

Méthode d'apprentissage pour la conversion automatique de documents structurés

Jérôme Fuselier^{1,2}, Boris Chidlovskii¹, Jean-Charles Marty²

¹*Xerox Research Centre Europe*

²*Laboratoire SysCom – Université de Savoie*

Plan

- Présentation du problème
- Exemple
- Notre approche
 - Problème de classification
 - Problème grammatical
- Résultats expérimentaux
- Conclusion

La gestion de fonds documentaires

- Les entreprises ont à gérer des collections hétérogènes de documents.

La gestion de fonds documentaires

- Les entreprises ont à gérer des collections hétérogènes de documents.

JUN- 8-01 FRI 12:19 SNAP ORDER PROCESSING FAX NO. 201-528-8815 P. 07

PLEASE DIRECT ALL CORRESPONDENCE TO:
 Snap Systems, Inc. Dept. 400 Mahwah, NJ 07430
 Telephone: 201-528-8815

Bill To: 195226 SHIP TO: AURORA CO 80011
 TAMPA FL 33624

Payee# 594223

Invoice No. 473362 Invoice Date 6/8/01 Order Date 5/25/01 Order Number 6914760-005 Ship Order No. 473362

COMMENTS:

MESSAGES:

Data Code	Bill No.	FOB	Carrier	PRO NO.	Freight Terms
010		NJ	UPS		FRIPPAID

Model No.	Order Qty	Unit Price	Qty Disc	Inv	Item Description	Amount
ARAXMFP	1	170.00		1	MFP KIT	170.00
ARAX7000	1	1,159.00		1	AXIS SCAN SERVER	1,159.00
ARPA1	1	63.00		1	CPR/ PRNTR LCD KIT	63.00

Payment Terms	Subtotal	% Sales Tax	Freight	INV AMOUNT
NET 30 DAYS	1,392.00			\$1,392.00

PLEASE REMIT PAYMENTS TO:
 Snap Systems, Inc. Dept. 400 Mahwah, NJ 07430
 DEPT AT (60214)
 ATLANTA, GA. 31193-0214

DUNS: 00-181-8012 R/V DATE: INVOICE NO. 473362

Customer No. 195226 Reference No. 473362 Payment Terms NET 30 PAY THIS AMOUNT \$1,392.00

CUSTOMER ORIGINAL INVOICE/REMITTANCE COPY

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PLEASE DIRECT ALL CORRESPONDENCE TO:
 MajecSTIC
 Mahwah, NJ 07430
 Telephone: [redacted]
 Installed By: [redacted]

BUYER'S CUSTOMER CONTACT:
 [redacted]
 (201) 579-4250 - 134-337

BILL TO: 195226 SHIP TO: [redacted]
 TAMPA FL 33624 AURORA CO 80011

473362 6/8/01 5/25/01 6914760-005 473362

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Bidder agrees to perform all the work described in the specifications and shown on the plans for the following Unit Prices:

Item No.	Quantity	Unit	Description	Unit Cost	Total Cost
1	1	Lump Sum	Building Construction	\$	\$
2	300	Lin Ft	Building Drywall Control Joints	\$	\$
3	1	Lump Sum	Allowance - Two Cast Bronze Plaques	\$ 3,600.00	\$ 3,600.00
4	1	Lump Sum	Allowance - PMDT Temporary Facilities	\$ 200,000.00	\$ 200,000.00
5	1	Lump Sum	Allowance - [redacted]	\$	\$
6	1	Lump Sum	Cleaning and Grubbing (Approx. 4 Acres)	\$	\$
7	3500	CYIP	Unclassified Excavation	\$	\$
8	5000	CYIP	Borrow Excavation	\$	\$
9	150	CYIP	Trench Rock Excavation	\$	\$
10	1000	Sq Yd	Geotextile Stabilization Mat	\$	\$
11	5200	SYCIP	Crushed Agg. Base Course, Type B, 8" Thick	\$	\$
12	5200	SYCIP	Bluminous Treatment A	\$	\$
13	270	Gallons	Track Coat (ALDOT 405A)	\$	\$
14	750	Tons	Improved Bl. Conc. Binder Layer (429B)	\$	\$
15	585	Tons	Improved Bl. Conc. Wearing Sur. (429A)	\$	\$
16	200	Tons	Improved Bl. Conc. Binder Layer (Patching)	\$	\$
17	1	Lump Sum	Permanent Signage, Striping & Markings	\$	\$
18	1	Lump Sum	Remove Striping and Markings	\$	\$
19	178	Sq Yd	Portland Cement Conc Pavement (ALDOT 450A)	\$	\$
20	3475	Lin Ft	2" Combination Curb and Gutter	\$	\$
21	75	Lin Ft	8" Valley Gutter	\$	\$
22	365	Lin Ft	12" PVC Storm Sewer Pipe	\$	\$
23	80	Lin Ft	15" R.C. Pipe, Class 3	\$	\$
24	350	Lin Ft	18" R.C. Pipe, Class 3	\$	\$
25	300	Lin Ft	24" R.C. Pipe, Class 3	\$	\$
26	15	Each	Junction Box	\$	\$
27	5	Each	Curb Inlets (1 Wing)	\$	\$
28	2	Each	Curb Inlets (1 Wing) (Top Only)	\$	\$
29	1	Each	Curb Inlets (2 Wing)	\$	\$
30	1	Each	Curb Inlets (2 Wing) (Top Only)	\$	\$
31	9	Each	24" Prefabricated Catch Basin	\$	\$
32	250	Ton	Loose Rip Rap, Class 2 w/ Filter Fabric	\$	\$
33	1	Lump Sum	Erosion Control	\$	\$
34	9	Acres	Seeding and Mulching (Class A, Type 1)	\$	\$
35	12000	Sq Yd	Solid Seeding - Bermudagrass '419'	\$	\$
36	260	Lin Ft	8" Dia. PVC Sanitary Sewer (0'-6" Cut)	\$	\$
37	210	Lin Ft	8" Dia. PVC Sanitary Sewer (0'-8" Cut)	\$	\$
38	150	Lin Ft	8" Dia. PVC Sanitary Sewer (0'-10" Cut)	\$	\$
39	50	Lin Ft	15" Dia. PVC Sanitary Sewer (0'-6" Cut)	\$	\$
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48	20	Lin Ft	18" Dia. PVC Sanitary Sewer (16'-18" Cut)	\$	\$
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La gestion de fonds documentaires

- Les entreprises ont à gérer des collections hétérogènes de documents.

