

LOC-DB Reference Extraction

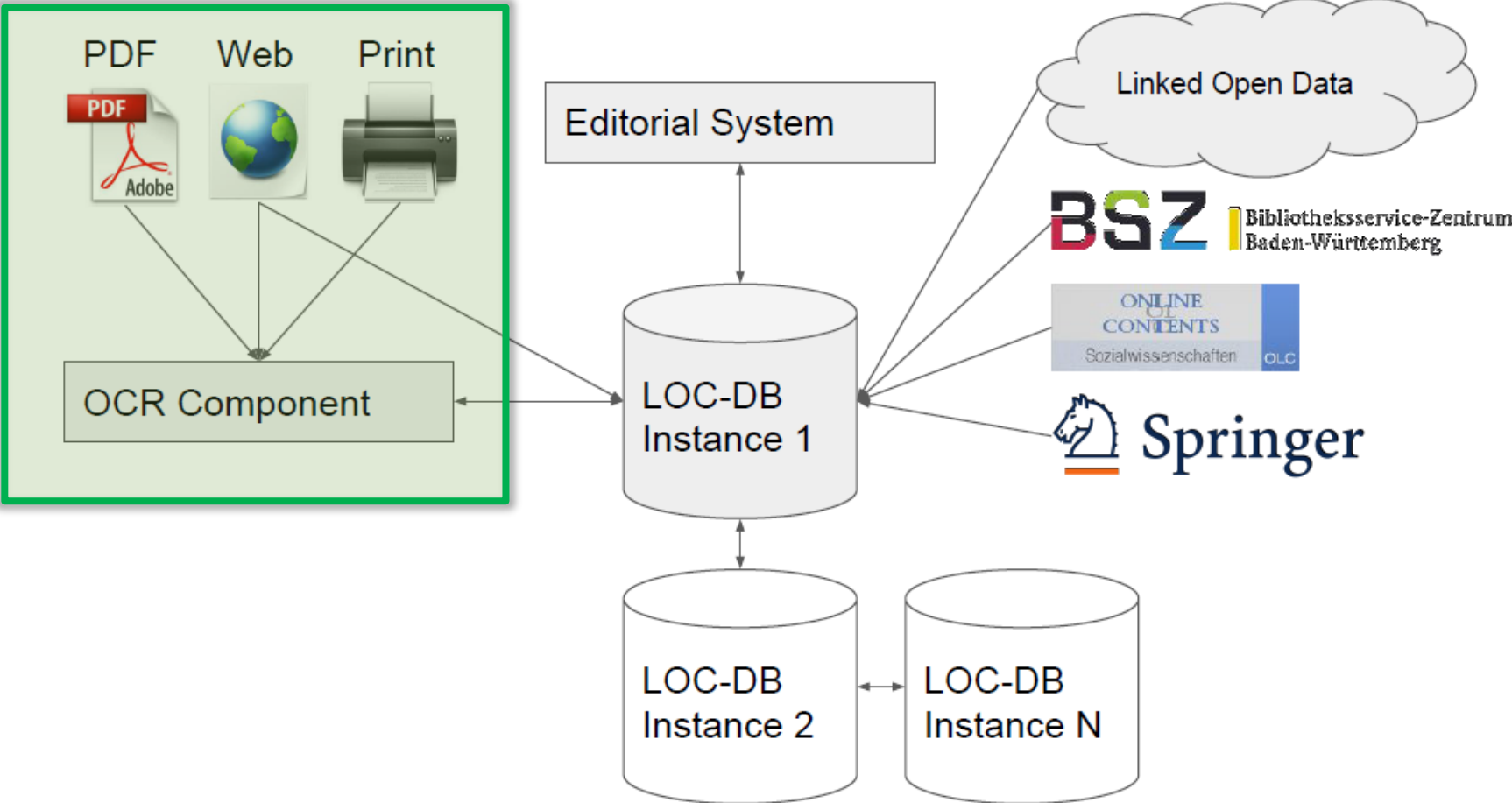
DR.-ING SHERAZ AHMED

SYED TAHSEEN RAZA RIZVI



**German
Research Center
for Artificial
Intelligence**


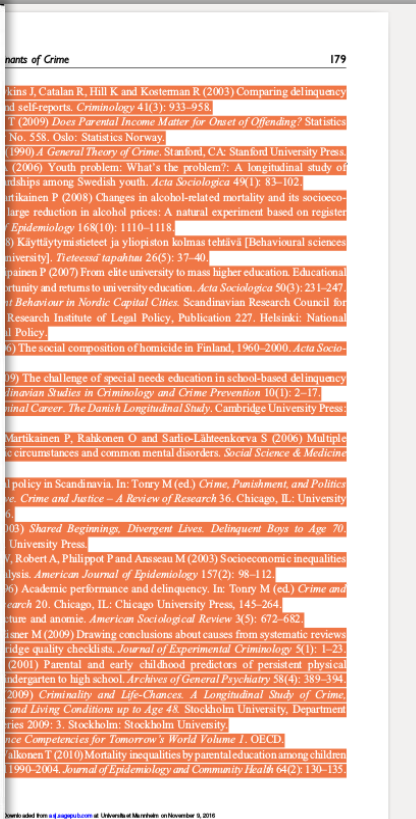
LOC-DB Architecture



LOC-DB OCR Component

Types of Input files:

