PMR3500 – Trabalho de Conclusão de Curso

AULA 03: REVISÃO BIBLIOGRÁFICA

Arturo Forner
Larissa Driemeier
Oswaldo Horikawa
Thiago Martins

MUITA INFORMAÇÃO!

"There was 5 Exabytes of information created between the dawn of civilization through 2003, but that much information is now created every 2 days, and the pace is increasing."
Eric Schmidt, ex-CEO Google, 2010

Há um excesso de informação...

Muita dessa informação é perfeitamente é **INUTIL**.

Temos que poder extrair a **INFORMAÇÃO UTIL.**

NÃO REINVENTE A RODA

"Tão importante quanto aprender é colocar em prática o que você aprendeu.

Siga a trilha de quem já abriu o caminho. Você não precisa descobrir um caminho novo toda hora. Não tente reinventar a roda. Use a roda pronta para ir mais longe."

Extraído de:
Renato de Saldanha
https://renatodesaldanha.com.br

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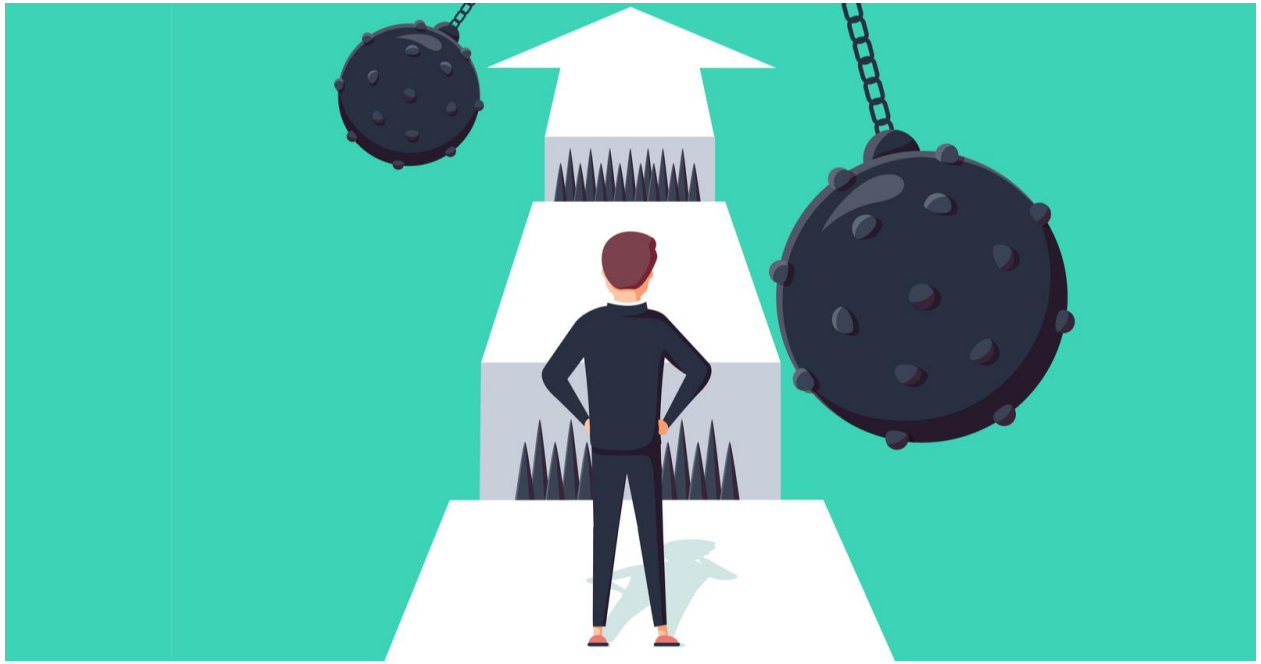
Entender quais são os desafios

- Definir os requisitos e sua avaliação



REVISÃO BIBLIOGRÁFICA-ESTADO DA ARTE

Revisão bibliográfica

- Recupera, analiza e discute artigos, patentes, relatórios publicados sobre una área de conocimiento.
- Objetivo: **fornecer contexto, motivação e justificativa** do projeto.

Estado da arte

- Análise **aprofundada** e **atualizada** do conhecimento e práticas estabelecidas em um campo de pesquisa.
- Objetivo: visão do estado de conhecimento/ desenvolvimento tecnológico atualizado.

A revisão bibliográfica e o estado da arte são relatórios do panorama bibliográfico atualizado relacionado ao seu tema.

NO SEU TCC

A revisão bibliográfica tem por função citar trabalhos prévios que influenciam o seu e contextualizam a contribuição o seu trabalho.

O estado da arte indica em qual ponto se encontra um conhecimento/tecnologia

Seu problema

Procure por trabalhos que abordam problemas similares ao seu.

Quais as ferramentas mais utilizadas na solução do problema.

O que deu certo e o que não funciona.

Qual o limite do conhecimento no assunto? Eventualmente, qual o trabalho pioneiro?