5/19/05
2005-0072-4481
5/27

JUN- 8-01 FRI 12:19 SNAP ORDER PR

Stockbridge Community Schools
1001 579-4320 • 134-337

BILL TO: 195226
TAMPA FL 33624

473362 6/8/01 5/25/01

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NET 30 DAYS 1,392.00

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DEPT AT (60214)
ATLANTA, GA. 31193-0214

Customer No. 195226 Reference No. 473362

CUSTOMER ORIGINAL/INVOICE/REMITTANCE COPY

The Board of Education of Stockbridge Community Schools will receive bid proposals for the repair and replacement of concrete steps and sidewalks located at the Stockbridge Middle School.

Project #1 – Approximately 95 feet of concrete sidewalk and entry way steps located on the East side of the Stockbridge Middle School located at 305 W. Elizabeth Street, Stockbridge, Michigan. a) Alternate will be partial decorative brick on walk.

Project #2 – Approximately 240 feet of sidewalk located on the North side of the Stockbridge Middle School located at 305 W. Elizabeth Street, Stockbridge, Michigan.

Bid packages including specification for the above two projects are available at the Office of the Superintendent, 305 W. Elizabeth Street, Stockbridge Michigan between the hours of 8:00 a.m. – 3:30 p.m. Monday through Friday, (517) 851-7188 X3.

Bids will be received until ~~Wednesday~~ ^{Friday} May 27, 2005 at 2:00 p.m. at the District office, located at 305 W. Elizabeth Street, Stockbridge, MI 49285. At that time proposals will be officially opened and prepared for distribution to the Board of Education. Any proposal not received by 2:00 p.m. on May 26, 2005 will not be considered. All interested persons are invited to attend the opening of the bids at that time.

The Stockbridge Community Schools reserves the right to reject all bids, and to waive any informality. All bids become the property of the district, and may not be withdrawn after the date of reception or before award of a contract unless such award is delayed for a period exceeding sixty days.

By submitting a bid, the contractor certifies compliance with all applicable city and state statutes and administrative rules that govern construction projects with public school districts. Except as otherwise expressly provided in the proposal, the vendor shall stipulate that the proposal incorporates by reference, as if fully set forth in the proposal, the full content of the quote and the attached contract provisions.

Darwin Snider
President
Stockbridge School Board of Directors

Bidder agrees to perform all the work described in the specifications and shown on the plans for the following Unit Prices:

Item No.	Quantity	Unit	Description	Unit Cost	Total Cost
1	1	Lump Sum	Building Construction	\$	\$
2	300	Ln Ft	Building Drywall Control Joints	\$	\$
3	1	Lump Sum	Allowance - Two Cast Bronze Plaques	\$ 3,600.00	\$ 3,600.00
4	1	Lump Sum	Allowance - PMVD Temporary Facilities	\$ 200,000.00	\$ 200,000.00
5	1	Lump Sum	Mobilization	\$	\$
6	1	Lump Sum	Cleaning and Grubbing (Approx. 4 Acres)	\$	\$
7	3500	CYIP	Unclassified Excavation	\$	\$
8	5000	CYIP	Borrow Excavation	\$	\$
9	150	CYIP	Trench Rock Excavation	\$	\$
10	1000	Sq Yd	Geotextile Stabilization Mat	\$	\$
11	5200	SYCIP	Crushed Agg. Base Course, Type B, 8" Thick	\$	\$
12	5200	SYCIP	Bluminous Treatment A	\$	\$
13	270	Gallons	Track Coat (ALDOT 405A)	\$	\$
14	750	Tons	Improved Bit. Conc. Binder Layer (429B)	\$	\$
15	585	Tons	Improved Bit. Conc. Wearing Sur. (429A)	\$	\$
16	200	Tons	Improved Bit. Conc. Binder Layer (Patching)	\$	\$
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18	1	Lump Sum	Remove Striping and Markings	\$	\$
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21	75	Ln Ft	8' Valley Gutter	\$	\$
22	365	Ln Ft	12" PVC Storm Sewer Pipe	\$	\$
23	80	Ln Ft	15" R.C. Pipe, Class 3	\$	\$
24	350	Ln Ft	18" R.C. Pipe, Class 3	\$	\$
25	300	Ln Ft	24" R.C. Pipe, Class 3	\$	\$
26	1	Each	Junction Box	\$	\$
27	5	Each	Curb Inlets (1 Wing)	\$	\$
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32	250	Ton	Losses Rip Rap, Class 2 w/ Filter Fabric	\$	\$
33	1	Lump Sum	Erosion Control	\$	\$
34	9	Acres	Seeding and Mowing (Class A, Type 1)	\$	\$
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JUN- 8-01 FRI 12:19 SNAP ORDER PR

City of Stockbridge
 1000 N. W. 34th Ave., Suite 200, Tallahassee, FL 32301
 (904) 579-4320 • 134-337

