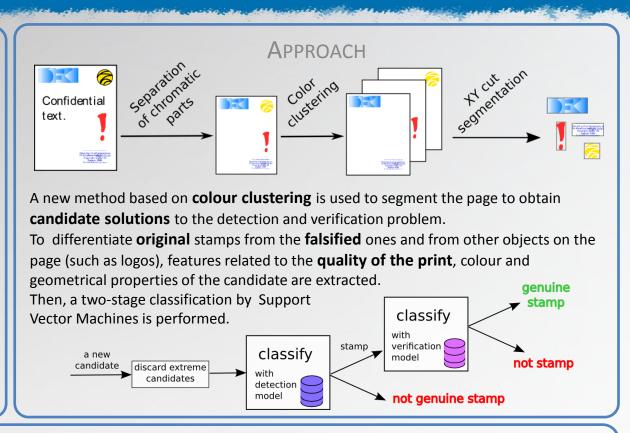
VERIFICATION OF STAMPS IN DOCUMENTS

CHALLENGE

Classical **ink stamps** and seals used for authentication of a document content have become relatively easy to forge by the **scan & print** technique since the technology is available to general public. For environments like insurance companies where a huge volume of documents is processed, an automatic **system for optical verification** of authenticity of stamps is needed.



To verify the authenticity of a stamp, it has to be first detected and segmented from a document image. However, a reliable detection of stamps in images is not a trivial task and no general solution has been given yet.



RESULTS

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0 % 3 3 6 7 7 8 6

Evaluation of the **detection** algorithm on a collection of 400 documents with stamps and many other colour objects has been done with an **accuracy of over 90%**. Even difficult cases of overlapped stamps were segmented correctly. **Verification** was evaluated on the data set mixed with copies made on 5 different copiers and in up to **95% of cases**, the authenticity of a stamp was **correctly recognized**.

