

JusticeBot and other tools to make law better for laypeople

Let's Talk about Legal Design!
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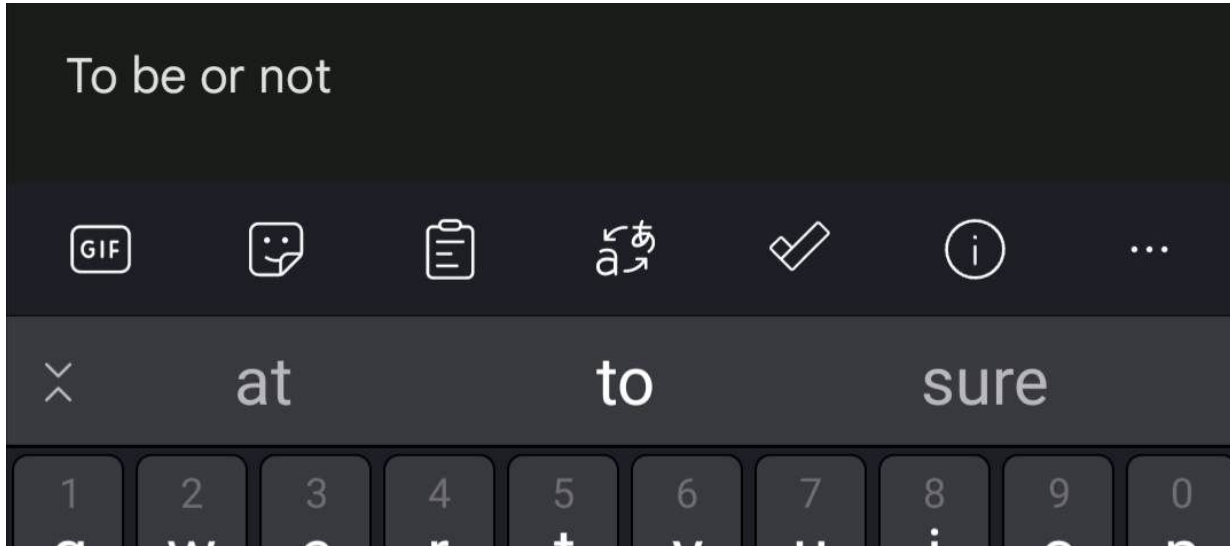
- 1. Introduction**
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- 3. Dallma**
- 4. Legal Intake**
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Introduction

Laypeople have trouble resolving everyday legal issues and obtaining government benefits.

- 1. Legal complexity**
- 2. Complexity of forms**
- 3. Cost of going to court**

Large Language models



**Can we ask ChatGPT for legal
information?**

The following articles of the Quebec Civil Code (CCQ) may be applicable to your situation as a tenant experiencing a water leak in your apartment:

1. Article 1851: This article provides that landlords must ensure that the leased property is in good condition and free of defects that may affect the tenant's use of the property.
2. Article 1864: This article provides that tenants have the right to notify their landlords of any defects in the property, including water leaks, and that the landlord must make necessary repairs within a reasonable time.
3. Article 1865: This article provides that tenants have the right to terminate their lease if the landlord fails to make necessary repairs within a reasonable time or if the property is no longer habitable.

The following articles of the Quebec Civil Code (CCQ) may be applicable to your situation as a tenant experiencing a water leak in your apartment:

1. Article 1854 This article provides that landlords must ensure that the leased property is in good condition and free of defects that may affect the tenant's use of the property.
2. Article 1864: ~~This article provides that tenants have the right to notify their landlords of any defects in the property, including water leaks, and that the landlord must make necessary repairs within a reasonable time.~~
3. Article 1865: ~~This article provides that tenants have the right to terminate their lease if the landlord fails to make necessary repairs within a reasonable time or if the property is no longer habitable.~~

ChatGPT as an Artificial Lawyer?

