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Using Multilingual Parallel Corpora For The Analysis of Legal Language: The Bononia Legal Corpus

Abstract

This paper intends to describe our experience in building multilingual comparable law corpora here at the University of Bologna. It is the first report of an ongoing corpus-driven research project named Bononia Legal Corpus, or BOLC, which is involved in investigating legal language in English and in Italian.

In the construction of the corpus, two subcorpora have been envisaged: one English, the other Italian. According to our plans, carrying out the project will take three years: 1997-1999. As to the dimension of the corpus, we set 10 million words as the smallest target for each component.

Before the first sample, a preliminary pilot corpus (6 mw for each subcorpus) was stored.

KEYWORDS: corpus linguistics, multilingual parallel corpora, legal language.

1. Introduction

This paper intends to describe our experience in building multilingual comparable law corpora here at the University of Bologna. It is the first report of an ongoing corpus-driven research project named Bononia Legal Corpus, or BOLC, which is involved in investigating legal language in English and in Italian.

BOLC is an interdisciplinary project. It is based on the cooperation of experts in linguistics, computer programing, and law. The presence of legal experts in the team has proved particularly important in drawing up specimen bibliographies, in the selection and classification of texts (on cultural evidence), in transmuting parallel corpora into comparable corpora, and in the selection of key concepts and key words. The presence of John Sinclair as a consultant has also been of critical importance.

As computer experts I wish to mention F. Tamburini and E. Martelli for their valuable work in formatting corpus documents and writing the software which is used in our research.

² As a legal expert I wish to mention in particular Prof. A. Di Pietro.

In the construction of the corpus, two subcorpora have been envisaged: one English, the other Italian. According to our plans, carrying out the project will take three years: 1997-1999. As to the dimension of the corpus, we set 10 million words as the smallest target for each component, that is:

first sample 10 m. w. English 10 m.w. Italian subsequent each sample " " " " " " "

The samples will be restricted to readily available material; 90% or more is probably already in electronic form.

Before the first sample, a preliminary pilot corpus (6 mw for each subcorpus) was stored.

2. A legal corpus

Why a legal corpus? For the relevance that collocation has in legal texts. It has been argued that when we think of law, we usually think first of words. This is an important point since most juridical words do not have a direct connection with counterparts in the actual world. They cannot be defined in terms of ordinary factual counterparts; concordance and collocation, therefore, play a fundamental role in the definition of meaning.

English and Italian legal texts are representative of two different legal systems and of the differences existing between the common law system developed in England and the civil law system, based on the Roman law, developed in Italy.

A further point is to be made as to the representativeness of the corpus design. In the last few years, the situation has been made more complex with the development of European Community law, that body of law created by and consequent to the association of European countries. European Community law not only applies within the Community as an organization, but it also binds member states together, and creates rights and duties for legal persons therein.

In our project, European legislation is seen as a reference for the contacts taking place there among the different legal systems, and for the transnational approach which is implied in the coexistence and cooperation of different nationalities. In the building up of our corpus, we chose to refer to European legislation, in a preliminary pilot corpus, in order to create a conceptual framework to be used as a first-level reference. We chose to refer to the secondary Community legislation even if reference can also be made to primary legislation, that is to the Treaties that established the communities.

Secondary legislation consists of regulations, decisions, directives, recommendations and opinions made or given by the Commission. In particular, our focus was on directives since they can be implemented by domestic legislation and can produce direct legal effects in member states. At a further stage, directives make possible the identification and selection of legal texts which have been enacted "on specific issues," in different European countries. They make it possible to transmute parallel corpora into comparable corpora.

Data are now limited to English and Italian. An extension which will include French and Spanish is envisaged.

A short description of the documents. A directive usually begins with an extensive set of header information, indicating the date, the reference number and its coding conventions. The text follows. After the proper text there is possibly some trailer information. The text data have been divided from the header and the trailer data. Two documents have been distinguished.