BILL TO: 195226

STOCKBRIDGE COMMUNITY SCHOOLS
 TAMPA FL 33624

473362 6/8/01 5/25/01

COMMENTS:

MESSAGES:

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 DEPT AT (60214)
 ATLANTA, GA 31193-0214

Customer No. 195226 Reference No. 473362

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5/19/05
2005-09-72-4481

MUNICIPALITY OF ANCHORAGE
 OFFICE OF EQUAL OPPORTUNITY
 CONTRACT COMPLIANCE

EMPLOYMENT INFORMATION REPORT

FIRM NAME: DATE PREPARED:
 ADDRESS: TELEPHONE:
 FAX:

This form must be filled out and returned to the Municipality of Anchorage, Office of Equal Opportunity, Contract Compliance Office, P. O. Box 186650, Anchorage, Alaska 99519-6650, prior to award of bid or, for contracts to be awarded without competitive bidding, prior to execution of the contract.

This form fulfills the requirements of regulations 7.50-482, which requires employment information on contractor's subcontractor's current aggregate work force composition by race and sex.

NOTE: Only one (1) such form need be filed every twelve (12) months.

Occupation	Total Employed		Total Minorities		Black		Asian		American Indian Or Alaskan Native		Hispanic		Pacific Islander	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Managerial/Owner														
Supervisors/Foreman														
Apprentice-On-The-Job Trainee														
Chemical														
Sales Workers														
Equipment Operator														
Truck Drivers														
Ironworkers														
Carpenters														
Concrete Masons														
Electricians														
Pipefitters/Plumbers														
Painters														
Laborers/Semiskilled														
Technicians														
Service														
Professionals														
TOTAL														

Submitted by: (Name & Title) Date

Appendix B 10-824 (Rev. 3/2000) MDA 22 3

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473362 Page 1 of 4 04/12/01 Bid Proposal Form.xls

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2005 P.O. Box 10000 Anchorage, AK 99512-1000
(907) 579-4320 • 134-337

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1001 4/01 130

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2005-05-22-4481

MUNICIPALITY OF ANCHORAGE
OFFICE OF EQUAL OPPORTUNITY
CONTRACT COMPLIANCE

EMPLOYMENT INFORMATION REPORT

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ADDRESS: _____ TELEPHONE: _____
FAX: _____

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NOTE: Only one (1) such form need be filed every twelve (12) months.

Occupation	Total Employed		Total Minorities		Black		Asian		American Indian Or Alaskan Native	
	M	F	M	F	M	F	M	F	M	F
Managerial/Owner										
Supervisors/Foreman										
Apprentice-On-The-Job Trainee										
Chemical										
Sales Workers										
Equipment Operator										
Truck Drivers										
Ironworkers										
Carpenters										
Concrete Masons										
Electricians										
Pipefitters/Plumbers										
Painters										
Laborer/Semiskilled										
Technicians										
Service										
Professionals										
TOTAL										

Submitted by: (Name & Title) _____ Date _____

Appendix B 10-824 (Rev. 3/2000) MDA 21 3

WSV No. 04-081 LAKESIDE RESIDENTIAL COMMUNITY - UA #000-04-207A-BLDG PACKAGE A

SECTION 12491 - HORIZONTAL LOUVER BLINDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

- Horizontal louver blinds with polymer slats
- Provide blinds for every window opening.

B. Related Sections include the following:

- Division 6 Section "Miscellaneous Carpentry" for wood blocking and grounds for mounting horizontal louver blinds and accessories.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Show fabrication and installation details for horizontal louver blinds.

C. Samples for Initial Selection: For each type and color of horizontal louver blind indicated.

- Include similar Samples of accessories involving color selection.
- D. Samples for Verification: For each type and color of horizontal louver blind indicated.
 - Slat: Not less than 12 inches (300 mm) long.
 - Tapes: Full width, not less than 6 inches (150 mm) long.
 - Horizontal Louver Blind: Full-size unit, not less than 16 inches (400 mm) wide by 24 inches (600 mm) long.
 - Valance: Full-size unit, not less than 12 inches (300 mm) wide.
 - Cornice: Full-size unit, not less than 12 inches (300 mm) wide.
- Window Treatment Schedule: For horizontal louver blinds. Use same designations indicated on Drawings.
- Maintenance Data: For horizontal louver blinds to include in maintenance manuals.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain horizontal louver blinds through one source from a single manufacturer.

B. Fire-Test Response Characteristics: Provide horizontal louver blinds with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.

- Flame-Resistance Rating: Passes NFPA 701.

- Product Standard: Provide horizontal louver blinds complying with WCSC A 100.1.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver horizontal louver blinds in factory packages, marked with manufacturer and product name, fire-test-response characteristics, lead-free designation, and location of installation using same designations indicated on Drawings and in a window treatment schedule.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Do not install horizontal louver blinds until construction and wet and dirty finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Field Measurements: Where horizontal louver blinds are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operable glazed units. operation hardware throughout the entire operating range. Notify Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1.7 EXTRA MATERIALS

HORIZONTAL LOUVER BLINDS

12491 - 1

Prices:

Item	Quantity	Unit Price	Total Price
Blind	3	1,000.00	3,000.00
Accessories	200	10.00	2,000.00
Total			5,000.00

Proposal Form 41

La gestion de fonds documentaires

- Les entreprises ont à gérer des collections hétérogènes de documents.

