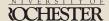
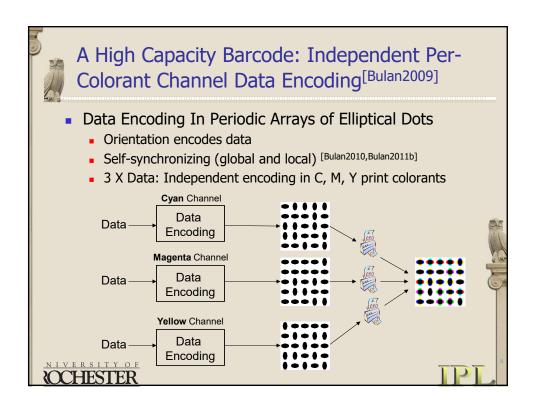


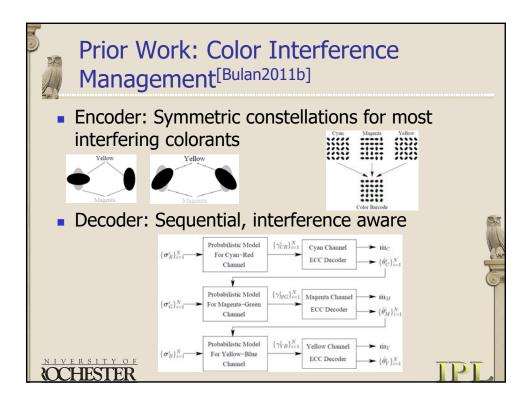


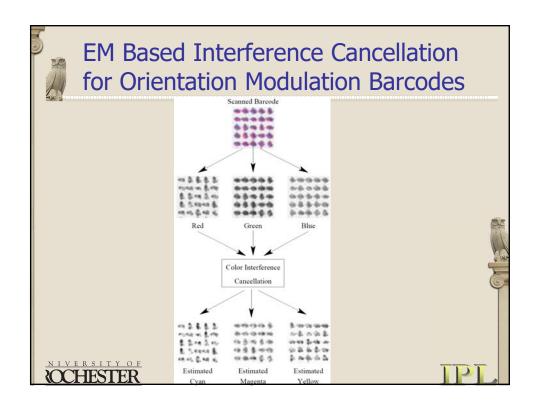
Conclusions

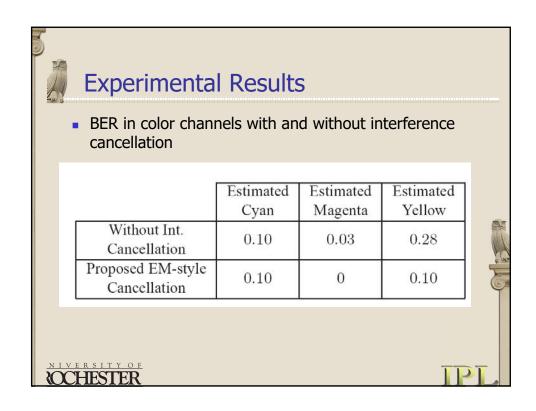
- A methodology to generalize monochrome barcodes to color
 - Utilizes built-in components from monochrome counterpart: localization, data encoding/extraction, error recovery
- Provides higher rate per unit area (x3)
- Enables greater versatility in Mobile connectivity to print
 - Advertisement monetization, multiple
- Methodology generalizes to other barcodes

