SRL

Name	Abbr	Field	#	Value
<u>Contributor Case ID Number</u>				
▪ <u>Prefix</u>	CIN	2.010		DEB ←
▪ <u>Identifier</u>				13568 ←
<u>Contributor Case ID Extension</u>	CIX	2.011		111
<u>Controlling Agency Identifier</u>	CRI	2.073	1	DCSS17500
<u>Priority</u>	PRI	2.076		3 (Arson, drugs, person)
<u>Number of Images Returned</u>	NCR	2.079		20
<u>Add to Unsolved Latent File</u>	ULF	2.083		
<u>Note Field</u>	NOTE	2.088		

Transaction Handling

- Error Notification
- IRR's not returned
 - incorrect FBI No.

Latent Case Management

- Organize and save latent transactions by designation
 - Case number, examiner, submission no.
- Reporting statistics
 - Submissions, identifications, errors, case statistics

Future Search Capabilities

- Queued Submissions – timed release
- Latent Sizing
 - threshold allowance for non 1:1
- Simultaneous Search
- Lights out processing
 - Set threshold
 - Auto search by clusters
- Plain impressions, lower joints, palms

Future Search Capabilities

- Search by Group Designation
 - Terrorists
 - Regional
 - Gang related
 - US Visit
- Reverse Search Notifications

Questions