The first document (data file) contains the legal text and the reference number (CELEX).

The second document (reference file) contains all other data that could be useful in performing law-targeted rather than language-targeted searches.

During the first phase, while building the pilot corpus, the corpus was not tagged in order to simplify the entire building process. In the future, the tagging process could be performed with some differences between subcorpora, in consideration of the specific requirements presented by Italian, as, for example with accents and apostophes.

3. A case study: tax and duty

In the analysis of the pilot corpus some important methodological aspects emerged. I will comment briefly on one of the most significant collocations³ with regard to the problems presented in interlinguistic comparison. As a case study, I will consider the English word: *tax*. It refers to a situation which can be considered common both to the U.K. and to Italy, and can be assumed to apply to other European countries as well, and whose presence can be accounted for with the extension of our corpus. In all countries, taxes are levied on income and expenditure by central and local governments, but different

^{3 &}quot;Collocation is the occurrence of two or more words within a short space of each other in a text. The usual measure of proximity is maximum of four words intervening. Collocations may be dramatic and interesting because unexpected, or they can be important in the lexical structure of the language because of being frequently repeated." J.SINCLAIR, 1991,p.170.

categories are employed in how taxes are defined. It was our hypothesis that the categories would emerge from the analysis of the data.

Let us consider the following concordance of the word *tax*, selected automatically from our corpus, where there are 1204 citations altogether:

```
Article 7 1 . The term ' withholding tax ' as used in this Directive shall n
to maintain temporarily a withholding tax , HAS ADOPTED THIS DIRECTIVE : Articl
 the calculation of a toll , tariff , tax , bonus , penalty , remuneration , in exemption from or refund of turnover tax , excise duty or any other consumptio
 by private individuals from turnover tax , excise duty and other consumption t
ing out of ordinary activities , after tax , for the last financial year . ( g )
cified which persons are liable to pay tax , in particular as regards services s
  , both net and inclusive of duty and tax , whether published or not , for a pr
ads of state Article 60 Exemption from tax , within the limits and under the con
 of the tax base , calculation of the tax , chargeability and monitoring of the
es and saddle - horses from : Turnover tax , excise duties and any other consump
ubject to prior payment of value added tax , at the rate applying on the date of
basis of the standard rate of turnover tax . Where that special rate covers one
into account exclusive of value added tax : 1 . The value of the total final pr
on measures with regard to value added tax THE COUNCIL OF THE EUROPEAN COMMUNITI
ries shall be exempt from the turnover tax and excise duty levied on imports if
lating to the rules governing turnover tax and excise duty applicable in interna
pe of the common system of value added tax as established by Council Directive 7
dispatched , make a declaration to the tax authorities of the Member States of d
chargeable event and the date when the tax becomes chargeable with those laid do
icle 3 For purposes of calculating the tax burdens on a product at the final sta
banks ) Death duties Tax information , Tax deposits . Other capital transactions
esignated as the person liable for the tax due in accordance with Article 28 c (
Member States will make provisions on tax exemptions and duty - free allowances
ber State which issued the value added tax identification number under which the
basis of assessment of the value added tax in order to apply the scheme of own r
fy the Community standards by means of tax incentives ; whereas this implies tha
States may adopt arrangements whereby tax is payable by another person . Inter
untries in such a way that a saving in tax may result in one or the other Member
 his business , where the value added tax on the goods in question or the compo
```

On inspecting the concordances of tax, we can find some relevant collocations. Tax, in the singular, presents a high occurrence in our pilot corpus. In all instances nouns dominate the pattern at N-1 position both on the right and the left. Tax tends to occur either followed or preceded by a noun or a noun group. It occurs both i)as a modifier and ii) as a headword.