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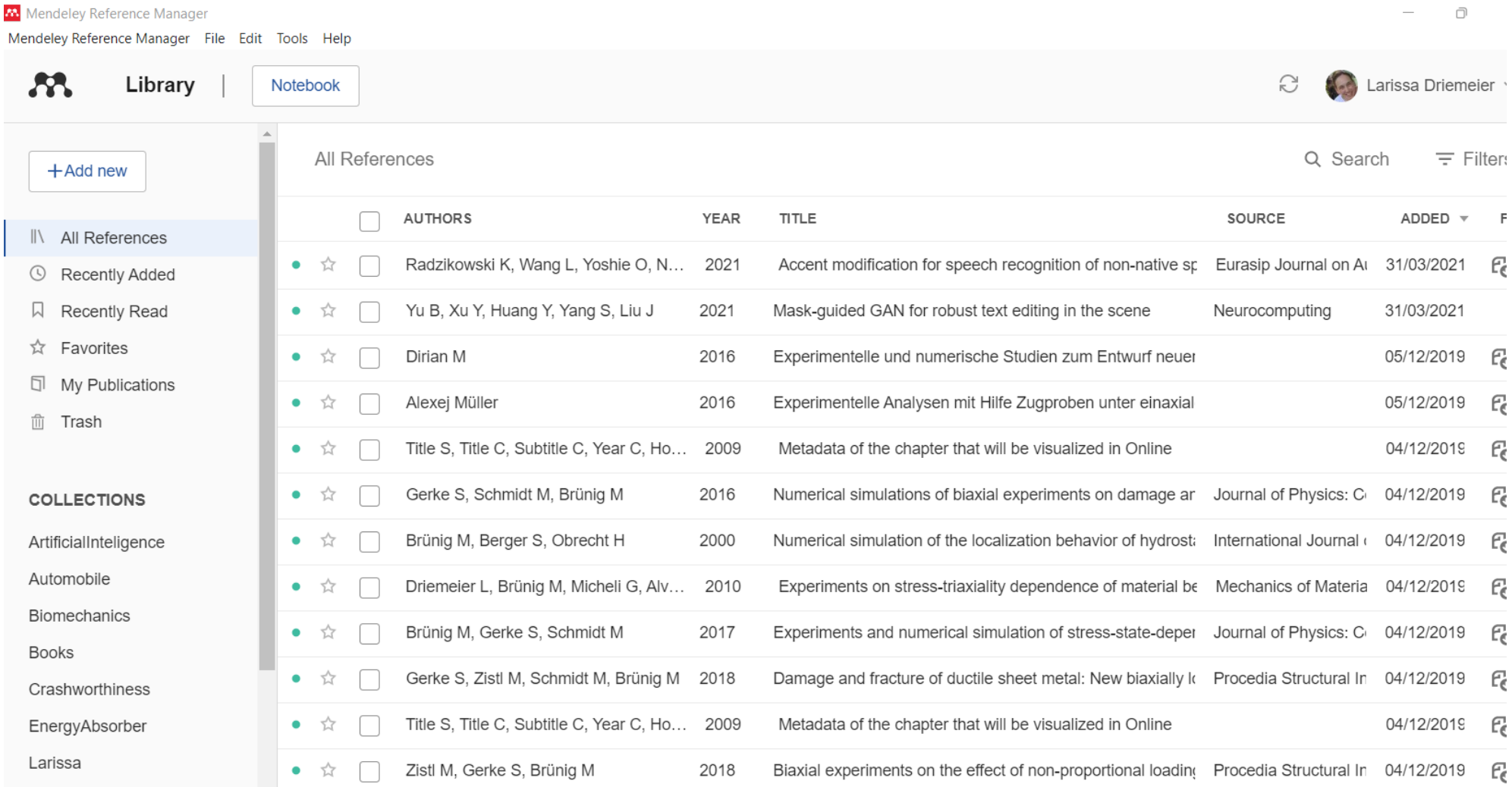
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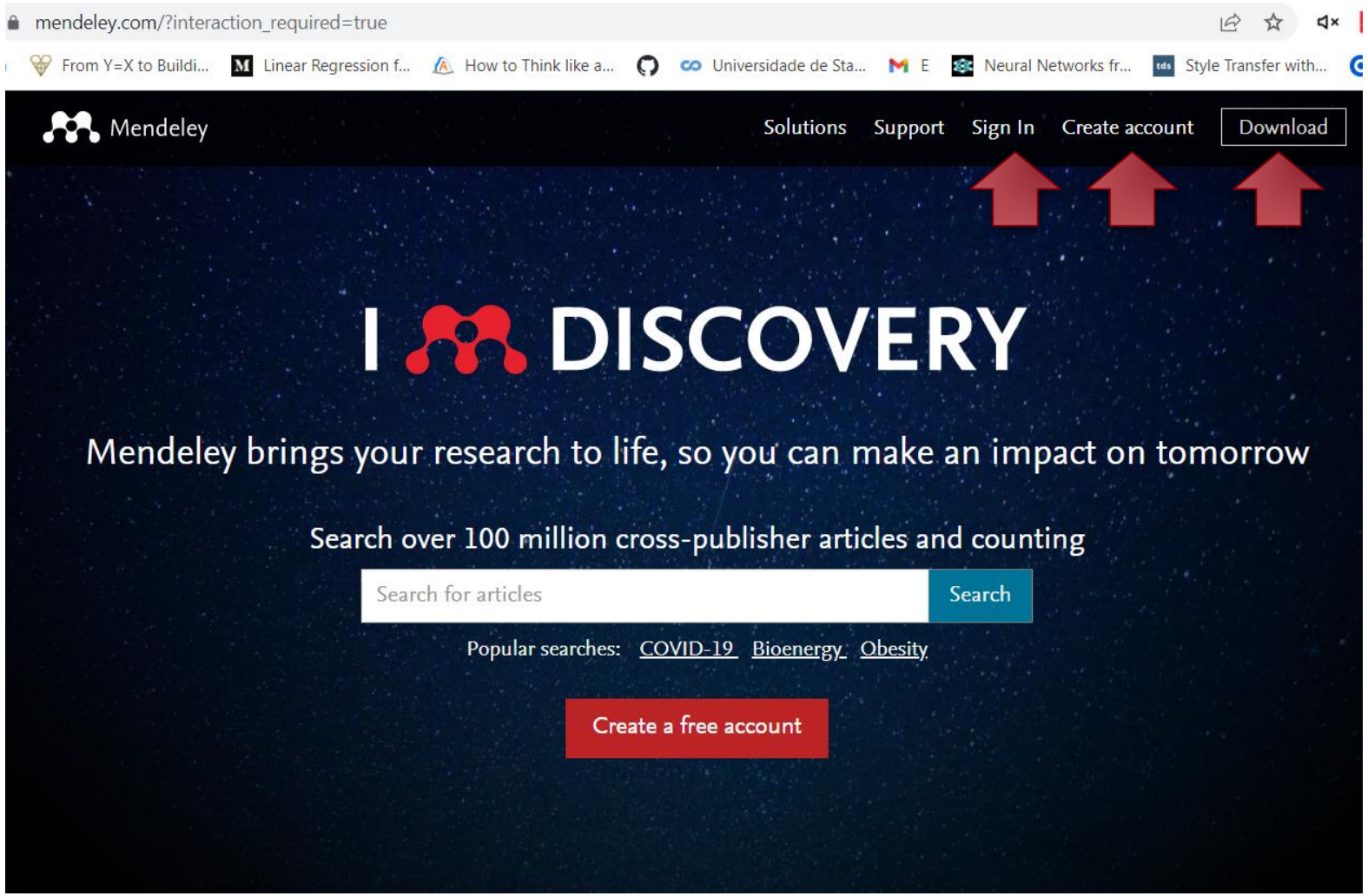