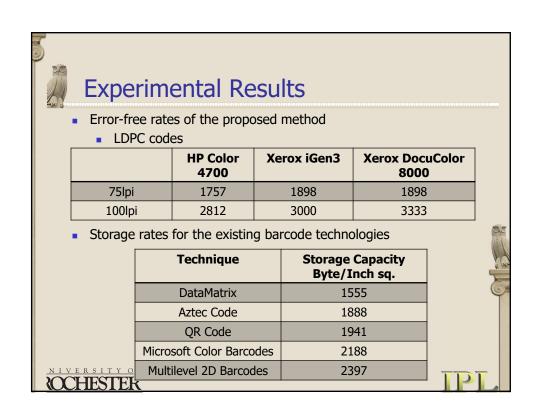


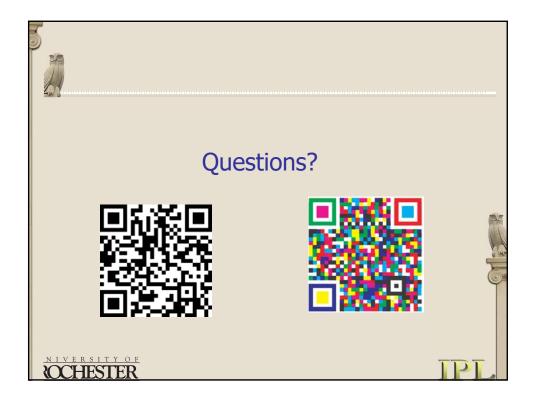


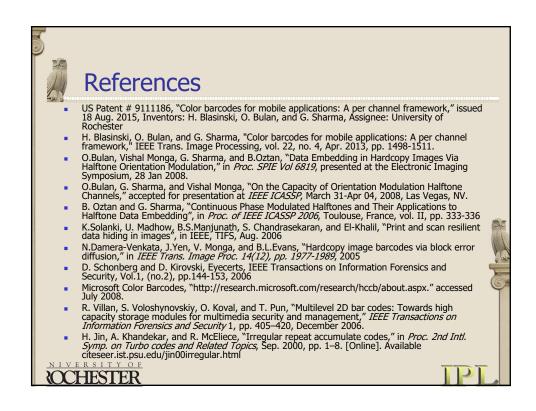


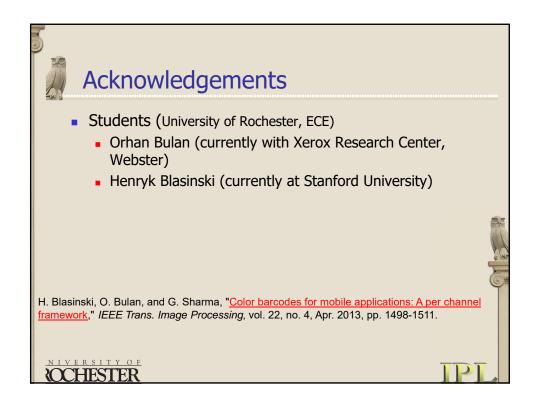




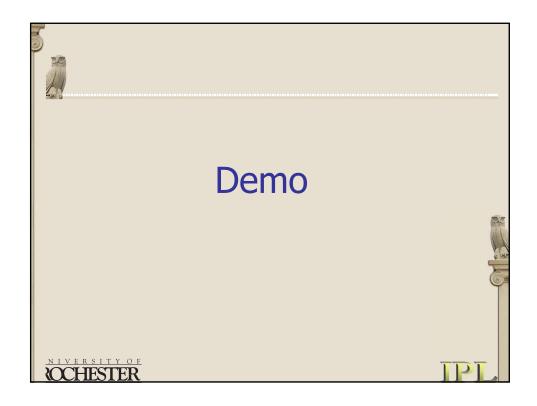


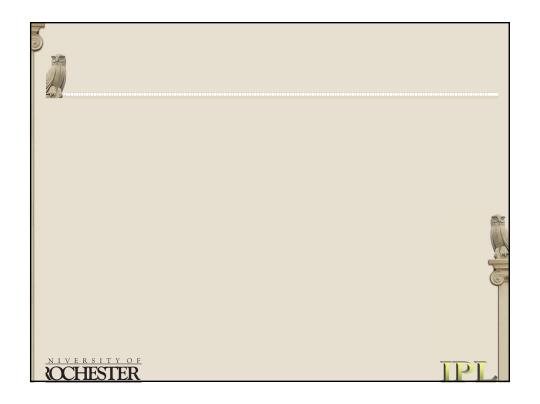














Robust Color QR Codes for Added Versatility in Mobile to Print Connectivity

- Immediacy is key in mobile applications (reducing clicks)
- Advertisement monetization
- Win-win-win
 - Consumer (privacy and transparency)
 - Advertiser (advertisement tracking, localization, crosspromotion with social media)
 - Print provider (piggybacked publicity, drawing traffic to web through print)