In a particularly high number of examples (406), it occurs as a modifier in a noun group. If we consider the top ten we have:

```
tax authorities (35)
tax exemption (30)
tax system (30)
tax burden (29)
tax relief (26)
tax warehouse (18)
tax evasion (13)
tax rules (12)
tax representative (11)
tax remission (9)
```

In a number of examples the word tax is associated with prenominal or postnominal modification. The first position to the left of tax is occupied:

-by a noun in 102 instances, which is roughly 9%:

turnover tax (68) income tax (10) consumption tax (6) export tax vehicle tax

- by a noun-group in 366 cases:

value added tax (264)

-by an -ing form in 23 cases:

a withholding tax (11)

In a number of cases (94), tax is qualified by a prepositional phrase:

tax on exports/export/exportation (14) tax on profit or loss (10) tax on services (9) tax on sales (1)

Through postnominal qualifications, the objects and services upon which taxes can be imposed are generally specified. As we can see in the examples, specification can take place both in postmodification and in premodification: tax on export or export tax.

It is interesting to observe that adjectives occur as modifiers in a limited number of instances, 19 examples out of 1204, which is lower than 2 %.

In the examples where the word tax is not associated with modification or qualification, the first position on the left is occupied:

-by a preposition:

after tax (18) before tax (3) subject to tax (11) liable to tax the amount of tax (10) - by the article the (106). The occurrence of a is lower, as we have only 19 instances.

The concordance shows that the occurrence of tax without modification tends to concentrate in instances where it is either preceded or followed by a comma, by and, or or...

duty and tax a toll, tariff, tax, excise duty and other charges

Tax and duty are important collocates. Their co-occurrence is strong also when there is a modifier at N-1 position and when tax is in the plural form:

turnover tax and excise duty turnover tax, excise duty/duties and other consumption taxes

Another point can be observed. Adjectives rarely occur at N-1 position when the word is in the singular form; they dominate the pattern, however, when it is in the plural form. We find classifying adjectives such as *internal*, *national*, *local*, *direct*, *specific*, *various* to specify the class the tax belongs to. The examples suggest that *tax*, in its singular form, has three different meanings:

- 1) a general, indefinite meaning in the first instances, when followed by a noun and used as a modifier;
- 2) 2) a general collective meaning, in the second group of instances, when there is no modifier at N-1 position, either on the left or on the right;
- 3) 3) a specific one, when there is a modifier at N-1 position, on the left.

There is a hyponymic relation between 3 and 2, which can be exemplified by such pairs as *turnover tax* and *tax*.

A quick scan through the concordance of *tax* in its plural form shows that the collocates present a limited overlapping between singular and plural forms:

```
of Member States concerning turnover taxes ( 67 / 227 / EEC ) The Council of th
ary 's charges , - other charges and taxes , - net income , - distributions and
amp duties and , more generally , any taxes , duties or charges which cannot be
they are not already included: ( a ) taxes , duties , levies and other charges
directly linked to that transaction , taxes , duties , levies and charges and in
 taxes , provided however that those taxes , duties or charges do not , in trad
they are not already included : ( a ) taxes , duties , levies and other charges
retail selling price inclusive of all taxes , or ECU 20 per kilogram - other smo
retail selling price inclusive of all taxes , or ECU 15 per kilogram . 2 . The r
retail selling price inclusive of all taxes , or ECU 7 per 1 000 items or per ki
tinue to apply , by means of turnover taxes , average rates of equalisation of t
they are not already included : ( a ) taxes , duties , levies and other charges
72 / 464 / EEC of 19 December 1972 on taxes , other than turnover taxes , which
retail selling price inclusive of all taxes , or ECU 15 per kilogram . 2 . The r
he Member States relating to turnover taxes - common system of value added tax :
he Member States relating to turnover taxes - Common system of value added tax :
of Member States concerning turnover taxes introduction of value added tax in cannot be characterized as turnover taxes . Title XIx Final provisions Article
```

