System evaluation of archival description and access

Zhang, J.

Citation for published version (APA):

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: https://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (http://dare.uva.nl)
# Contents

## Preface

<table>
<thead>
<tr>
<th>Preface</th>
</tr>
</thead>
<tbody>
<tr>
<td>ix</td>
</tr>
</tbody>
</table>

## 1 Introduction

1.1 The Research Work ........................................... 2
   1.1.1 Problem Statement .................................. 2
   1.1.2 Scope and Terminology ................................ 3
   1.1.3 Research Plan and Contributions ....................... 4
   1.1.4 Research Questions .................................. 4

1.2 Structure of the Thesis .................................... 5

## 2 Usage of XML Retrieval for Archival Access

2.1 Introduction .................................................. 7

2.2 Related Work .................................................. 8
   2.2.1 Extensible Markup Language .......................... 9
   2.2.2 Encoded Archival Description ........................ 10
   2.2.3 XML Information Retrieval ............................ 11

2.3 Archival Access: Information Retrieval with EAD ............ 16
   2.3.1 Retrieval with EAD .................................. 16
   2.3.2 Archival Metadata Retrieval Systems ................. 18

2.4 README System Description ................................. 19
   2.4.1 Usage Scenarios .................................. 19
   2.4.2 EAD Finding Aids .................................. 21
   2.4.3 Indexing and Storage ................................ 22
   2.4.4 Retrieval Model .................................. 23
   2.4.5 Querying and User Interfaces ....................... 24
3 Construction of an Archival Test Collection for Evaluation

3.1 Introduction

3.2 Background and Related Work

3.2.1 Log Analysis for Information Retrieval Evaluation

3.2.2 IR Test Collections

3.2.3 Evaluating Archival Metadata Retrieval

3.3 From Search Log to Test Collection

3.3.1 Nationaal Archief System Interaction

3.3.2 Search Log Files and Document Collection

3.3.3 Information Extraction from Logs

3.3.4 Types of Test Collections

3.4 Log-Based Evaluation in Action

3.4.1 IR Models and Systems

3.4.2 Study 1: Complete Log Test Collection

3.4.3 Study 2: Test Collection Based on Agreements

3.5 External Validation

3.5.1 Test Collection Based on E-Mail Reference Requests

3.5.2 System Rank Correlations

3.5.3 Comparison with the Nationaal Archief System

3.5.4 The War Research Guide

3.6 Conclusion

4 On Archival Description Principles for Retrieval

4.1 Introduction

4.2 Problem Statement

4.3 Test Collection for Within-Fonds Retrieval

4.3.1 XML IR Test Collection with Manual Assessments

4.3.2 From Web Anchor to XML Element

4.4 The Scope of EAD Markup for Retrieval

4.4.1 Background

4.4.2 Analysis and Results

4.5 Retrieval Effects of Grouping Descriptions