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Limitations

- Hallucinations
- Overestimating model performance & reasoning
- Bias
- Privacy issues
- Blinking Cursor Problem

Good vs bad use-cases

Navigating the Jagged Technological Frontier: Field Experimental Evidence of the Effects of AI on Knowledge Worker Productivity and Quality

Fabrizio Dell'Acqua

Harvard Business School

Edward McFowland III

Harvard Business School

Ethan Mollick

The Wharton School

Hila Lifshitz-Assaf

Warwick Business School

Katherine C. Kellogg

MIT Sloan School of Management

Saran Rajendran

Boston Consulting Group

Lisa Kraye

Boston Consulting Group

François Candelon

Boston Consulting Group

Karim R. Lakhani

Harvard Business School

**What are good use-cases for
Generative AI in Law?**

JusticeBot

Demo



***Tribunal administratif
du logement***

Québec 



***Économie
et Innovation***

Québec 

Launched in July 2021, try at:

<https://justicebot.ca>

User Statistics:

(07/2021 until today)

>50,000

Uses

JusticeBot vs ChatGPT

JusticeBot & ChatGPT

*Can LLMs be used to help the
annotator with the construction of
legal pathways?*

From Text to Structure: Using Large Language Models to Support the Development of Legal Expert Systems

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A person may not be an adopter unless he is at least 18 years older than the person adopted, except where the person adopted is the child of the spouse of the adopter.
(Art 547 P1 CCQ)

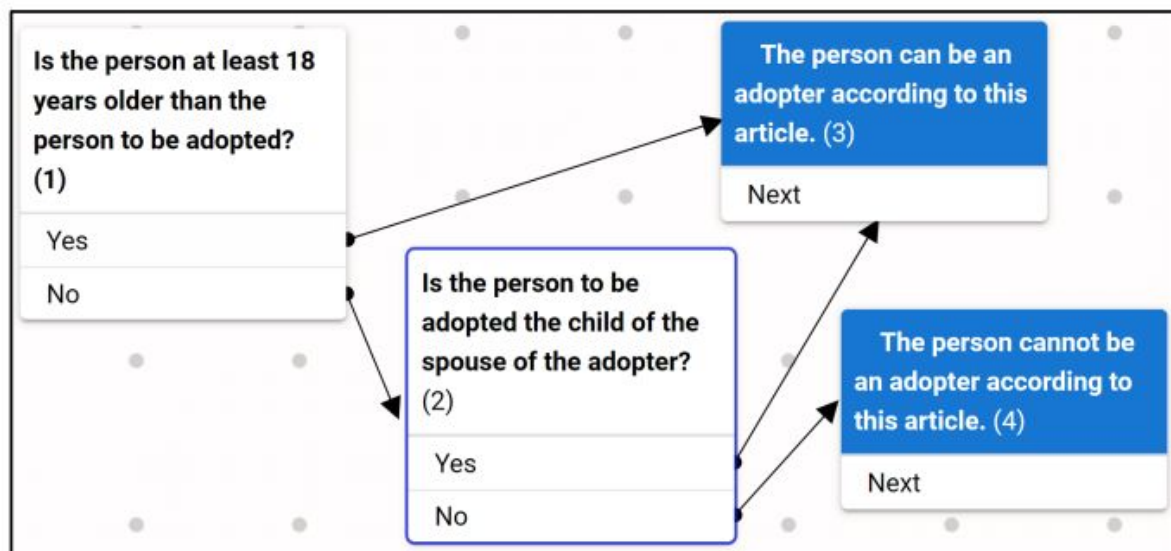


Figure 2. A legal article and the corresponding automatically generated pathway.

*Can LLMs be used to help the
summarization of relevant case law?*

Automated Mapping of Legal Criteria to the Texts of Adjudicatory Decisions Using LLMs

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Model	Overall		
	P	R	F1
GPT-4o Mini	0.946	0.924	0.932
GPT-4o	0.962	0.956	0.959
GPT-4 Turbo	0.965	0.963	0.964
Llama 3.3 70B	0.901	0.910	0.904
Llama 3.1 Nemo	0.933	0.934	0.933
Gemini 2.0 Flash Exp	0.958	0.961	0.959
Claude 3.5 Sonnet	0.971	0.968	0.969



▼ **AND** The veteran has a present disability.