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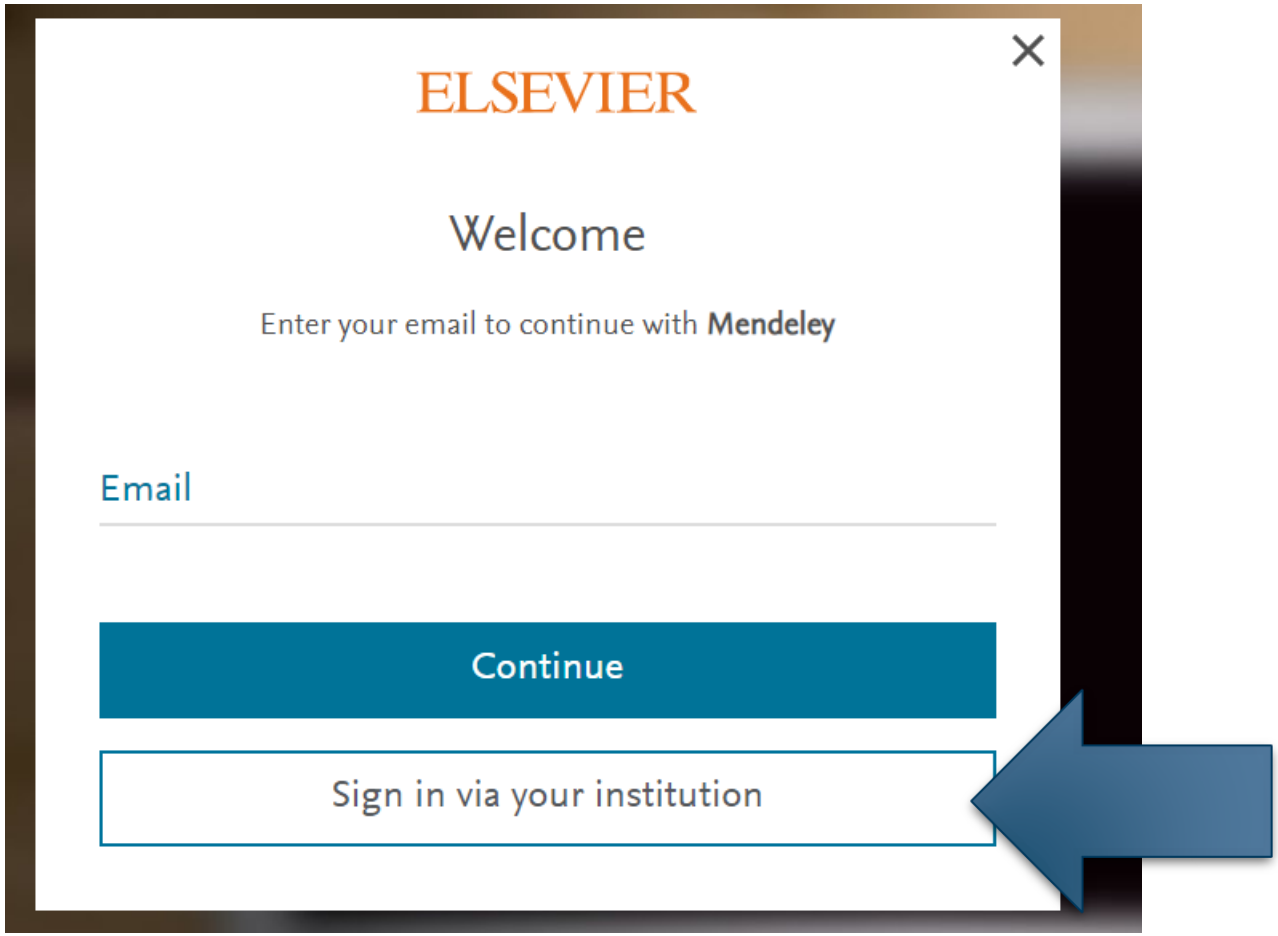
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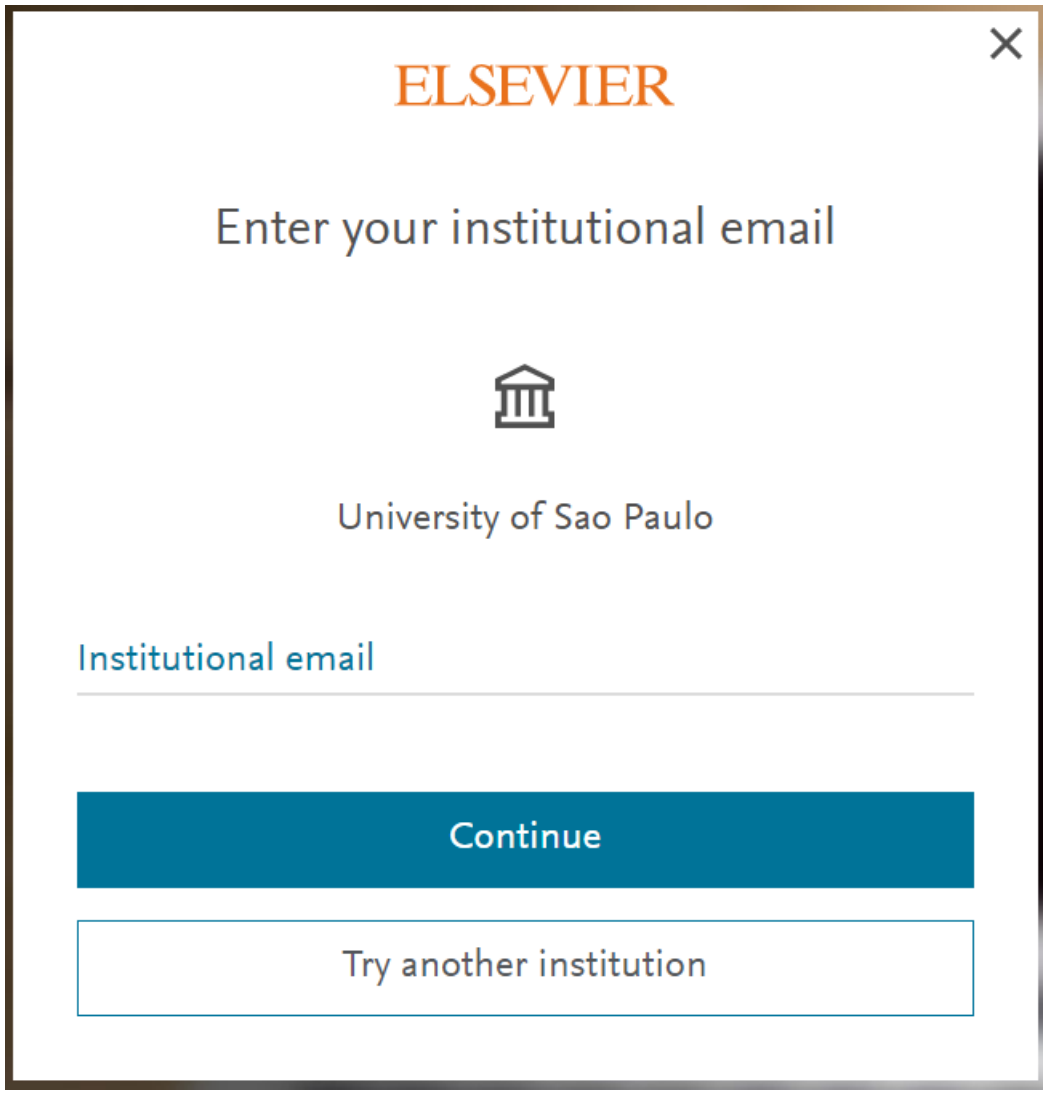