- Digital Born PDF
- Scanned Documents
- XML/HTML

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Primärführung. Erinnerungskultur. Geschichtswissenschaft. In: <i>Aus Politik und Zeitgeschichte</i> B28/2001, S. 15-30. Zur Bestandsaufnahme und Orientierung in der deutschen Zeitgeschichtsforschung eine Dekade nach der Vereinigung.</p> <p>Kleemann, Christoph/Wagner, Georg (Hrsg.): Das gesplittene Land. Leben in Deutschland 1945 bis 1990. Texte und Dokumente, München 1993. <i>Sammlung von Dokumenten zu Politik, Wirtschaft, Gesellschaft und Kultur im geteilten Deutschland, mit nützlichen Einführungen.</i></p> <p>Metzler, Gabriele: Einführung in das Studium der Zeitgeschichte, Paderborn et al. 2004. <i>Führt in den Wissensstand der Zeitgeschichte des 20. Jahrhunderts, in: Geschichte und Gesellschaft</i> 28 (2002), S. 175-182. <i>Zur Forschungslandschaft und Einordnung der Bundesrepubliksgeschichte.</i></p> <p>Pothoff, Heinrich: Bonn und Ost-Berlin (1949-1982). Dialog auf höchster Ebene und vertrauliche Kanäle. 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Bonn o.J. <i>Nützliche Quellensammlung zur sozialdemokratischen Bildungspolitik.</i></p> <p>Stöwe, Klaus (Hrsg.): Die großen Regierungserklärungen der deutschen Bundeskanzler von Adenauer bis Schröder, Opladen 2002.</p> <p>Wilhelm, Ingrid (Hrsg.): Deutsche Geschichte 1962-1983. Dokumente in 2 Bänden, Frankfurt/M. 1985. <i>Nützliche Dokumentensammlung.</i></p> <p>135</p>	 <p>Journal of Crime</p> <p>179</p> <p>kins J, Catalan R, Hill K and Kosteman R (2003) Comparing delinquency self-reports. <i>Criminology</i> 41(3): 933-958</p> <p>T (2009) Does Parental Income Matter for Onset of Offending? <i>Statistics</i> No. 558. Oslo: Statistiska Norweg</p> <p>(1990) <i>A General Theory of Crime</i>. Stanford, CA: Stanford University Press</p> <p>(2006) Youth problem: What's the problem? 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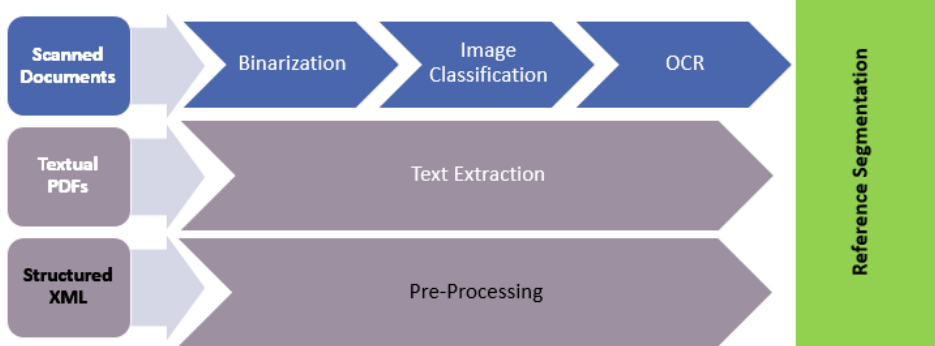
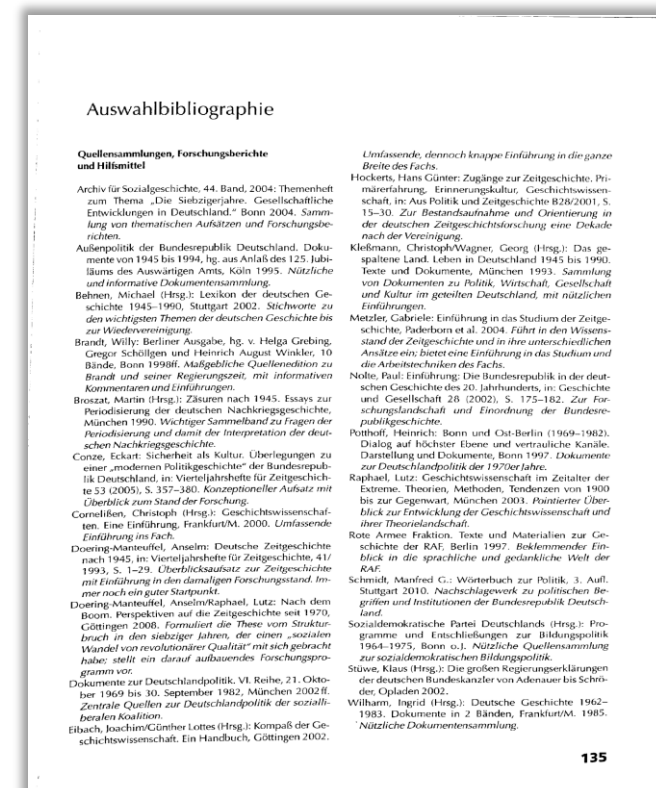
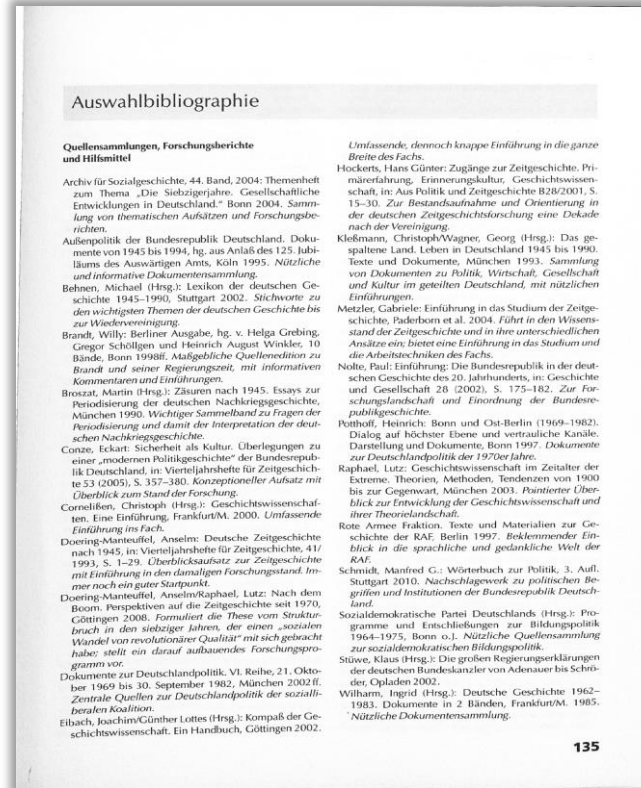
Scanned Document