assessment of the following indirect taxes: - value added tax , - excise duty * value added tax (vat) and other taxes and consumption * * * (*) 16.11 ereas the structure and rate of these taxes and contributions vary considerably meet these requirements since these taxes are not neutral from the point of vi an amount not exceeding the dues and taxes charged for the issue of identity ca taxes or not Nor may these duties and taxes exceed those which are applicable to for home use , the customs duties , taxes having equivalent effect and agricul bligations relating to the payment of taxes in accordance with the legal provisi eaty to offset the burden of turnover taxes levied in accordance with the cumula er event , Member States may levy the taxes mentioned in the Annex for periods e traordinary profit or loss 15 . Other taxes not shown under the preceding items October 1992 on the approximation of taxes on manufactured tobacco other than c urnover taxes * (*) * (*) 16.12 * taxes on consumption * (*) * (*) 16.2 hem to effect a correct assessment of taxes on income and capital and any inform or certain services , such as landing taxes or embarkation or disembarkation fee Amending Directive 72 / 464 / EEC on taxes other than turnover taxes which affe amending Directive 72 / 464 / EEC on taxes other than turnover taxes which affe 72 / 464 / EEC of 19 December 1972 on taxes other than turnover taxes which affe taxes listed in paragraph 3 . 3 . The taxes referred to in paragraphs 1 and 2 ar on laid down in (1) above, maximum taxes shall be levied on that quantity of

Let us consider the "top ten":

turnover taxes
national taxes
domestic taxes
internal taxes
specific taxes
direct taxes
export taxes
import taxes
various taxes
local taxes
all/those/these taxes

Adjectives dominate the pattern and the specific value prevails. They are used to mention specific taxes, referred to in their unspecified amount. In the singular form the modification tends to refer to goods and services on which taxes can be imposed, while in the plural form, reference is made to a more general distinction, drawn on conceptual lines.

Both in the singular and plural form, duty is a significant collocate:

any taxes, duties or charges duties or/and taxes taxes, duties and charges duties, taxes and levies vat, taxes, duties or charges national taxes and charges

Duty collocates with tax, but the lexical environment of the two words is different. It is clear from a superficial glance that the first position to the left of duty is also occupied by a noun in a high number of instances. But their most prominent collocates do not overlap, as the concordance below illustrates:

lente in Italian, collocating with such words as sistema, carico, franchigia,

rtation of a product subject to excise duty ' shall mean the entry of that pro ... moteur , - Ireland : vehicle excise duty , - Italy : (a) tassa automobilist ormation purposes the amount of export duty , as calculated by the declarant . A for the purposes of charging capital duty, as a capital company, but is not nths following its importation free of duty, except in circumstances duly justi any refunding of turnover tax and / or duty , failing which the quantities set o kills and competence required for this duty, in accordance with the national la ing the skills and competence for this duty , in accordance with the national la mber States may apply reduced rates of duty, which may be differentiated in acc exceeding 10 litres shall be admitted duty - free in such a container, without ardization of provisions regarding the duty - free admission of fuel contained i thorized limits and conditions for the duty - free entitlements . " Article 6 1 , held , received or dispatched under duty - suspension arrangements by an auth ao , - United Kingdom : vehicle excise duty . 2 . Member States which replace an following shall be subject to capital duty : _ the transfer of the effective ce of the sum of the proportional excise duty and the specific excise duty which t rmined with the control set for a 50 % duty cycle . 6.3.6 . Waffle irons , grill igible for reimbursement of the excise duty due from the tax authorities of the introducing a system whereby capital duty is to be charged only on transaction The specific component of the excise duty may not be less than 5 % or more tha European Community , Whereas it is the duty of Member States to protect, on the ty on all products chargeable with the duty on intermediate products . 3 . A Mem the most appropriate basis for levying duty on wine and intermediate products is 8 . the amount of the specific excise duty shall be established by reference to ity transport of products under excise duty suspension arrangements must be esta to permit Member States to apply the duty to gravity bands of more than one de ends to hinder the performance of this duty Whereas a fair and effective applica erters must be designed for continuous duty with intermittent loading and a 15 % the case of goods liable to ad valorem duty with a minimum or a maximum duty bas cts originating in EFTA States free of duty without having to resort to the inwa

Excise or customs does not collocate with tax, nor does turnover collocate with duty. On closer inspection of the collocates duty and tax, we see that in the first group of examples, the noun groups, where tax and taxes occur, reference is made to direct taxation, while in the second group of instances, where duty and duties occur, reference is made to indirect taxation.

