ChartEx: Digging into Medieval Data

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The ChartEx Project Team

Universities involved

- University of York
  History, Human Computer Interact.
- University of Brighton
  Natural Language Processing
- Universiteit Leiden
  Data Mining
- University of Washington
  History, Web Services
- University of Toronto
  History and Digital Archives
- Columbia University
  History and Digital Libraries

Data Repositories

- The National Archives (UK)
  English
- Borthwick
  English
- DEEDS Project U. Toronto
  Latin
- Columbia Digital Humanities
  English
408. Grant by Thomas son of Josce goldsmith and citizen of York to his younger son Jeremy of half his land lying in length from Petergate at the churchyard of St. Peter to houses of the prebend of Ampleford and in breadth from Steyngate to land which mag. Simon de Evesham inhabited; paying Thomas and his heirs 1d. or [a pair of] white gloves worth 1 d. at Christmas. Warranty. Seal.


January 1252 [1252/3]

SOURCE: VC 3/Vi 326 (161 mm x 137 mm)
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Witnesses: Geoffrey Gunwar, William de Gerford[by,' chaplains, Robert de Farnham, Robert le Spicer, John le plaster, Walter de Alna goldsmith, Nicholas Page, Thomas talliator, Hugh le bedel, John de Glouc', clerks, and others.

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January 1252 [1252/3]
Manual and Automated Annotation

50 charters

manual annotation by domain experts

training set

Natural Language Processing

Latin

digitized collection

entire collection

Universiteit Leiden
Natural Language Processing
Data Mining and Workbench

automatically annotated collection

Data Mining

…
Matching Relational Information
Thomas son of Josce, goldsmith

Statistics
\[ p(\text{Thomas}) = 0.12 \] (common name)
\[ p(\text{Josce}) = 0.0015 \] (uncommon name)
\[ p(\text{Goldsmith}) = 0.04 \] (common profession)

Dating
\[
\begin{array}{ll}
\text{vc-408} & 1252-1253 \\
\text{vc-409} & 1253-1261
\end{array}
\]

Final confidence
\[ \text{conf} (\text{Thomas 408, Thomas 409}) = 0.9993 \]
Thomas son of Josce matched
Transaction-Transaction clustering

120 Vicars Choral charters
136 transactions
Site-matching: Stonegate/Petergate

414  Simon de Evesham
413  entire three parcels
413  Bubwyz
411  Jeremy son of Thomas
411  partial lease
407  entire three parcels
407  third parcel
412  William Raven de Fenton
412  partial lease
406  Simon de Evesham
410/410  ambiguous
409  Thomas son of Josce
408  Mariot widow of Thomas

corner Steyngate/Petergate
second on Petergate
third on Petergate
Data Mining and Workbench

- Automatically annotated collection
- Data Mining
- Historian
- ChartEx Workbench