└─► Cases (Yes: 6, No: 3)

AND

▼ The veteran suffered an in-service incurrence or aggravation of a disease or injury, in line of duty.

└─► Cases (Yes: 3, No: 6)

✗ **Case:** The Board found that the veteran's PTSD did not manifest during military service. The service treatment records did not show any diagnosis of PTSD, and the veteran's behavioral issues during service were attributed to a personality disorder, not PTSD. (BVA1343153)

✗ **Case:** The veteran claimed several in-service stressors related to his service in Vietnam, which could potentially serve as the in-service incurrence of a disease or injury. However, without a current diagnosis of PTSD, this branch cannot be satisfied. (BVA1400029)

✓ **Case:** The veteran engaged in combat with the enemy, as evidenced by his receipt of the Combat Action Ribbon, and his reported stressor of being on a destroyer hit by shells is consistent with his service conditions. (BVA1455333)

BVA1400029

FOCUS

Citation Nr: 1400029 Decision Date: 01/02/14 Archive Date: 01/16/14

DOCKET NO. 10-16 586) DATE))

On appeal from the Department of Veterans Affairs Regional Office in Waco, Texas

THE ISSUES

1. Whether new and material evidence has been received to reopen a claim for service connection for an acquired psychiatric disorder other than posttraumatic stress disorder (PTSD).
2. Entitlement to service connection for PTSD.
3. Whether new and material evidence has been received to reopen a claim for service connection for bilateral pes planus.
4. Entitlement to service connection for bilateral pes planus.
5. Entitlement to service connection for hyperlipidemia.
6. Entitlement to an initial compensable disability rating for erectile dysfunction.
7. Entitlement to an initial disability rating greater than 30 percent for coronary artery disease.
8. Entitlement to a higher level of special monthly compensation.

1 / 2

CATLEX (CAsE Tree-based Legal Exploration)

<https://github.com/hwestermann/CATLEX>

Dallma

*Can LLMs help user fill out forms or
draft legal documents?*

Legal Forms

- **Slot-in** responses, which can be provided without thinking, such as name and address.
- **Gathered** responses, which require the reader to spend some time locating and then entering the information that is still readily available, such as a driver's license number.
- **Third-party** responses, which require the reader to provide information that is in another person's control. For example, the income of a household member.
- **Created answers**, which require the reader to create a new response, draft a narrative, or choose among options that they had not previously considered.

*Steenhuis, Quinten, Bryce Willey, and David Colarusso.
'Beyond Readability with RateMyPDF', 2023.*



Dallma

No-code framework for semi-structured
drafting and reasoning with LLMs.