Textual PDF

Reference Extraction from: Scanned Documents

Scanned Documents: Reference Extraction

- Step 1: Binarization
 - Greyscale(0-255)/color to Binary (0-1)

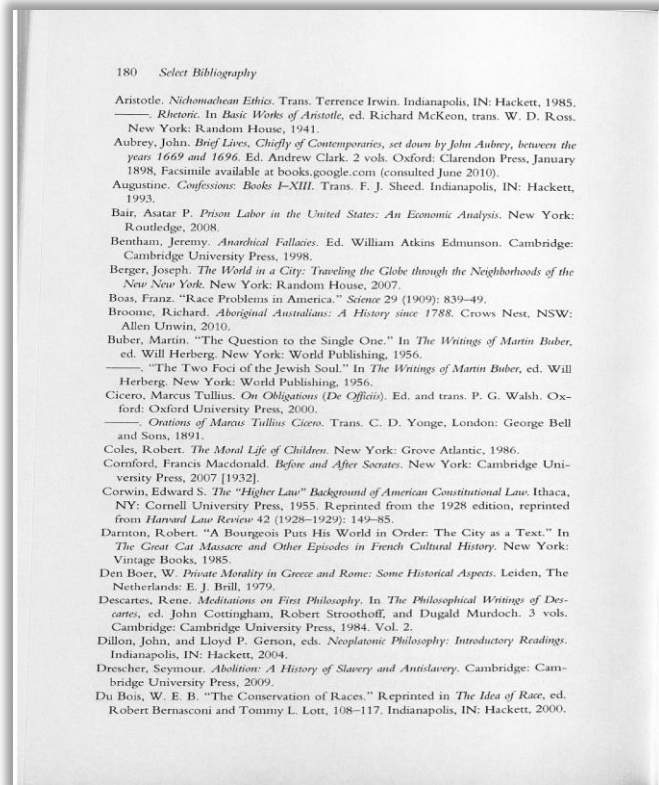
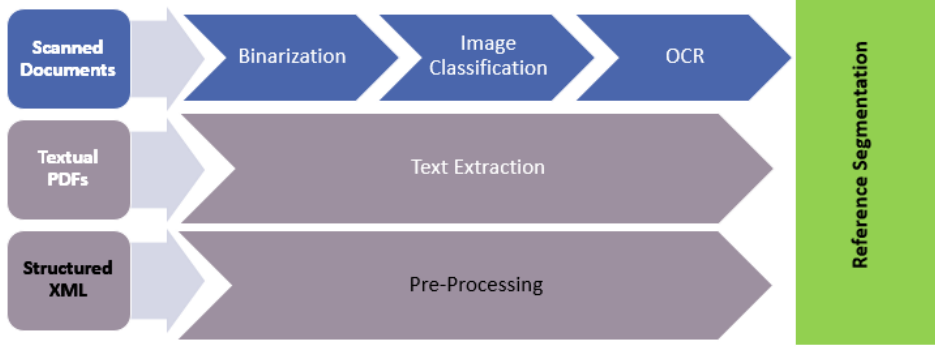
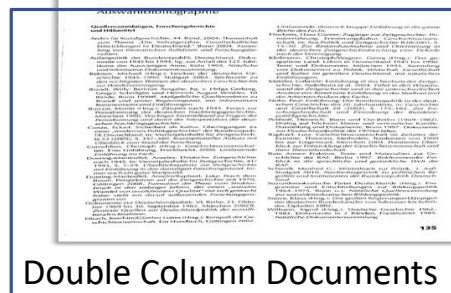
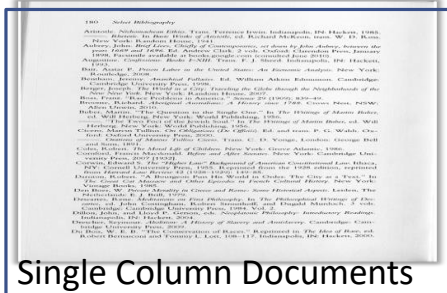