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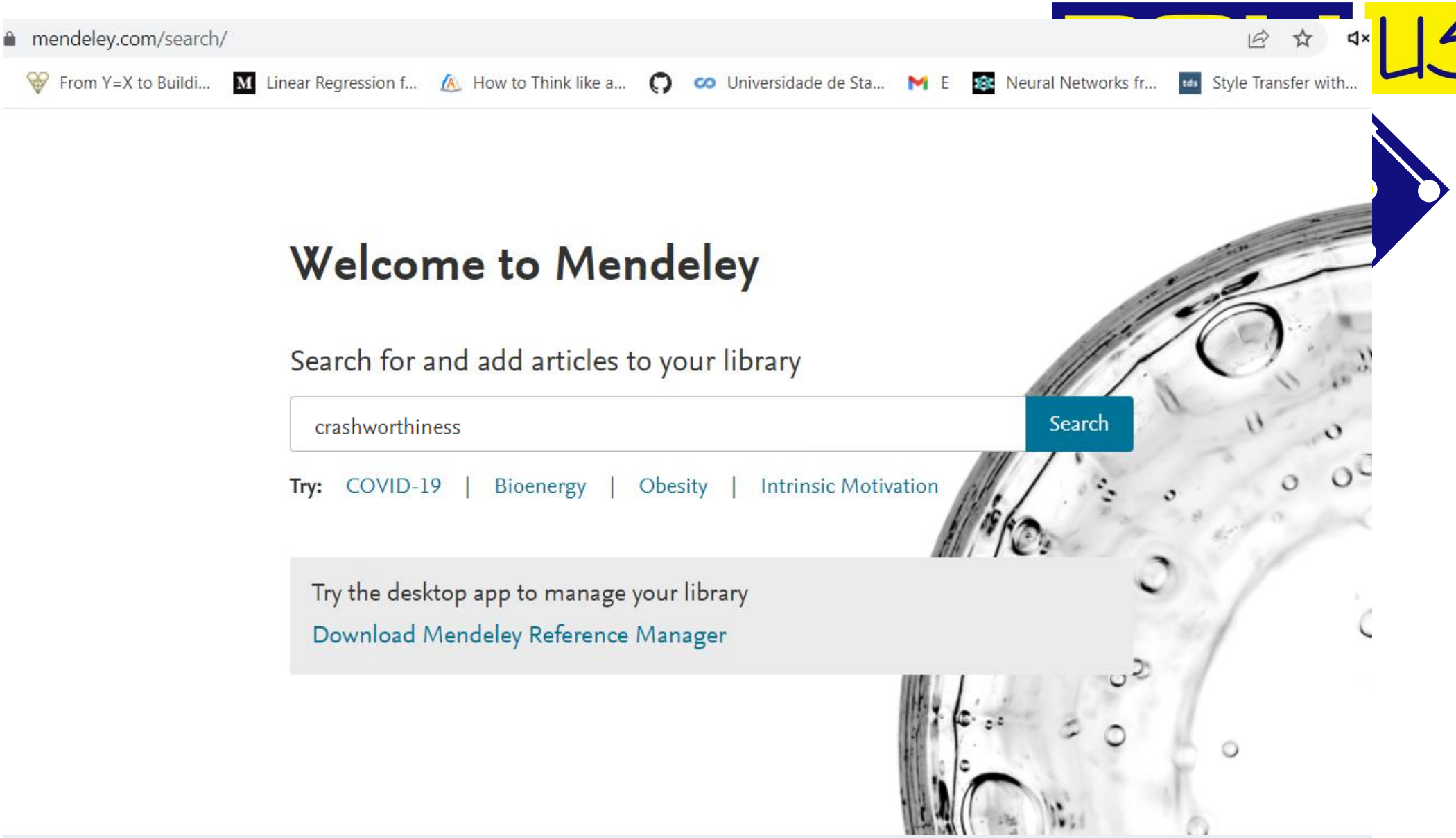
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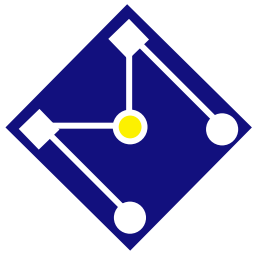