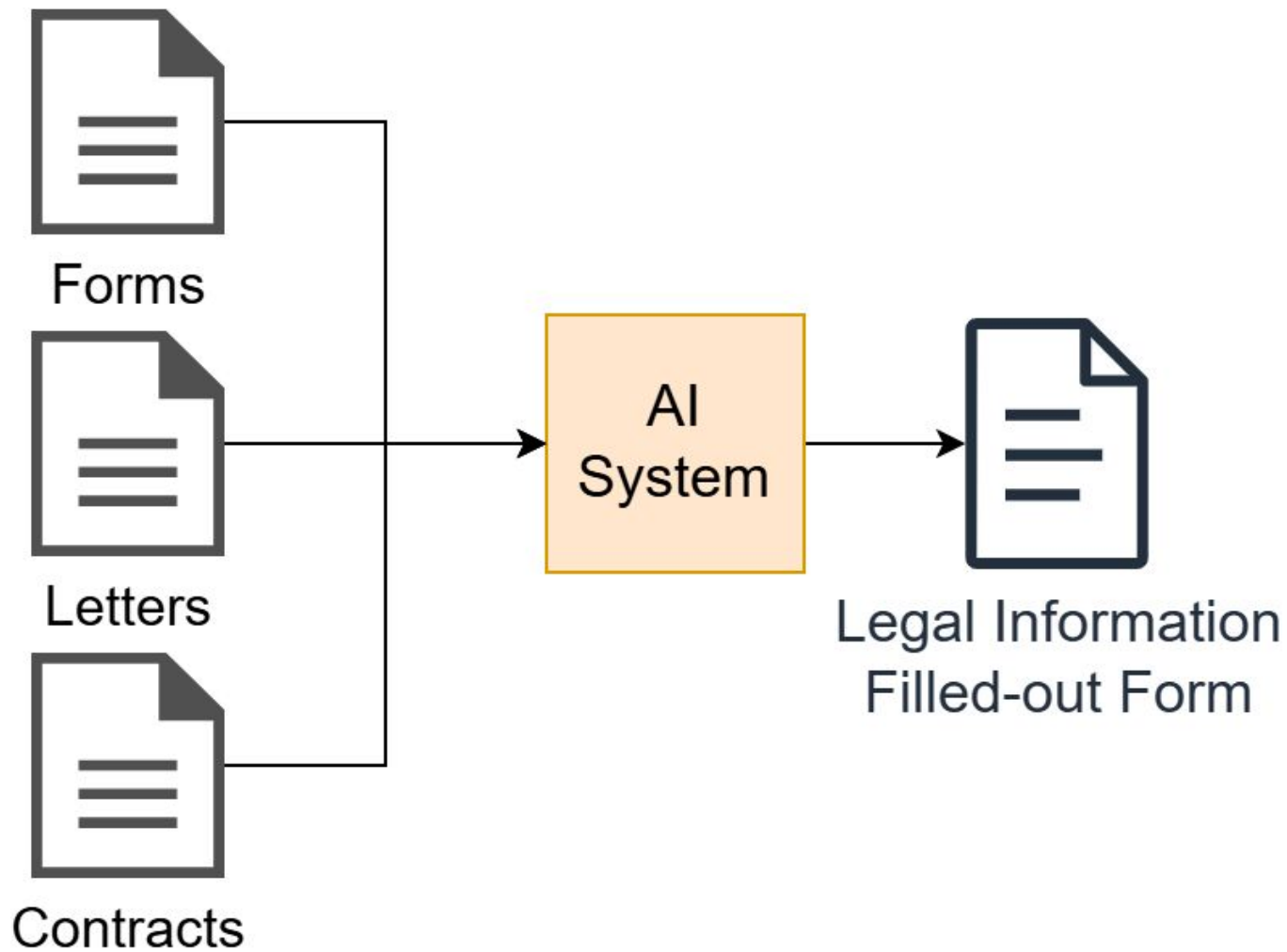
Demo

Analyzing Images of Legal Documents: Toward Multi-Modal LLMs for Access to Justice

Hannes Westermann^{1,*}, Jaromir Savelka²

¹*Maastricht Law and Tech Lab, Maastricht University, Maastricht, Netherlands*

²*Computer Science Department, Carnegie Mellon University, Pittsburgh, USA*



5 Formats - Neat (HD & SD)

1. Landlord's Legal Name
Amy Liv

Note:
See Part B in General Information
and Tenant(s)

1. Last Name
Maran

2. Last Name
Joan

Landlord(s)

1. Landlord's Legal Name
Amy Liv

Note:
See Part B in General Information
and Tenant(s)

1. Last Name
Maran

2. Last Name
Joan

5 Formats - Sloppy (HD & SD)

1. Landlord's Legal Name
~~410~~ Amy Liv

Note:
See Part B in General Information
and Tenant(s)