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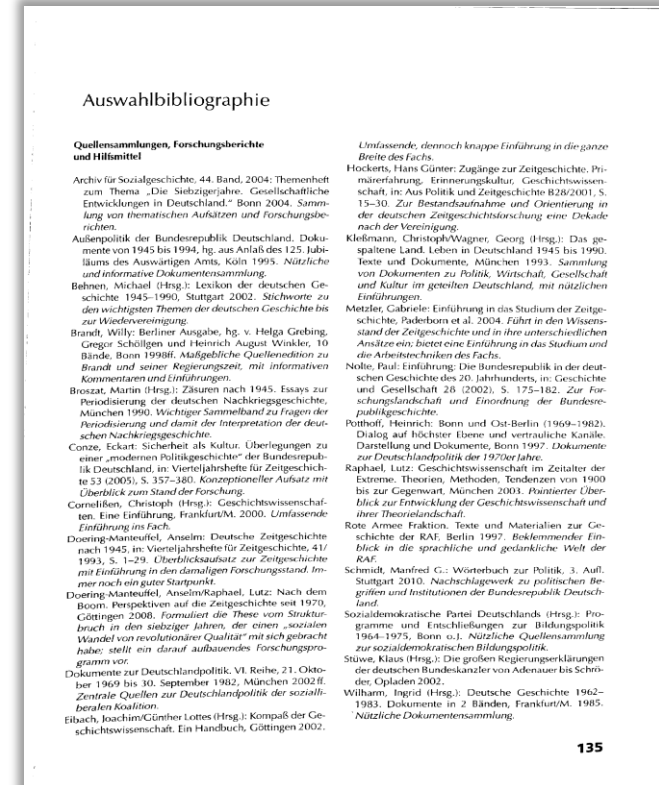
Binary Image

Scanned Documents : Reference Extraction

- Step 2: Image Classification
- Single/Double Column Documents



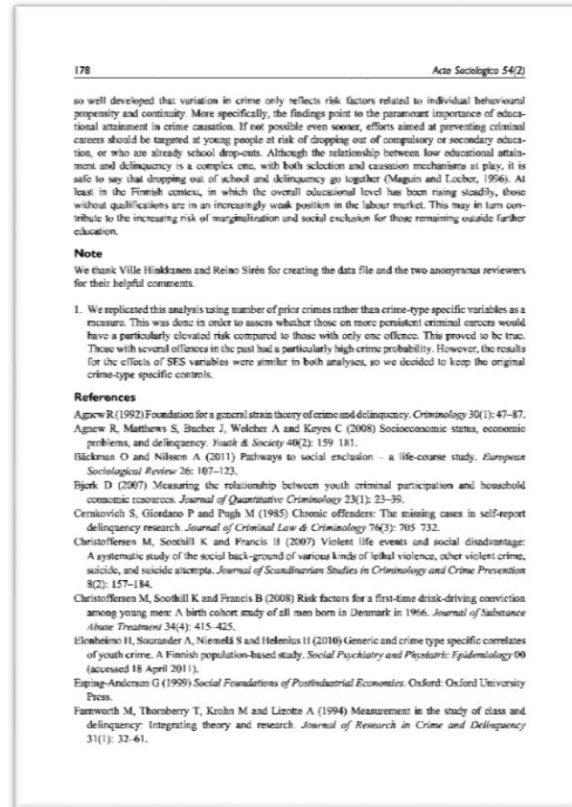
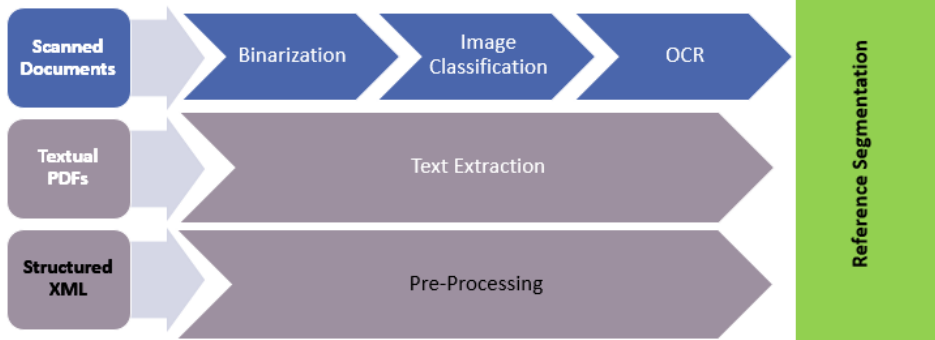
Single Column Document