JUN- 8-01 FRI 12:19 SNAP

Customer's Copy of Invoice

Bill To: 195226

TAMPA FL 33624

Invoice No.	Invoice Date	Customer No.
473362	6/8/01	52

COMMENTS:

MESSAGES:

Data Code	Bill No.	PO
010	NJ	

Model No.	Order Qty	Unit Price	Order Qty
ARAXMFP	1	170.00	
ARAX7000	1	1,159.00	
ARPA1	1	63.00	

NET 30 DAYS

PLEASE REMIT PAYMENTS TO:

Atlanta

ATLANTA, GA 31193-0214

Customer No. 195226 Reference No. 473362

1000 4/21/01

52 HYDRO-PNEUMATIC SYSTEM - BRAKE

SECTION 78 52

GRAPHIC SYSTEM (MISC)

GRAPHIC SYSTEM (MISC)

GRAPHIC SYSTEM (TANKS)

GRAPHIC SYSTEM (CONVE)

GRAPHIC SYSTEM (COUPLES)

GRAPHIC SYSTEM (SERVIC)

GRAPHIC SYSTEM (INDICA)

GRAPHIC SYSTEM (INDICA)

PIFES AND

General

Ref-fan

Band-

Cutting

Replace

Replace release

BRAKING S

Outline

Outline 350-C

Outline with A

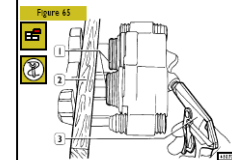
Outline 500-C

Braking

527413 OVERHAUL OF BRAKE CALIPERS
1x242 - 2x44 - 2x46 - 2x52 Brembo brake calipers

Disassembly

Figure 65



Cleaning and checking of main components
For all types of brake calipers

When washing the metal components use hot water with Fiat LCD type detergent.

By means of a metal brush, remove any dirt from the brake caliper; then eliminate any residual dirt with the use of a brush. Carefully clean the seats of the guide pins, sliding bushes, pistons and the pistons themselves.

By means of a suitable synthetic brush, remove all traces of grease from the seats of the sliding bushes. Open the bleeder valve, then carefully blow compressed air into the brake caliper casing.

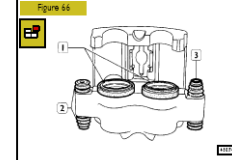
By means of a piece of canvas soaked in methalated spirits or similar, carefully clean the sliding surfaces.

Check the wear on the sliding bushes, pistons and relevant seats on the brake caliper casing. Make sure that the sliding surfaces are neither damaged or worn.

Insert the bushes and pistons into the seats and check that they are free to slide, otherwise restore or replace as necessary.

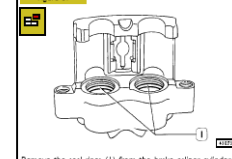
By means of a gun (7), introduce air into the brake caliper the pistons (1) are extracted.

Figure 66



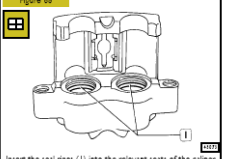
Remove the dust covers (1) and (2) and keep the sliding bushes (7).

Figure 67



Remove the seal rings (1) from the brake caliper cylinder seats.

Figure 68

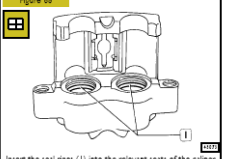


Insert the seal rings (1) into the relevant seats of the caliper casing.

Re-assembly

Lubricate the pistons and seal rings with brake fluid Torex DOT SPECIAL.

Figure 69



Insert the seal rings (1) into the relevant seats of the caliper casing.