1. Last Name
~~Ross~~ March

2. Last Name
~~Inteh~~ Joan

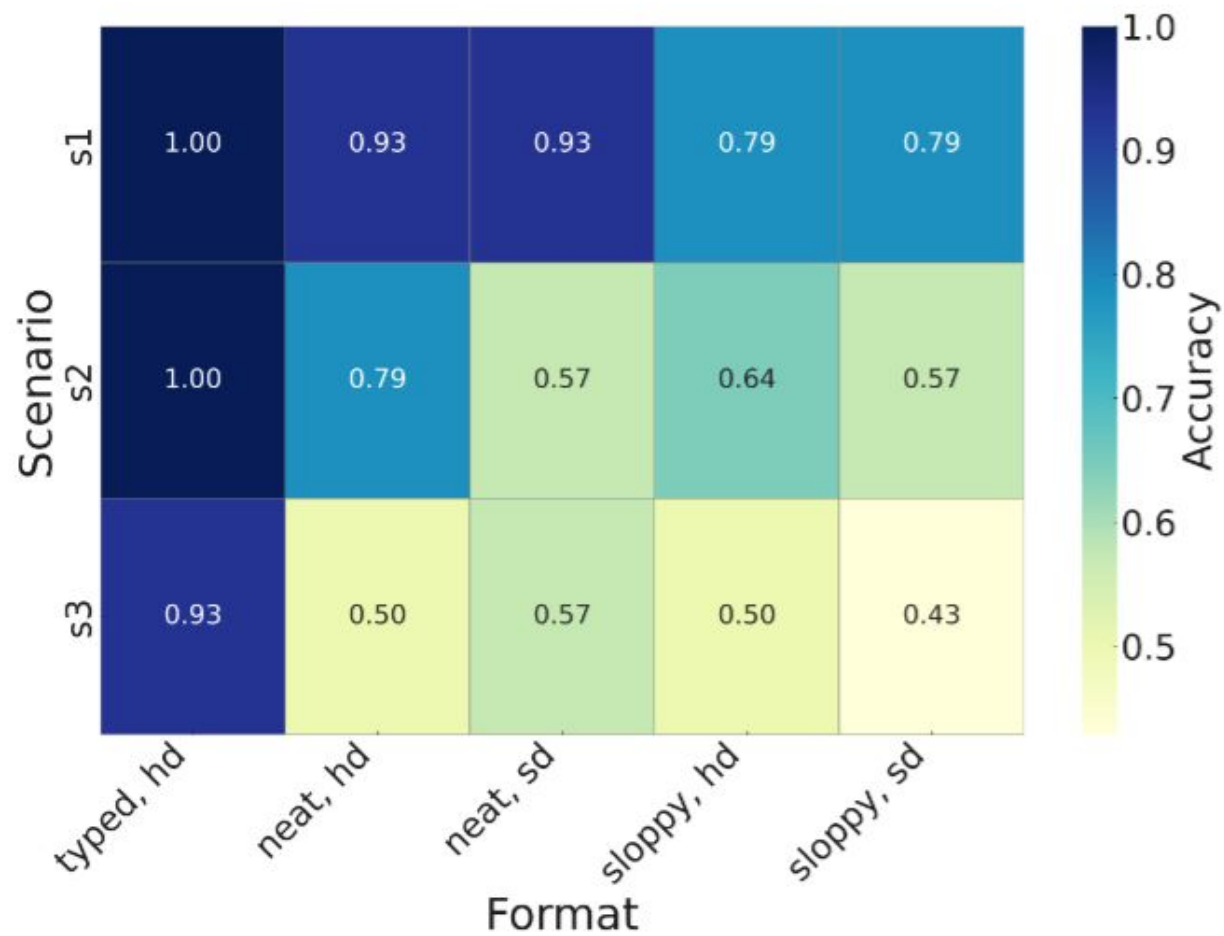
1. Landlord's Legal Name
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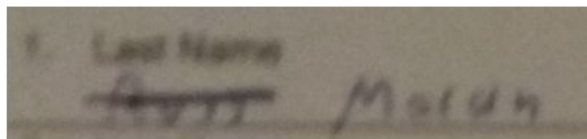
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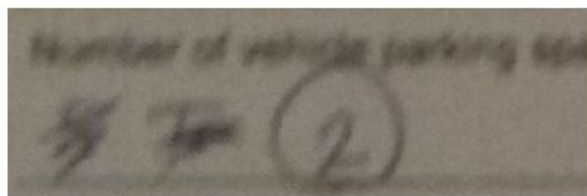
2. Last Name
~~Inteh~~ Joan