Through the terms, turnover tax/taxes, direct taxes are exemplified; through excise duties, indirect taxes are exemplified. In considering the English corpus data we find that customs/excise duties are levied on petrol, wines, tobacco, etc. Duty is a tax levied on commodities, transactions or estates rather than on persons. It is an indirect tax. In English a primary distinction is drawn between direct and indirect taxation. In this distinction, a deviant example can be found in the occurrence of VAT, value-added tax, a tax paid on the supply of all goods and services in the U.K., introduced in 1973 to harmonize the British tax system with that of the other E.C. countries. The occurrence may be explained by the general character acquired by the tax, and by the superordinate value that the word tax holds

Imposta and tassa in the Italian corpus

If we consider the data of the Italian corpus, we find significant similarities and dissimilarities

As to the first meaning of tax, a class shift is implied: the adjective fiscale, as we can observe going through the Italian corpus, is its translational equiva-

talune forme di frode o di evasione fiscale , HA ADOTTATO LA PRESENTE DIRETTIVA del progresso dell 'armonizzazione fiscale , non consente ancora in Danimarca cora ammortizzate dal punto di vista fiscale , essi estendono il beneficio di ta LL ' APPLICAZIONE DELLA LEGISLAZIONE FISCALE , NELL ' ALLEGATO OCCORRE INDICARE olli da parte dell 'amministrazione fiscale . b) Ogni soggetto passivo deve te di previdenza sociale , - sul regime fiscale . 2 . Gestione commerciale e finanz lta, sono effettuate in un deposito fiscale. Articolo 12 L'apertura e il fun bro in cui è autorizzato il deposito fiscale ; » . 4) All 'articolo 14 è aggiu gli obiettivi dell' armonizzazione fiscale; che le esenzioni all' importazio RIPRESE PER IL CALCOLO DELL ' ONERE FISCALE ANTERIORE , CONFORMEMENTE ALLE DISP OTATI . 2.5 . INDICAZIONE DEL REGIME FISCALE CONCERNENTE QUALSIASI IMPOSTA E TAS AGLI ESERCIZI PRECEDENTI E L ' ONERE FISCALE GIÀ PAGATO O DA PAGARE PER TALI ESE COMMISSIONE IL CALCOLO DELL ' ONERE FISCALE MEDIO , STABILITO IN CONFORMITÀ DEG RATO IN UNA FASE QUALSIASI L ' ONERE FISCALE NELLE FASI ANTERIORI NON E STATO CA piena applicazione della franchigia fiscale accordata ai viaggiatori provenient ; c) regime sospensivo : il regime fiscale applicabile alla fabbricazione , al opportuno garantire un 'incidenza fiscale armonizzata per tutti i prodotti ap erando che le disposizioni di natura fiscale che si frappongono attualmente alla distorsioni ; che soltanto un regime fiscale comune può pertanto costituire una

funzionari dell ' amministrazione fiscale di uno Stato membro sul territorio ne , con l 'applicazione del regime fiscale e di altre forme di contributo prev dei sistemi fiscali sulla politica fiscale e di bilancio degli Stati membri no del consolidamento tra l' onore fiscale imputabile all'esercizio in corso ese abbia nominato un rappresentante fiscale in detto paese . Gli Stati membri p le sigarette può comportare un onere fiscale minimo il cui massimale è determina me objettivo la frode o l'evasione fiscale o ha come consequenza che una socie delle aliquote per motivi di equità fiscale o di ordine sociale ovvero per perm

deposito, esenzione, evasione, etc.:

to riguarda in particolare il regime fiscale dei redditi , gli organismi finanzi di funzionari dell 'amministrazione fiscale dell 'altro Stato membro . Le moda dei prodotti . Ouesto rappresentante fiscale deve essere stabilito nello Stato m