Double Column Document

Scanned Documents : Reference Extraction

Step 3: OCR (Optical Character Recognition)



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Acta Sociologica 54(2)

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so well developed that variation in crime only reflects risk factors related to individual behavioural

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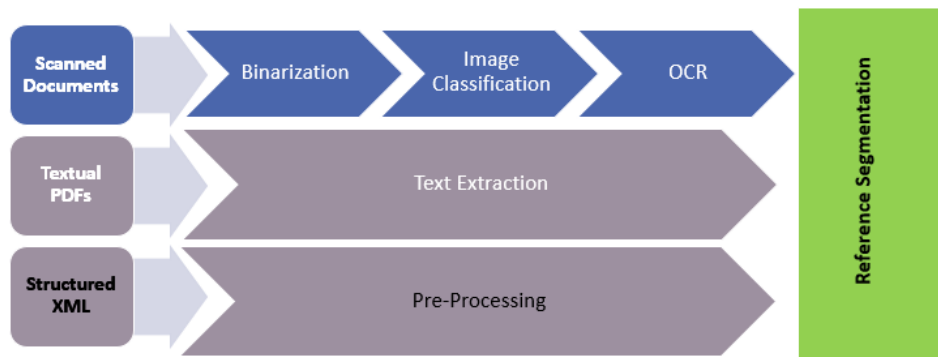
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OCR Result

Scanned Documents : Reference Extraction

- Step 4: Reference Segmentation
 - Using ParsCit



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Acta Sociologica 54(2)

so well developed that variation in crime only reflects risk factors related to individual behavioural propensity and continuity. More specifically, the findings point to the paramount importance of educational attainment in crime causation. If not possible even sooner, efforts aimed at preventing criminal careers should be targeted at young people at risk of dropping out of compulsory or secondary education, or who are already school drop-outs. Although the relationship between low educational attainment and delinquency is a complex one, with both selection and causation mechanisms at play, it is safe to say that dropping out of school and delinquency go together (Maguin and Loeber, 1996). At least in the Finnish context, in which the overall educational level has been rising steadily, those without qualifications are in an increasingly weak position in the labour market. This may in turn contribute to the increasing risk of marginalization and social exclusion for those remaining outside further education.

Note

We thank Ville Hinkkanen and Reino Sirén for creating the data file and the two anonymous reviewers for their helpful comments.

- We replicated this analysis using number of prior crimes rather than crime-type specific variables as a measure. This was done in order to assess whether those on more persistent criminal careers would have a particularly elevated risk compared to those with only one offence. This proved to be true. Those with several offences in the past had a particularly high crime probability. However, the results for the effects of SES variables were similar in both analyses, so we decided to keep the original crime-type specific controls.

References

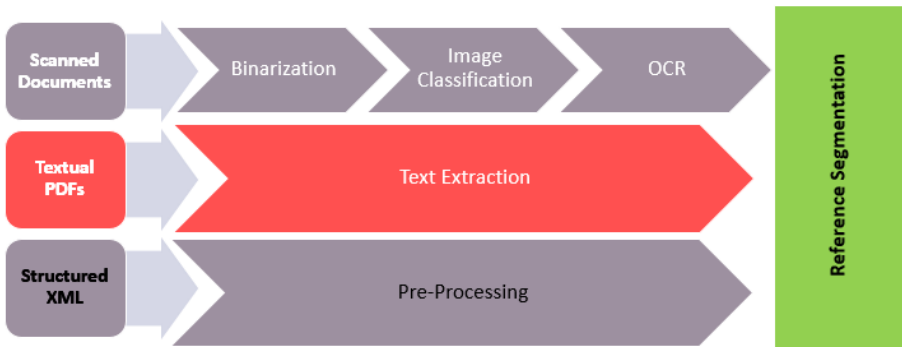
- Agnew R (1992) Foundation for a general strain theory of crime and delinquency. *Criminology* 30(1): 47–87.
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Reference Extraction from: Textual / Digital Born PDFs