Fig. 29 Ed. - February 2002

Price 6274231

LAKESIDE RESIDENTIAL COMMUNITY - UA #000-04-207A-BLDG PACKAGE A

- HORIZONTAL LOUVER BLINDS

Blinds

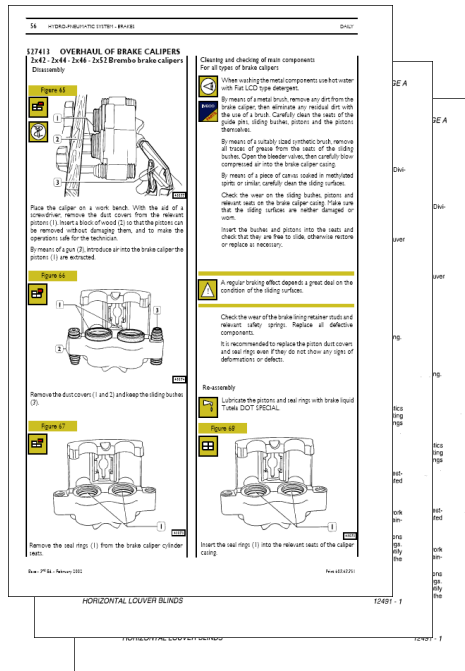
Blinds	Price
	3,600.00
	200,000.00

Blinds

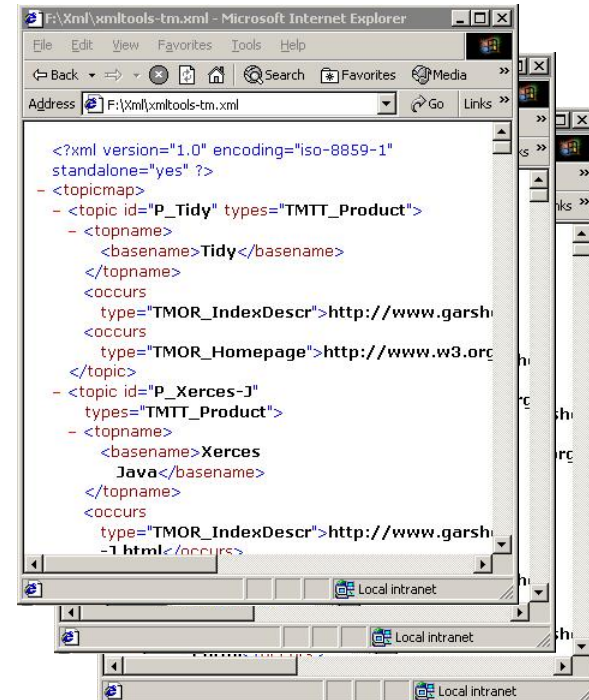
12491 - 1

La conversion de fonds documentaires

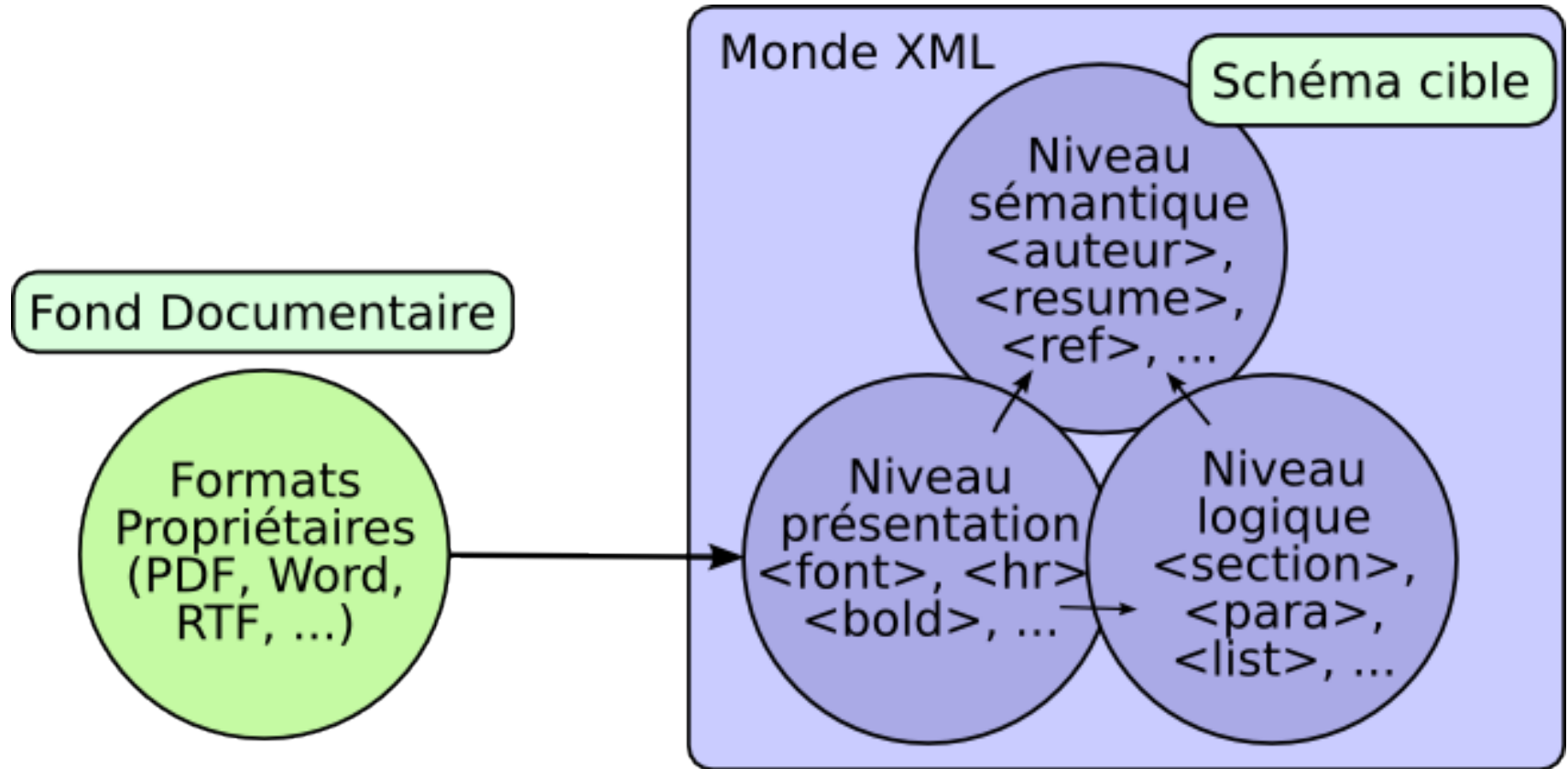
- Fonds documentaires :
 - Formats propriétaires
 - Monde des documents
 - Traitement humain
 - Orienté présentation
 - Inapproprié aux traitements "intelligents"



- Documents XML :
 - Formats standards
 - Monde des données
 - Traitement informatique
 - Orienté sémantique
 - Adapté aux traitements "intelligents"



Les niveaux d'un document



Etat de l'art

- Apprentissage de règles simples de transformation, *Curran99*.
- Transformation automatique vers des documents structurés, *Wang99*.
- Analyse de la collection pour une écriture manuelle de règles de transformation, *Chung02*.

Un exemple de conversion (1)

Un fragment de CV généré à partir d'un modèle de Microsoft Office

Domaines de compétences
Génie Logiciel, Interfaces Homme Machines
Formation
<i>2002 : DEA Informatique.</i> Université de Savoie, Chambéry. <i>2001 : Maîtrise Informatique.</i> Université de Savoie, Chambéry.