This may be traced back to the different formation of noun groups in English and in Italian. In English a noun can be modified both by an adjective and by a noun. Most noun groups consist of two or more nouns - tax law, etc.. In Italian, they predominantly consist of a noun either preceded or followed by one or more adjectives - diritto fiscale, etc.. Prenominal modification prevails in English. Postnominal modification prevails in Italian. This can have an important bearing on our analysis of right and left collocates

As far as meanings 2 and 3 are concerned, a parallel can be drawn between the occurrences of tax/taxes in the English corpus and imposta/imposte in the Italian. In a high percentage of cases, tax finds a counterpart in imposta or imposte.

Imposta, like tax, is used as a superordinate and is used in the singular and in the plural with a number of nouns as collocates.

However, if we consider the collocates of imposta, we notice relevant differences in the collocation.

```
erisce la domanda di rimborso dell ' imposta ( ad esempio : partecipazione all '
tato designato quale debitore dell ' imposta , in conformità dell ' articolo 28
re sia tenuto in solido a pagare 1 ' imposta ; » . 20 ) All ' articolo 28 novies
TRODUZIONE DEL SISTEMA COMUNE DELL ' IMPOSTA SUL VALORE AGGIUNTO ; CONSIDERANDO
odotti a causa dell ' alto livello d imposta al quale sono attualmente assoggett
della loro produzione , esclusa l'imposta che colpisce la vendita da parte de
on sono autorizzati a dedurre dall ' imposta che devono versare 1 ' imposta sul
può procedere alla deduzione dell' imposta che avesse eventualmente gravato su
26 bis , parte B , paragrafo 3 e l ' imposta che si considera inclusa in detto p
ro , una riduzione od un esonero d ' imposta che dovrebbe comportare per esso un
el Regno Unito , o a qualsiasi altra imposta che venga a sostituire una delle im
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d 'antiquariato assogettate all 'imposta conformemente alla lettera a) sono corso delle tappe precedenti , l 'imposta di consumo è in linea di massima ri affari , accise o qualsiasi altra imposta di consumo . Per 1 ' applicazione d ato e si stabilisce l'aliquota d'imposta di base applicabile per gli importi etti passivi e sono debitrici dell ' imposta dovuta a titolo di acquisti intraco curare 1 ' esatta riscossione dell ' imposta e ad evitare le frodi , a condizion beneficiano della franchigia dall 'imposta prevista all 'articolo 24 e della proporzionale e 1 ' importo dell ' imposta specifica devono essere uguali per ari , di accise o di qualunque altra imposta sui consumi . Per l ' applicazion che sono già stati sottoposti all 'imposta sul conferimenti ; l 'ammontare di dazi doganali , e concernente l 'imposta sul valore aggiunto (86 / 489 / CE passivo , registrato ai fini dell ' imposta sul valore aggiunto all ' interno d ottenuti , per quanto concerne l' imposta sul valore aggiunto , sia lo stesso Stati membri , del sistema comune di imposta sul valore aggiunto , senza la cont particolare le seguenti : Italia : Imposta sul reddito delle persone fisiche I azione della base imponibile di un 'imposta sul reddito , sui benefici o sulle il 1 o gennaio 1995 , in materia di imposta sul valore aggiunto IL CONSIGLIO DE relativà alle imposte diverse dall ' imposta sulla cifra d ' affari che gravano

A further observation is to be made. Position N-1 to the left of *imposta* is generally occupied by definite article and the noun is generally modified on the right. N-1 and N-2 positions on the right are generally occupied by post-modification. The different uses of the article and the different structure of the noun group play an important role in a concordance which cannot be overlooked, and which will be the object of further analysis.

If we examine the corpora and focus on the instances where the enumerations occur, we find *taxes*, *duties* and *charges* mentioned as different types of contributions in English. The word *charges* tends to occur as a general, inclusive term, at the end of the enumeration; the most prominent collocates are *duty* and *tax*. It is interesting to compare *duty* with *tassa*, which one might expect to be its equivalent. But we see that the occurrences of *tassa* are definitely lower. There are 31 citations of *tassa*; every third one is reproduced here:

74, relativo alla riscossione di una tassa all'esportazione di taluni prodott stica, b) addizionale del 5 % sulla tassa automobilistica; - Lussemburgo: ta erale, qualsiasi imposta, diritto e tassa che non abbia il carattere di impost ti sia stata pagata in anticipio e la tassa complessiva esigibile sui prodotti a a condizione che essi prelevino una tassa di controllo di ecu 5 per 1000 litr effetto di rendere l'importo della tassa inferiore alle aliquote minime previ diritti d'utenza in funzione della tassa nazionale sugli autoveicoli. Questo che tuttavia tale imposta, diritto e tassa non dia luogo, negli scambi fra Sta ri si sostituiscono a qualsiasi altra tassa o contributo sanitario riscosso dall herm. (2) Il prezzo al netto della tassa si ottiene direttamente dalle tariff

There are 122 citations of tasse. Every fourth one is reproduced here:

