



Anderson Bertoldi Rove Chishman Thais Domênica Minghelli Carolina Müller Carla Krieger Valle

**Applied Linguistics Graduate Program** Universidade do Vale do Rio dos Sinos (UNISINOS)













### Some initial aspects regarding FrameNet:

- ☐ FrameNet for different languages: Spanish (Subirats, 2009), Japanese (Ohara, 2009) and Portuguese (Salomão, 2009).
- ☐ Frame-based lexicon for the soccer language (Schmidt, 2009).
- ☐ Semantic annotation of corpora (Burchardt et al., 2009).
- ☐ Legal ontology improvement (Agnolini et al., 2010).
- ☐ Legal text annotation (Venturi, 2011).
- ☐ This work: discusses the development of legal frames and the use of FrameNet frames for legal applications.

### Methodology:

- (1) Selection of FrameNet frames, which describe legal events or are related to legal domain;
- (2) Identification of such frames into a more principal-oriented legal frame or based-oriented legal frame;
- (3) Contrastive study of such frames, searching for correspondences in the conceptual and linguistic levels;
- (4) Selection of examples to illustrate occurrences of LU in Portuguese.



## Levels of correspondence in the legal domain:

□Law is a social-oriented science and due to this legal terms may not find equivalents in another language, in another legal system.

□Some legal events described by FrameNet, a criminal process for instance, may not be **equivalent in different legal systems**.

□It is not only an issue of **linguistic equivalence**, but an equivalence of **systems**.



## FrameNet Criminal\_process frame & Brazilian Criminal process frame

- ✓ Different equivalence levels between frames;
- ✓ Frame equivalence involves:
- □Conceptual correspondence
- (How close are the legal events being compared?)
- **□FE** correspondence
- (How similar are the participant's roles in both frames?)
- □Lexical correspondence
- (How is the legal concept's translation?)



## The simplest correspondence case

The FrameNet frame Try\_defendant &

The Brazilian Try\_defendant frame

- □Equivalent frames;
- □Describe similar legal events;
- □Correspondent:
- \*FE
- \*LU evoking the frames



Try\_defendant

#### **Legal event:**

A **DEFENDANT** is tried by a JURY or **JUDGE** in a COURT for **CHARGES**. This frame perspectivalizes the general Trial frame.

#### Frame elements:

CHARGES
DEFENDANT
GOVERNING\_AUTHORITY
JUDGE
JURY

#### **Lexical Units:**

try.v \_\_\_\_\_

#### Jur-FrameNet.Brasil

Try\_defendant

#### **Legal Event:**

The Try\_defendant frame describes the trial of a **DEFENDANT** who is charged of a crime. A **JURY** is responsible for evaluating the **CHARGES** and deciding whether the **DEFENDANT** is guilty or not-guilty.

#### Frame elements:

CHARGES
DEFENDANT
GOVERNING\_AUTHORITY
JUDGE
JURY

#### **Lexical Unit:**

Julgar.v



# A more complex correspondence case

The FrameNet frame Notification\_of\_charges &
The Brazilian frame Notification\_of\_charges

□Correspondence on lexical level (charge/acusação/ indictment/pronúncia)

□Lack of correspondence on the legal event (Notification of charges & *Denúncia*) (Judge & Prosecutor)



Notification\_of\_charges

#### **Legal event:**

The judge or other court officer (the **ARRAIGN\_AUTHORITY**) informs the **ACCUSED** of the **CHARGES** against him/her, i.e. the alleged actions and the relevant laws.

#### Frame elements:

ACCUSED
ARRAIGN\_AUTHORITY
CHARGES

#### **Lexical Units:**

accuse.v,

charge.n, — >

indictment.n — \*\*\*

#### Jur-FrameNet.Brasil

Charging

#### **Legal Event:**

The Charging frame represents a legal event in which the prosecution, PROSSECUTION\_AUTHORITY, charges the ACCUSED.

#### Frame elements:

ACCUSED PROSSECUTION\_AUTHORITY CHARGES

#### **Lexical Units:**

Acusar.v

Acusarção.n

Acusar.v

Pronunciar.v

Pronúncia.n



### Example of an annotation:

#### Charging

The Charging frame represents a legal event in which the prosecution, PROSSECUTION\_AUTHORITY, charges the ACCUSED. The core frame elements of this frame are ACCUSED, PROSSECUTION\_AUTHORITY, and CHARGES. The frame-evoking lexical units in this frame are acusar (to charge v.), acusação (charge), denunciar (to charge), and denúncia (charge n.).

A partir desses documentos, [o Ministério Público PROSSECUTION\_AUTHORITY] denunciou [os bicheiros ACCUSED] novamente e ficou comprovado que eles mantinham suas atividades mesmo de trás das grades.



# The most critical correspondence case

The FrameNet frame Arraignment

- □A hearing session in which the accused enters a plea in response to the charges;
- □ Lack of a correspondence in the Brazilian Law;
- □Difficulty of establishing lexical and conceptual equivalence.



Arraignment

#### **Legal event:**

At a court hearing, a **DEFENDANT** is informed of the **CHARGES** against him or her, (usually) enters a plea, and a decision is made by a **JUDGE** as to the amount of bail, if any.

Frame elements:

CHARGES
DEFENDANT
JUDGE

Jur-FrameNet.Brasil

No corresponding frame

#### **Legal Event:**

No corresponding legal event in Brazilian criminal process.

Frame elements:

No frame elements

Lexical Units:

arraign.v, arraignment.n

**Lexical Units:** 

No corresponding lexical units No corresponding lexical units



### The Case of Non-Complex Frames



#### Jur-FrameNet.Brasil

Law

#### **Legal event:**

A LAW regulates activities or states of affairs within a JURISDICTION, dictating what REQUIRED states should be the case and what FORBIDDEN states should not.

Law

#### **Legal Event:**

Law is a written principle, generally **REQUIRED**, within a **JURISDICTION**, dictating what states are **FORBIDDEN**.

Frame elements:

**LAW** 

JURISDICTION

**REQUIRED** 

**FORBIDDEN** 

Frame elements:

**LAW** 

**JURISDICTION** 

**REQUIRED** 

**FORBIDDEN** 

**Lexical Units:** 

act.n

Code.n

Law.n

**Lexical Units:** 

Ato normativo.n

Código.n

Lei.n

1<sup>st</sup> the more complex the event described by a frame is, the more difficult it is to reuse FrameNet frames.



### **Futures Directions:**

- Expand the number of legal frames, creating a lexical database.
- Connect legal frames to other frame-based linguistic resources, such as the Brazilian FrameNet.
- Apply frames and FE for legal information retrieval.
- Annotate legal documents of the Brazilian courts databases.
- Describe the roles of the participants of the predication and make the mapping between syntax and semantics.



Thank you for your kind attention!