Digital Born PDFs : Reference Extraction

Step 1: Text Extraction



Textual PDF

Backman: Vocabularies of Motive

showed inclination towards 'neutralizing' any language based on the right to privacy and the right to be punished only once for an offence as defined in the rights vocabulary, the latter still exerted an influence that cannot be disregarded. The legal rights of the individuals were brought forward in a way that showed them still to form an essential part of the overall discourse, even when it came to issues of risk management and control. What this means, then, is that a discussion in which the values associated with the rights of individuals are heeded to all accounts continues to be very much possible. This effect may be an influence of the welfare state legacy, exemplifying how the risk discourse, or the notion of the control society, may become transformed in certain contexts of its usage. At the same time, it is important to note that both the rights vocabulary and the trust vocabulary remain inherently exclusive in their nature. In the case of the rights vocabulary, exclusion becomes acceptable to the extent that the risk vocabulary can be seen as equally applicable to the situation, thereby justifying the subordination of the former to the latter. In the case of the trust vocabulary, trust is something to be earned, and it can be degraded if misused. The decision to show someone trust can in this connection be seen as a calculated risk taken. In Excerpt 4 above, the human resources staff member expressed willingness to accept the risk of being let down. Should the candidates turn out not to be trustworthy, they will, consequently, be excluded. The difference here is that the decision to do so is based not on information from a database, but rather on information obtained directly from the job-seekers or someone who knows them, or on the observation of the actions and performance of the successful candidate once on the job.

Notes

1. At the time of the initial contact the company was said to carry out criminal record checks. This, however, turned out not to be the case. Nonetheless, given that companies within the employment service industry had divisions that performed checks as well as divisions that did not, the interview was conducted to make possible at least rudimentary comparison between 'positive' and 'negative' cases.
2. All interview excerpts in this article are the author's translations from the original Swedish (transcripts available upon request).

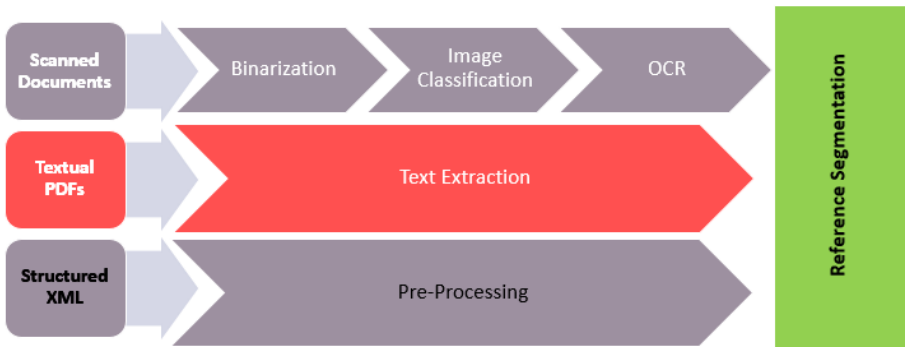
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Digital Born PDFs : Reference Extraction

- Step 2: Reference Extraction
 - Using ParsCit

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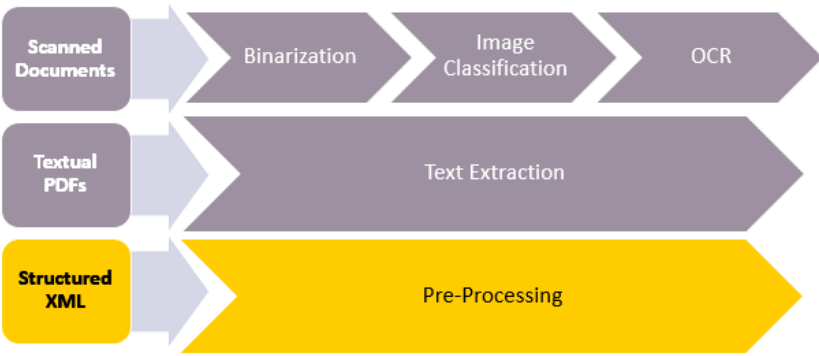


Reference Extraction from: Structured XML

Structured XML : Reference Extraction

- Step 1: Preprocessing

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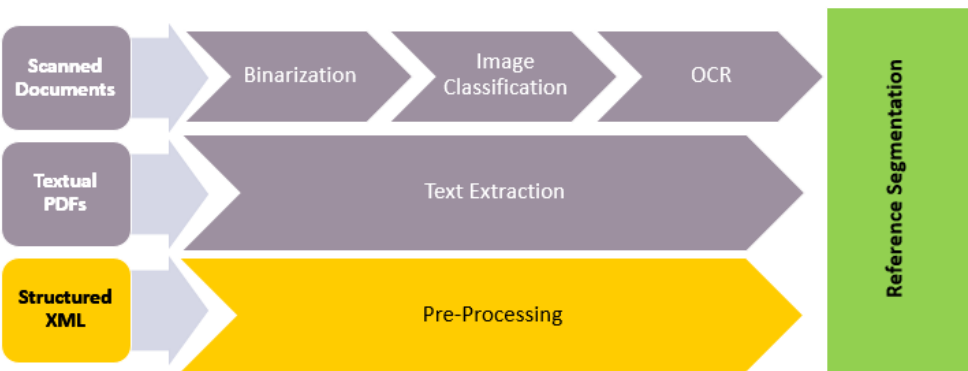