Un fragment sémantique

```
<curriculum>
  <competence>
    Génie Logiciel, Interfaces Homme Machines
  </competence>
  <formation>
    <elem>
      <annee>2002</annee>
      <titre>DEA Informatique</titre>
      <affiliation>Université de Savoie</affiliation>
    </elem>
    <elem>
      <annee>2001</annee>
      <titre>Maîtrise Informatique</titre>
      <affiliation>Université de Savoie</affiliation>
    </elem>
  </formation>
  ...
</curriculum>
```

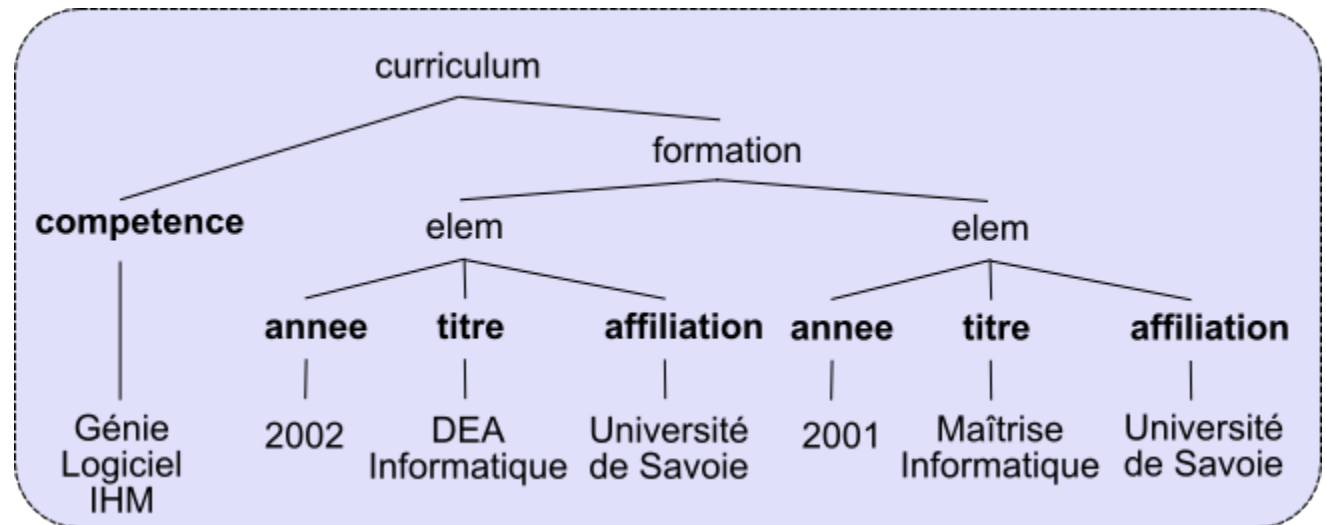
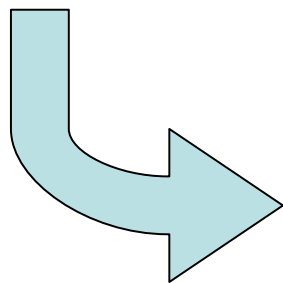
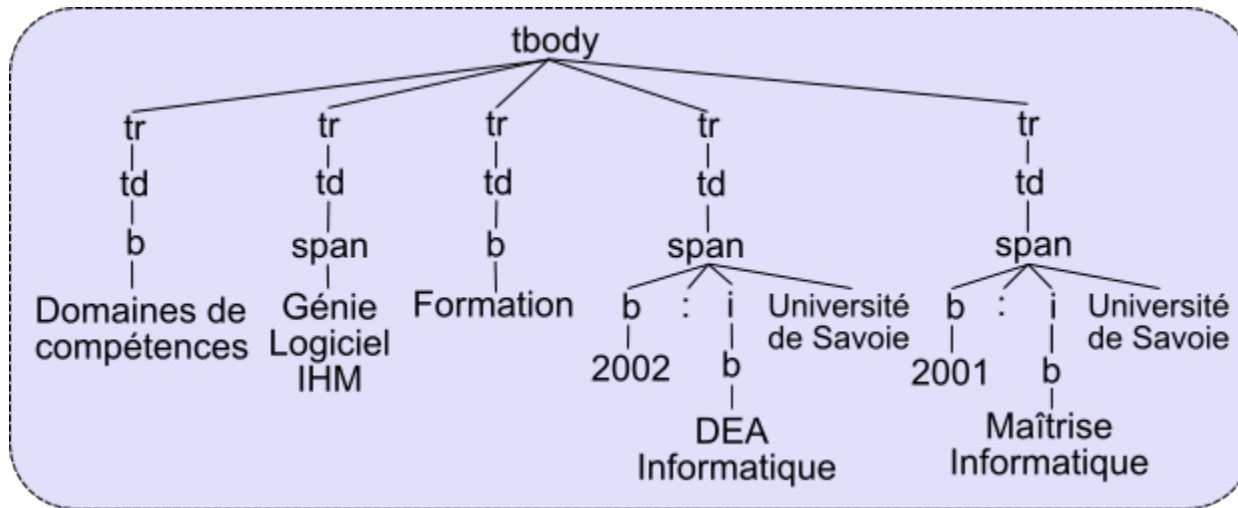
Schéma cible :

curriculum ::= competence formation

formation ::= elem *

elem ::= [annee|annees] titre affiliation*

Un exemple de conversion (2)