```
te , degli oneri legali obbligatori ( tasse , imposte e diritti ) nonché delle s
  limiti previsti da spacci esenti da tasse , nel quadro del traffico di viaggia
le imposte , i dazi , i prelievi e le tasse , - le spese accessorie quali le com
le imposte , i dazi , i prelievi e le tasse , le spese accessorie quali commissi
mente esenti da dazi e tasse e dazi e tasse compresi , pubblicati o no , di un p
ncessa una franchigia dalle imposte e tasse di cui all'articolo 1 in caso di i
ncessa una franchigia dalle imposte e tasse di cui all 'articolo 1 , per una du
revolmente aumentare il livello delle tasse attualmente applicate agli autoveico
me dovute a titolo di dazi doganali , tasse d ' effetto equivalente o prelievi a
 sostanze nella base di calcolo delle tasse di circolazione dei veicoli a motore
icare l ' importo dei dazi doganali , tasse di effetto equivalente , prelievi ag
portazione » sia i dazi doganali e le tasse di effetto equivalente sia i preliev
  esenzione dai dazi doganali , dalle tasse di effetto equivalente e dai preliev
nire determinati i dazi doganali , le tasse di effetto equivalente e i prelievi
ncessa una franchigia dalle imposte e tasse di cui all 'articolo 1 in caso di i
tato membro che sostituisca una delle tasse di cui al paragrafo 1 con un ' altra
della tariffa doganale comune , delle tasse di effetto equivalente , dei preliev
mo autorizzata , i dazi doganali , le tasse di effetto equivalente ed i prelievi
portazione : sia i dazi doganali e le tasse di effetto equivalente , sia i preli
importazione » , i dazi doganali e le tasse di effetto equivalente , i prelievi
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itti e tasse su certi servizi , quali tasse di atterraggio , di sbarco o di imba oste , i dazi , i prelievi e le altre tasse dovuti fuori del paese di importazio stati ugualmente istituiti prelievi , tasse e importi compensativi monetari all li Stati membri possono riscuotere le tasse elencate nell'allegato della prese olo mediante l'armonizzazione delle tasse o delle accise , ma che , in attesa la conoscenza della fiscalità e delle tasse parafiscali esistenti in ogni Stato relativà alla soppressione di alcune tasse postali per la presentazione in doga na somma non eccedente e diritti e le tasse richiesti ai propri cittadini per il vi al pagamento delle imposte e delle tasse secondo le disposizioni legali del p ssoquettati ad aliquote ridotte delle tasse sugli autoveicoli ; che , ai fini d