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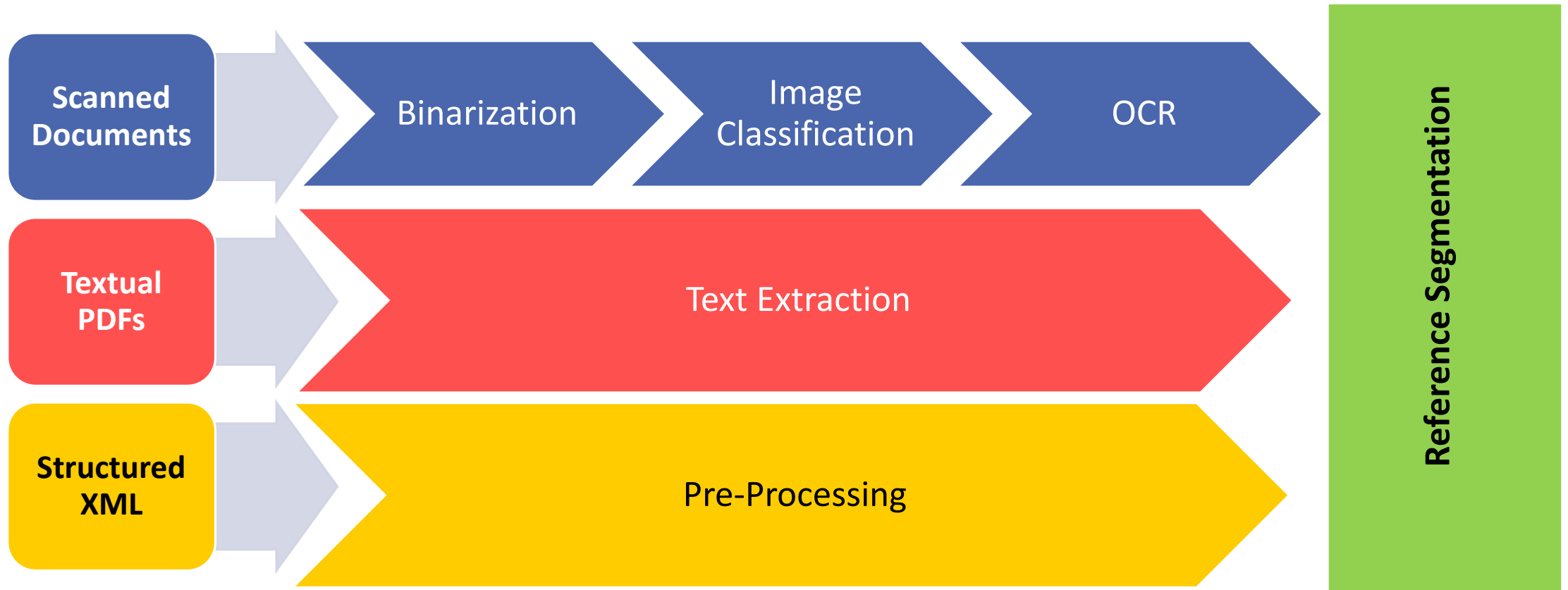
- Step 2: Reference Extraction

- Using ParsCit

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Reference Extraction Pipeline - Overview