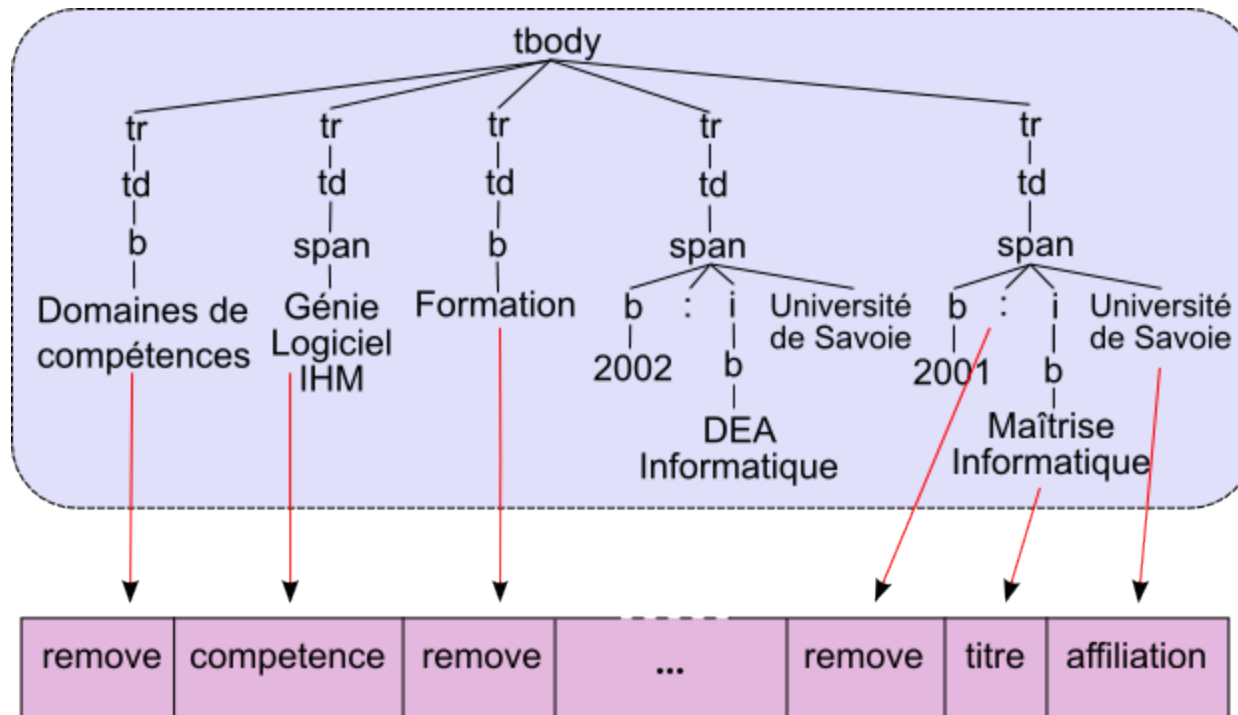


Définition du problème

- Annotation sémantique de documents en se référant à un schéma cible.
- **Entrée** :
 - Schéma XML fournit par le client ou spécifique au domaine (DTD, XML schema, RelaxNG, ...).
 - Documents semi-structurés en HTML/XHTML (convertis automatiquement depuis le format propriétaire).
 - Des exemples de documents XML cibles pour l'apprentissage.
- **Sortie** :
 - Annotation XML du document, un arbre XML.
 - L'arbre est une instance du schéma.

Décomposition du problème (1)

- Première étape : Annotation des feuilles.

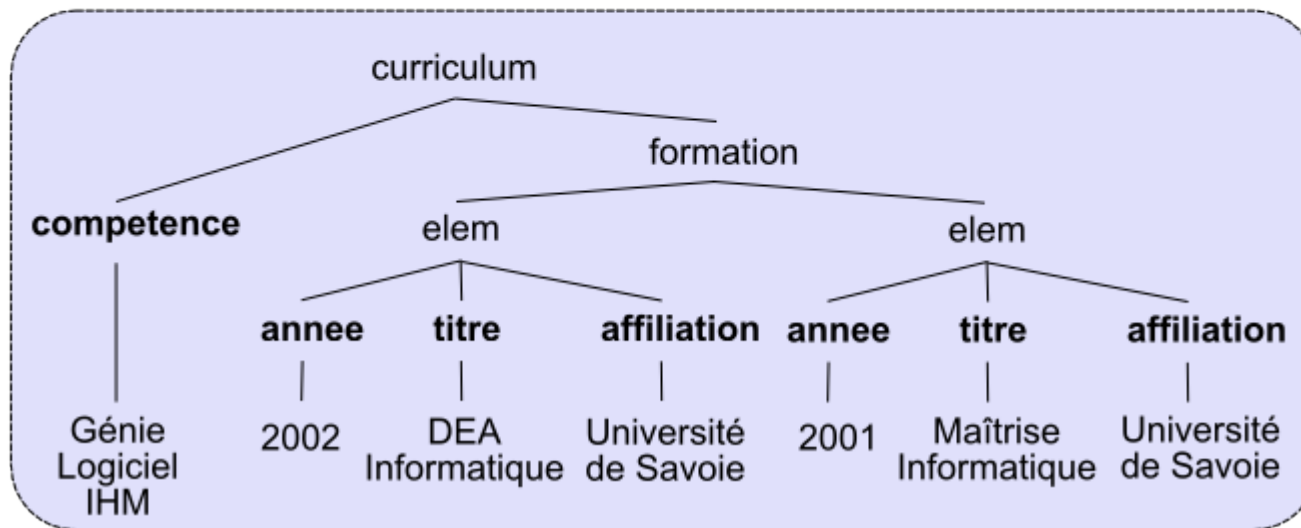


Décomposition du problème (2)

- Deuxième étape : Inférence de l'arbre.

remove	competence	remove	annee	remove	titre	affiliation	annee	remove	titre	affiliation
--------	------------	--------	-------	--------	-------	-------------	-------	--------	-------	-------------

competence	annee	titre	affiliation	annee	titre	affiliation
------------	-------	-------	-------------	-------	-------	-------------