If we consider the collocates, we find that the word *tassa is* modified by adjectives, such as *automobilistica*, and noun phrases and prepositional phrases, such as *di circolazione, sulla circolazione, di atterraggio, di soggiorno*. The reference to direct and indirect taxation is not made in the distiction drawn in Italy between *imposta* and *tassa*. Different conceptual categories are applied in English and in Italian. *Tassa automobilistica*, which finds its equivalents in the corpus data both in *vehicle tax* and in *vehicle duty*, is something paid for a consideration of value. A payment is due in return for services. An outstanding feature of Italian tax law is the distinction made with regard to contributions levied on a person with or without regard to personal services or adavantages conferred on that person by law. The word *tassa* occurs when the payment is meant as a counterpart of personal or general services.

In the plural form, the word *tasse* presents a more general value, which includes unspecified taxes and charges of many kinds, and finds its equivalent in *charges:*

Tasse di effetto equivalente charges having equivalent effect

By the words tax, duty and tassa, imposta different kinds of contributions are identified. Even limiting our analysis to positions N-1, N-2, N-3, we can discover relevant differences in the prominent collocates, and distinctions can be made between the different law systems. This brings to the fore another notable feature of our research. Legal language is deeply rooted in the institutional and historical traditions of a country. Meanings are bound to institutional practices. Further distinctions emerge and our analysis is to be extended to include not only tax, and duty, but also other words such as charge, rate, fee, etc., highlighting both their collocation and the equivalence that can be identified for translation. It should also include a closer examination of the cases in which difficulties may arise from the lack of syntactic correspondence between English compounds such as tax-payer or chargeable event, and Italian nouns and noun groups such as contribuente or fatto generatore dell'imposta. This is a further step, which can be made using corpora, and through practices which are not so different from the ones used in bringing forth and highlighting the equivalence between tax and imposta – an equivalence, it should be noted, which is not mentioned in any dictionary.

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A study of translation equivalence in the Chinese-English text of Plato's *Republic*

Abstract

Based on the English-Chinese parallel corpus of Plato's *Republic*, we study the translation equivalence in the Chinese-English text of the corpus. Our study concentrates on the first chapter "Convention under Attack" and is focusing on three levels: paragraph level, sentence level and word level. The paper describes the agreement and disagreement between English and Chinese in these three levels. Finally an experiment of word alignment based on the corpora is introduced.

1. English-Chinese Parallel Corpus of Plato's Republic

Plato's Republic is a very famous and important philosophical monography. It is a sprawling work, and it also sprawled to China. In 1957, a Chinese translation from Greek was published, the translator is Wu Xianshu. Wu's translation was rather archaic and abstruse. In 1986, another Chinese translation version (also translated directly from Greek) was published, the translators are Guo Binhe and Zhang Zhuniing, both being professors of the history of philosophy. Guo/Zhang's version is easy and smooth, it is very popular in China and it has attracted a lot of Chinese readers. We decided to take Guo/Zhang's version as our study material. It was then manually put into electronic format as a corpus of Plato's Republic in Chinese translation. In 1996, Professor John Sinclair sent me a diskette containing a machinereadable corpus of the English translation of Plato's Republic, translated by Benjamin Jowett, and published in 1901 by Colonial Press. At the same time, Dr. Wolfgang Teubert sent me the book of this English version. With the help of Dr. Wolfgang Teubert and Professor John Sinclair, we set up a Chinese-English parallel corpus of Plato's Republic, where both versions were translated from the same language - Greek. The volume of the Chinese version is 443 136 bytes, and the volume of English version is 653 318 bytes.

Based on this parallel corpus, we started to study the translation equivalence in the Chinese-English text of Plato's *Republic*. Our study was concentrated to the first chapter "Convention under Attack". For the first chapter, the Chinese volume is 43 648 bytes, and the English volume is 67 200 bytes.