3. Last Name





(a) T: Moran, P: Moran
(S2, Sloppy, SD)



(b) T: 2, P: 2
(S2, Sloppy, SD)



(c) T: London, P: London
(S3, Sloppy, SD)

Legal Intake

Getting in the Door: Streamlining Intake in Civil Legal Services with Large Language Models

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The Problem

Determining the eligibility of applicants to receive legal aid can take a long time and a lot of resources.

Formal requirements

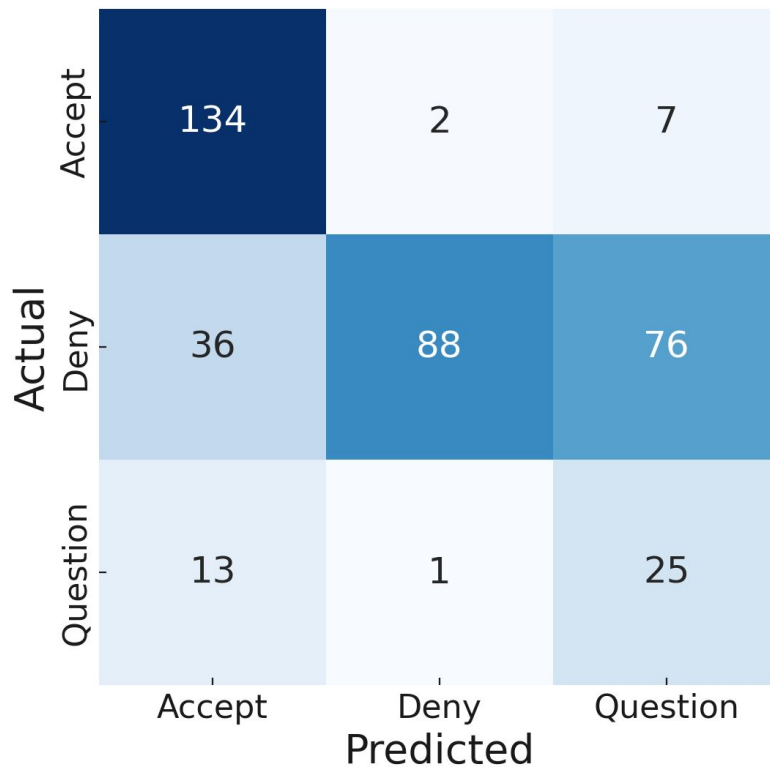
Substantive requirements

The Task

Scenario	Relevant excerpt from rule	Decision
I'm having issues with my landlord not following our lease agreement. The lease says that he is responsible for maintaining the property, but there have been so many problems, like a leaking roof and broken heating, that he hasn't fixed. I've tried to resolve this with him, but nothing has changed. I need legal advice on how to enforce the terms of my lease.	Eastern Missouri [...] g. Landlord Tenant Lawsuits Lawsuits or pre-lawsuits tenant has good claims against the landlord, management, or landlord lawyer. i. Conditions: Tenant must have notified Landlord of conditions issues and landlord has failed to address issues after notice. [...] Examples: [...] 2. No heat or ventilation	Accept