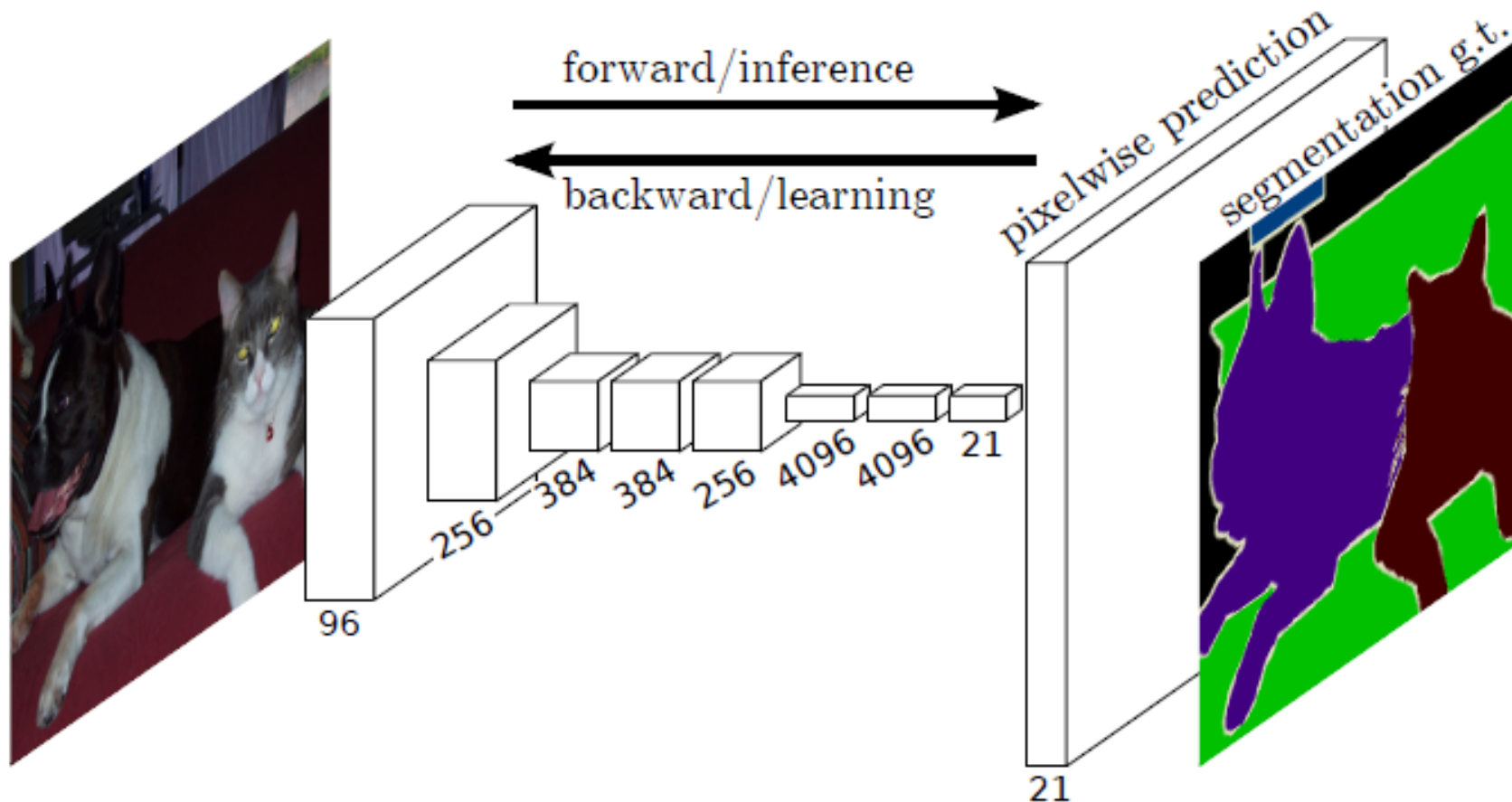
DeepBibX: A Neural Network based approach

DeepBibX: Intuition

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Neural Network Based Approach



Comparison with ParsCit

ParsCit Output

Literatur

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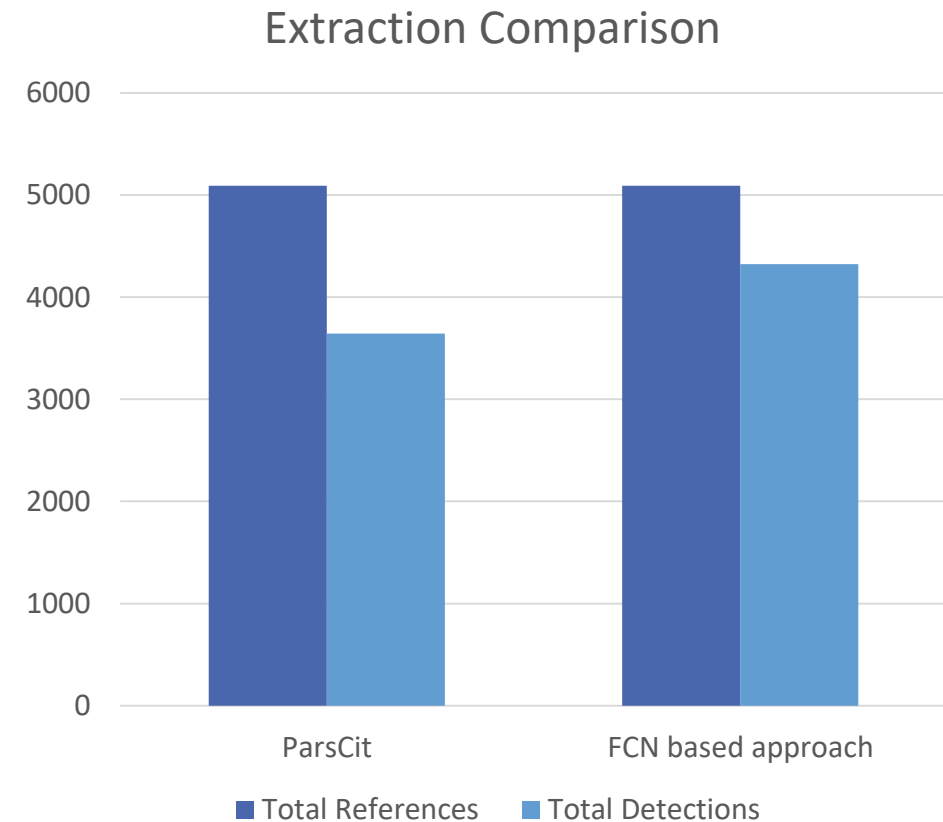
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Comparison with ParsCit

- On a test set of 286 bibliographic document images:
 - Total: **5090** references
 - ParsCit extracted: **3645** references
 - Proposed approach: **4323** references



Thank you