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- [ ] International Journal of Crashworthiness (37)
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Application of tailor rolled blanks in optimum design of pure electric vehicle crashworthiness and lightweight

Luxin Yu [a,b], Xianguang Gu [a,c,*], Lijun Qian [a], Ping Jiang [a], Wei Wang [a], Ming Yu [a]

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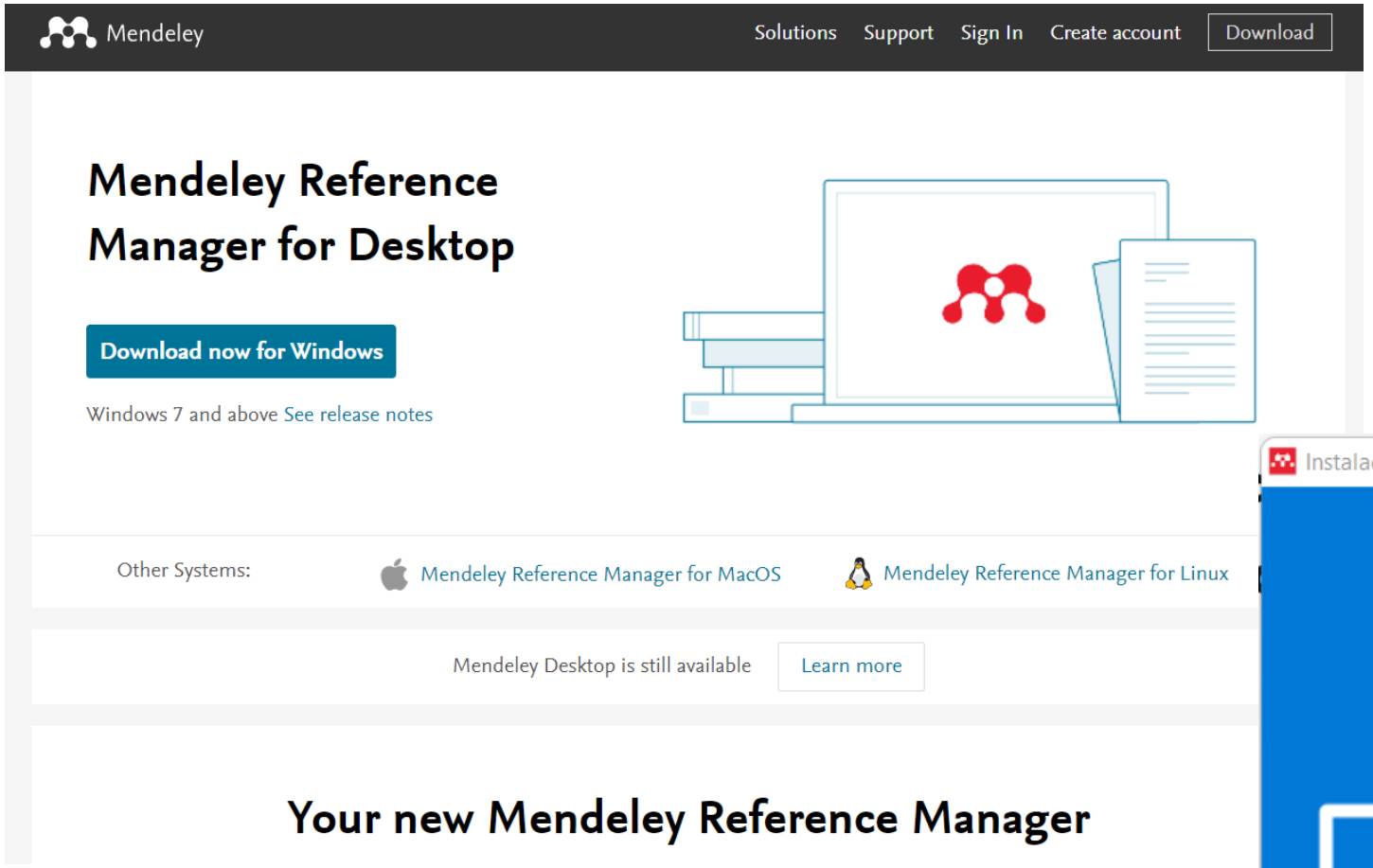
ARTICLE INFO

Keywords:
Tailor rolled blank (TRB)
Crashworthiness
Lightweight
Pure electric vehicle