Table 2. Example of scenario, excerpt of intake rule and resulting decision

Confusion Matrix of Results



LLMediator

LLMediator: GPT-4 Assisted Online Dispute Resolution

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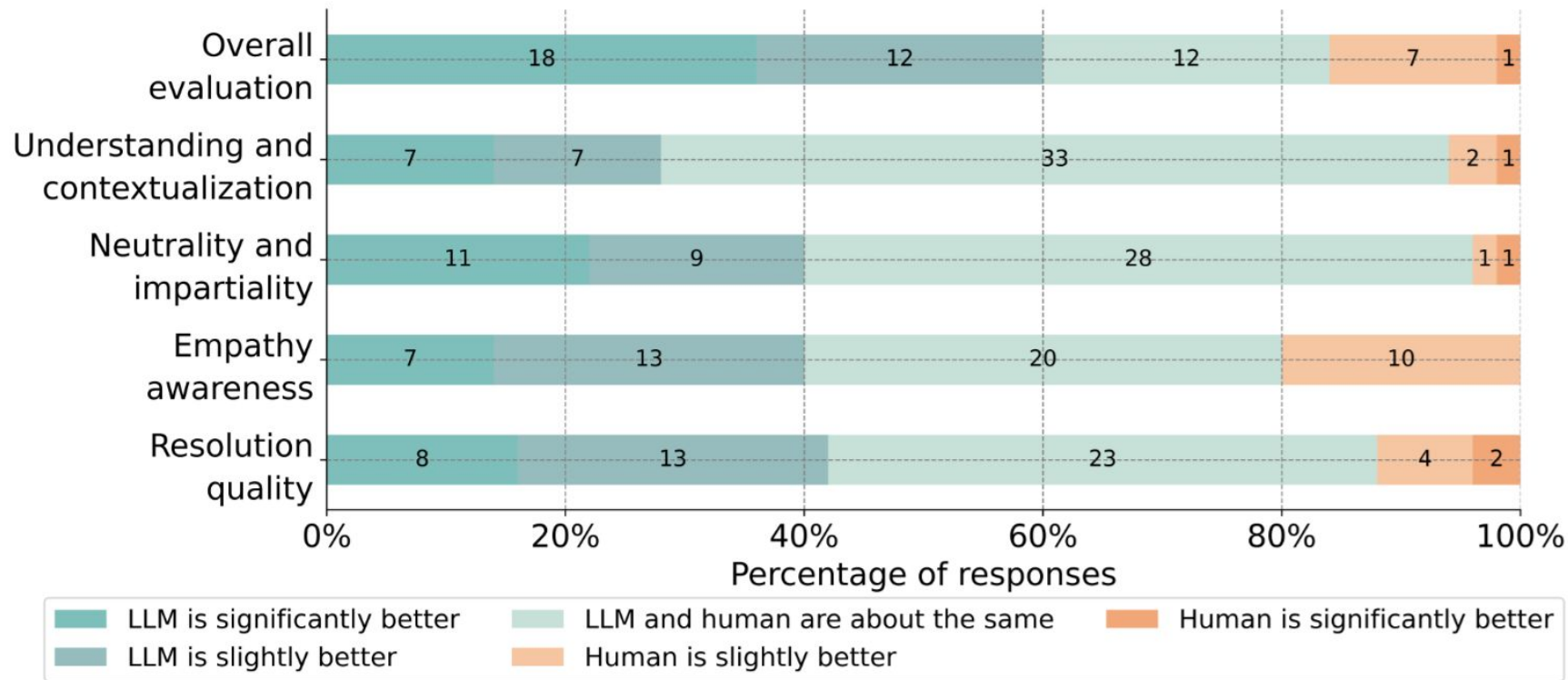
Karim Benyekhlef

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Université de Montréal

How can LLMs be used to support mediation?

Robots in the Middle: Evaluating LLMs in Dispute Resolution

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Jaromír ŠAVELKA ^d, Sébastien MEEÛS ^{a,e}, Mia GODET ^a, and
Karim BENYEKHEF ^a,



IV

Conclusion







LLMs are very powerful.

- Able to carry out many tasks *without* prior training
- A lot of potential in A2J
- Consider challenges, e.g. hallucinations.
- Find the right use-cases.
 - Augmented Intelligence
- Moving very quickly

Important considerations:

- Who is the user?
- What happens with the output?
- What is the purpose of the legal system?

Many more things to explore!

Thank you for listening!

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