

## Biometric identification of toads with digital image processing Alan Schoen, Morgan Boenke, Philippe Laroche, David M. Green Redpath Museum, McGill University























Goal: Find the matching pictures

Mark-recapture studies require a way to reognize animals. Visual recognition is a noninvasive alternative to physical tagging.





Date: Aug 17, 2010 Toe clip ID: ?





Date: June 2, 2008

Date: Aug 23, 2010



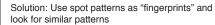
Date: Aug 20, 2010



Date: June 28, 2010







A digital recipe for spots



toad in each picture

Mark the position of the cut out the part of







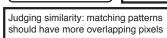




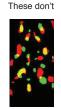


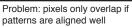
Biologists can use this GUI in the field

Date: June 2, 2010 Toe clip ID: ?









These match. If only I could covince my computer...



Date: June 5, 2008