ABSTRACT

At present, one of the promising solutions to the energy crisis and environmental protection is to widely use pure electric vehicles (PEV). It is noted that lack of range limits the wide use of PEV, in which lightweight can effectively improve the range of PEV. Lightweight and crashworthiness signify two main challenges facing in vehicle industry, which often conflict with each other. The tailor rolled blank (TRB) structure, as a novel configuration, has a great potential to achieve lightweight and improve the crashworthiness. In this study, a series of TRB structures are applied to the front-end components of PEV for the design optimization of vehicle crashworthiness and lightweight. A full-scale finite element (FE) model of PEV is first constructed and validated by physical test. Then the TRB FE models of vehicle front-end components are established to replace the cor-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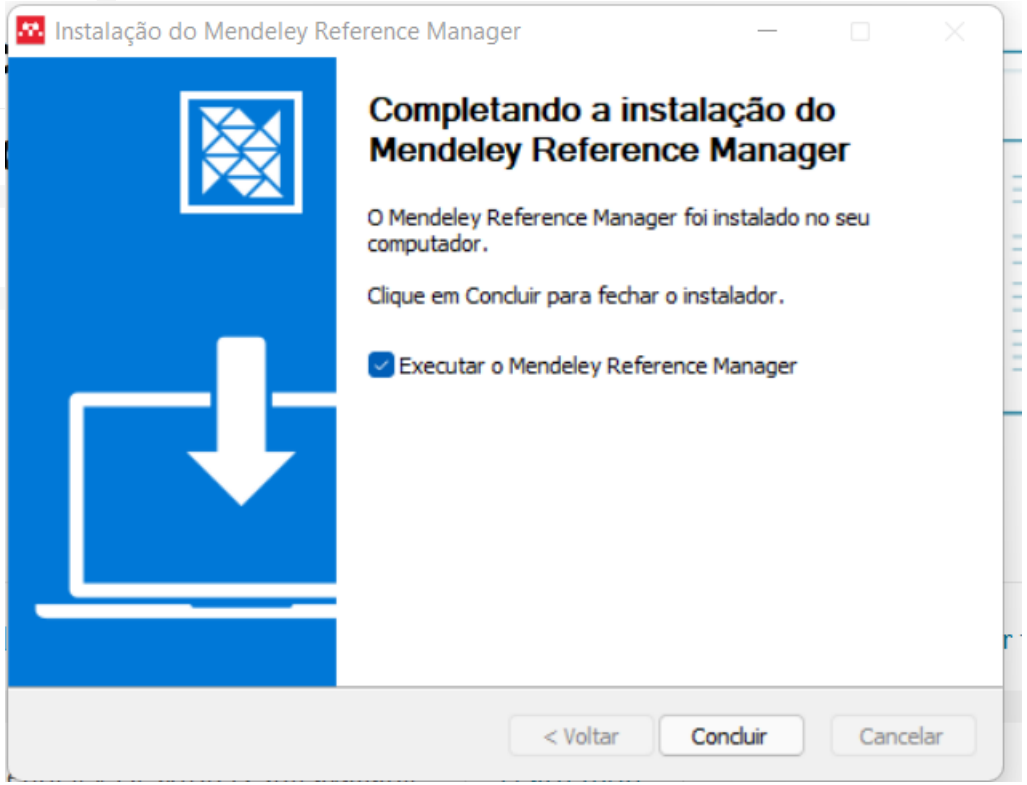
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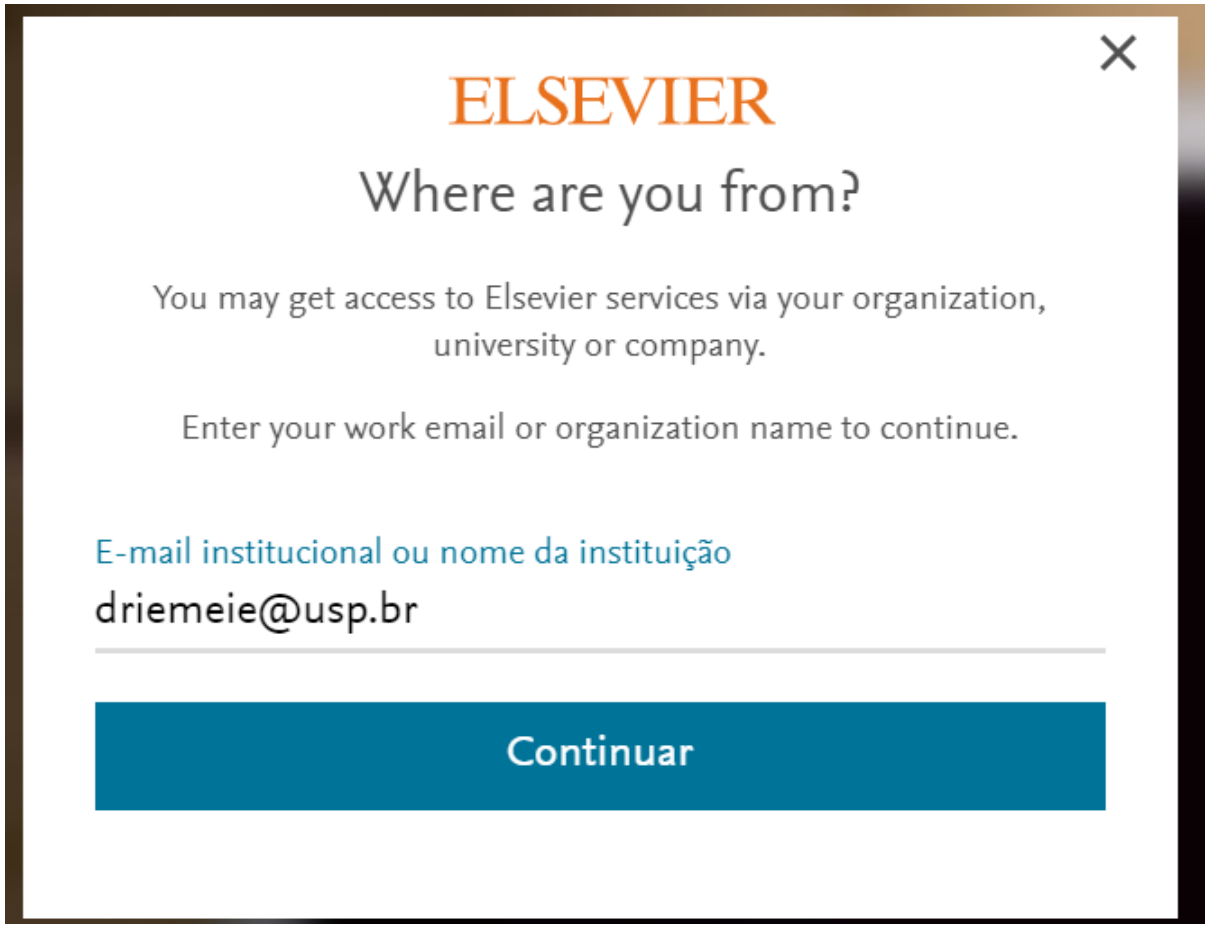