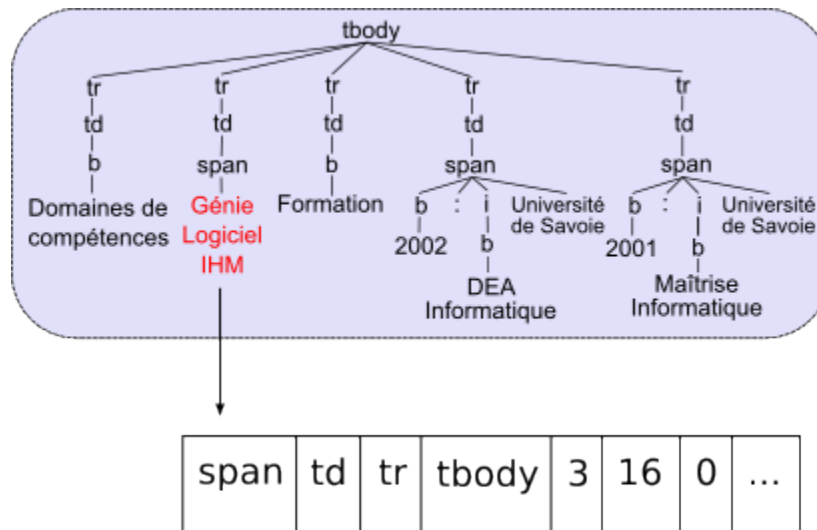


Modèle probabiliste pour l'annotation

- Classifieur probabiliste de contenu, $y = C(x)$.
- Extension probabiliste du schéma XML cible :
 - Grammaire hors contexte probabiliste G .
 - Algorithme *Inside-outside* : Arbre de dérivation le plus probable, $d = \text{parse}(y)$.
- L'annotation d'arbre est vu comme une dérivation probabiliste généralisée :
 - Trouver l'annotation la plus probable (y,d) .
 - $(y,d)_{\max} = \text{argmax}[P(y,d|x,G)] = \text{argmax}[P(y|x,G).P(d|y,x,G)]$

Composant 1: Classifieur de contenu

- Annoter les feuilles des documents semi-structurés.
- Sélection des descripteurs :
 - **Contenu** : longueur, nombre de mots, séparateurs, casse, etc.
 - **Structure** : noms des éléments, valeur des attributs, etc.
 - **Logique** : alignement hor/vert, reconnaissance des pieds de page, etc.

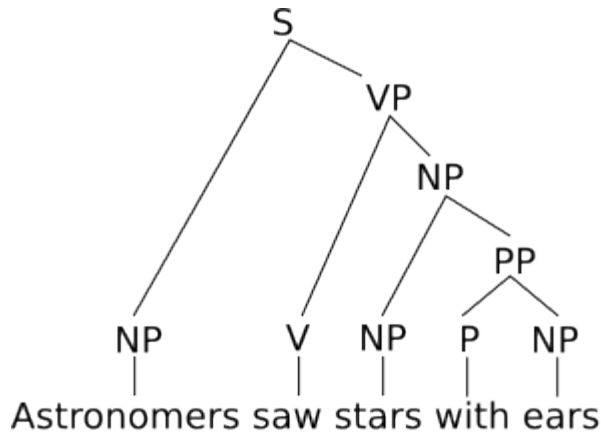


Utilisation d'un classifieur probabiliste :

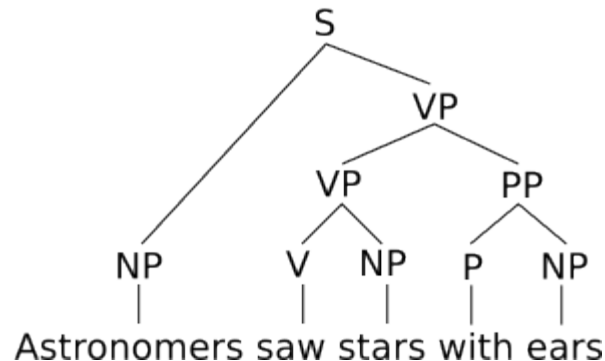
$$P(\text{'compétence'}|\mathbf{x}) = 0.75$$

Composant 2 : PCFG

- Une grammaire hors-contexte probabiliste permet d'ajouter des probabilités aux règles de dérivation.



$$P(t_1)=0.00091$$



$$P(t_2)=0.00069$$

Composant 2 : PCFG

- Dérivation probabiliste d'une phrase :
 - Algorithme Inside-Outside pour trouver la dérivation la plus probable
- PCFGs pour les schémas XML : Extension probabiliste de la définition des schémas
 - Réécriture des déclarations des éléments sous forme grammaticale et apprentissage des probabilités à partir du corpus
 - **Forme normale de Chomsky**

Résultats (1)

- Deux collections entièrement annotées :
 - **Shakespeare** :
 - 60 scènes
 - Grammaire simple 8 non terminaux, 4 terminaux, 18 règles
 - **TechDoc** :
 - 60 documents techniques
 - Sémantique forte : 27 terminaux, 53 non terminaux.
- Deux métriques :
 - **TER** : pourcentage de terminaux bien classés
 - **NER** : pourcentage de non terminaux corrects

Résultats (2)

Méthode	TechDoc		Shakespeare	
	TER	NER	TER	NER
Maxent + G	93.39	80.00	99.97	99.81
NB – contenu + G	78.40	65.53	81.94	28.38
NB – structure + G	88.58	76.44	99.95	99.84

- Résultats obtenus sur les deux collections avec 3 méthodes différentes :
 - Maxent : classifieur basé sur le principe du maximum d'entropie
 - NB : classifieur Naïve Bayes avec une approche « sac de mots » pour les descripteurs.

Conclusion

- Difficulté de trouver des collections de documents annotés pour l'apprentissage.
- L'approche présentée est séquentielle mais le papier présente une approche jointe où nous ne cumulons pas les erreurs.
- Pour le futur, nous envisageons plusieurs pistes :
 - Convertir les arbres directement en une seule étape.
 - Utiliser des méthodes d'apprentissage actif pour simplifier la tâche de l'annotation.