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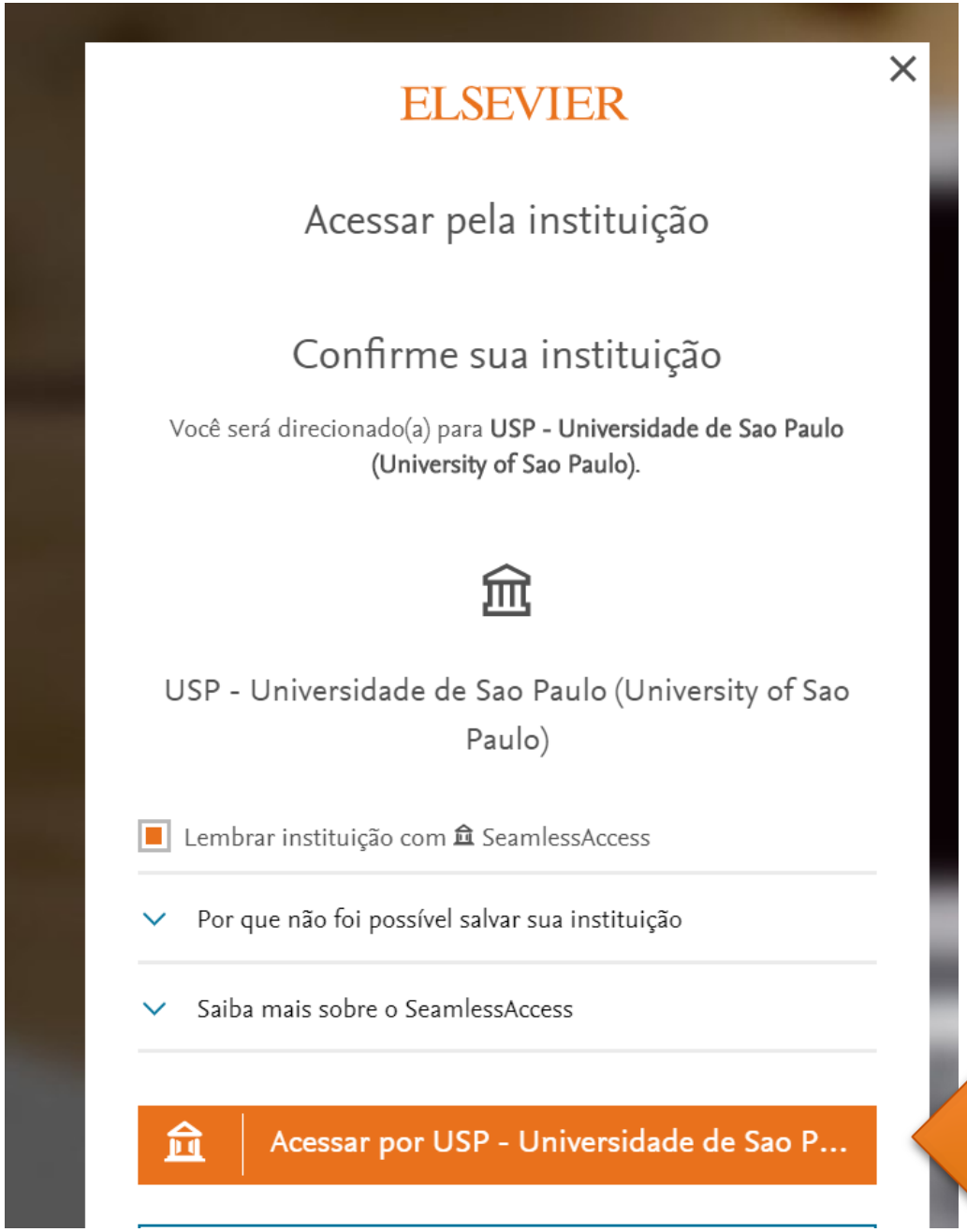
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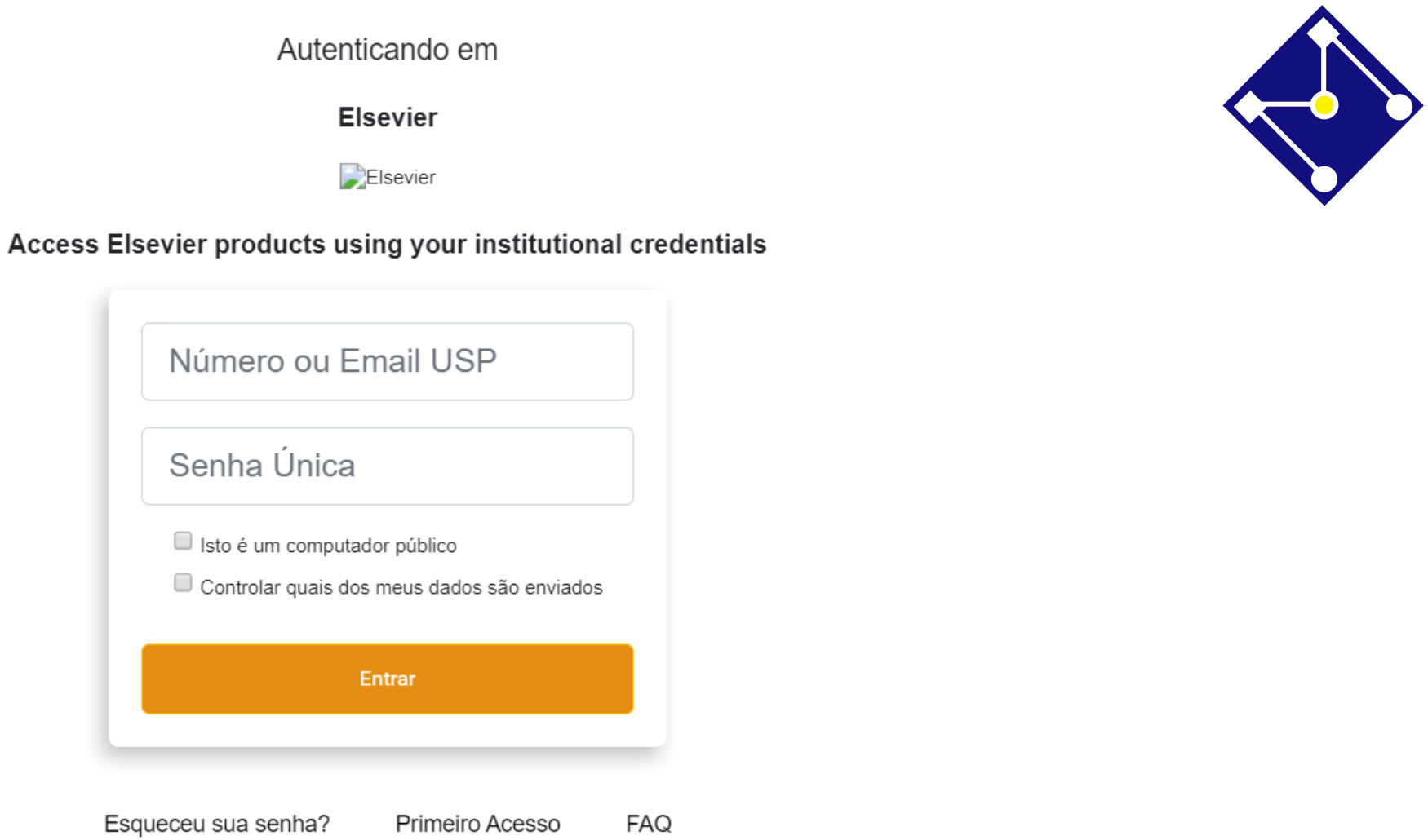
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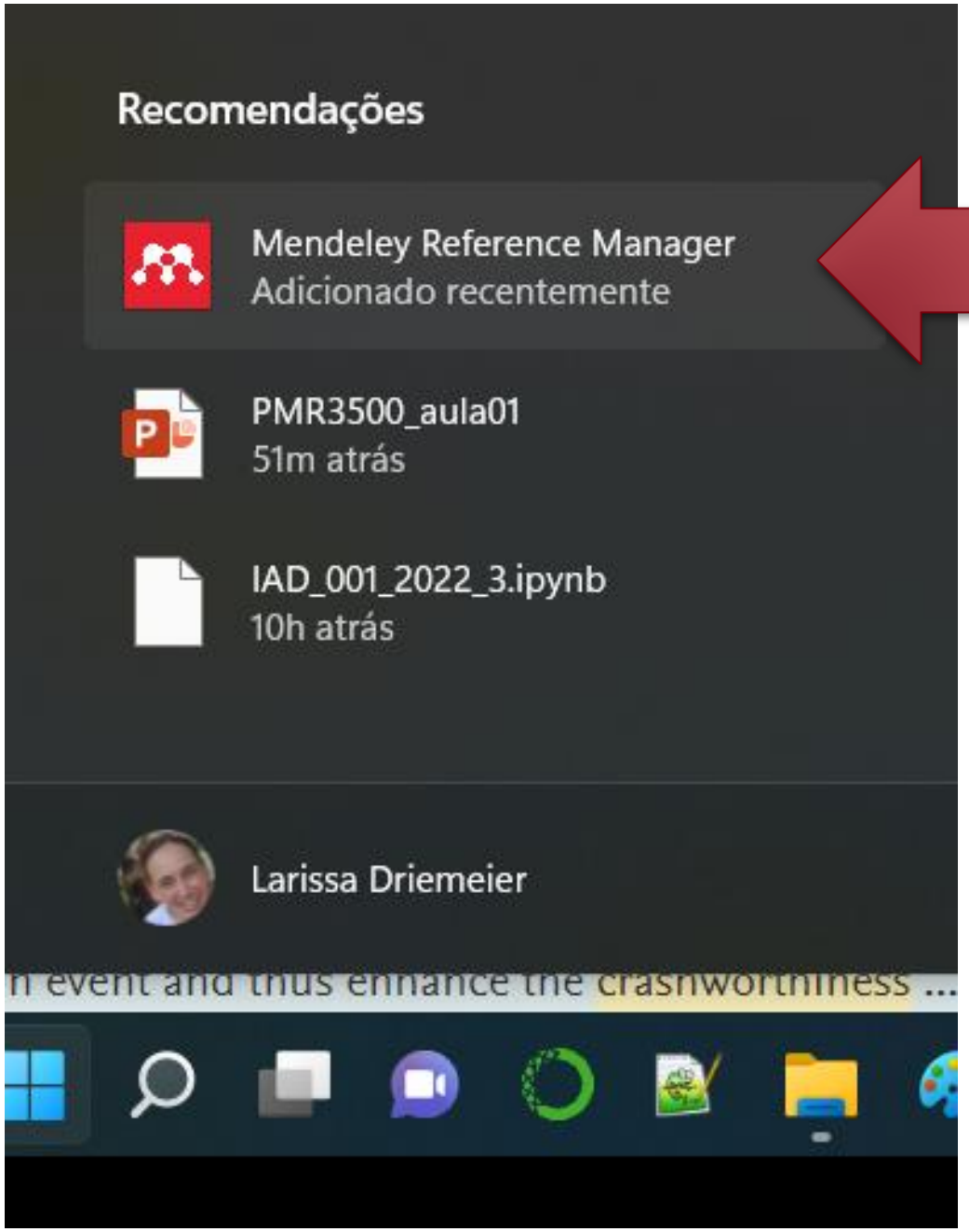
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Radzikowski K, Wang L, Yoshie O et al. See more

Eurasip Journal on Audio, Speech, and Music Processing, (2021), 2021(1)

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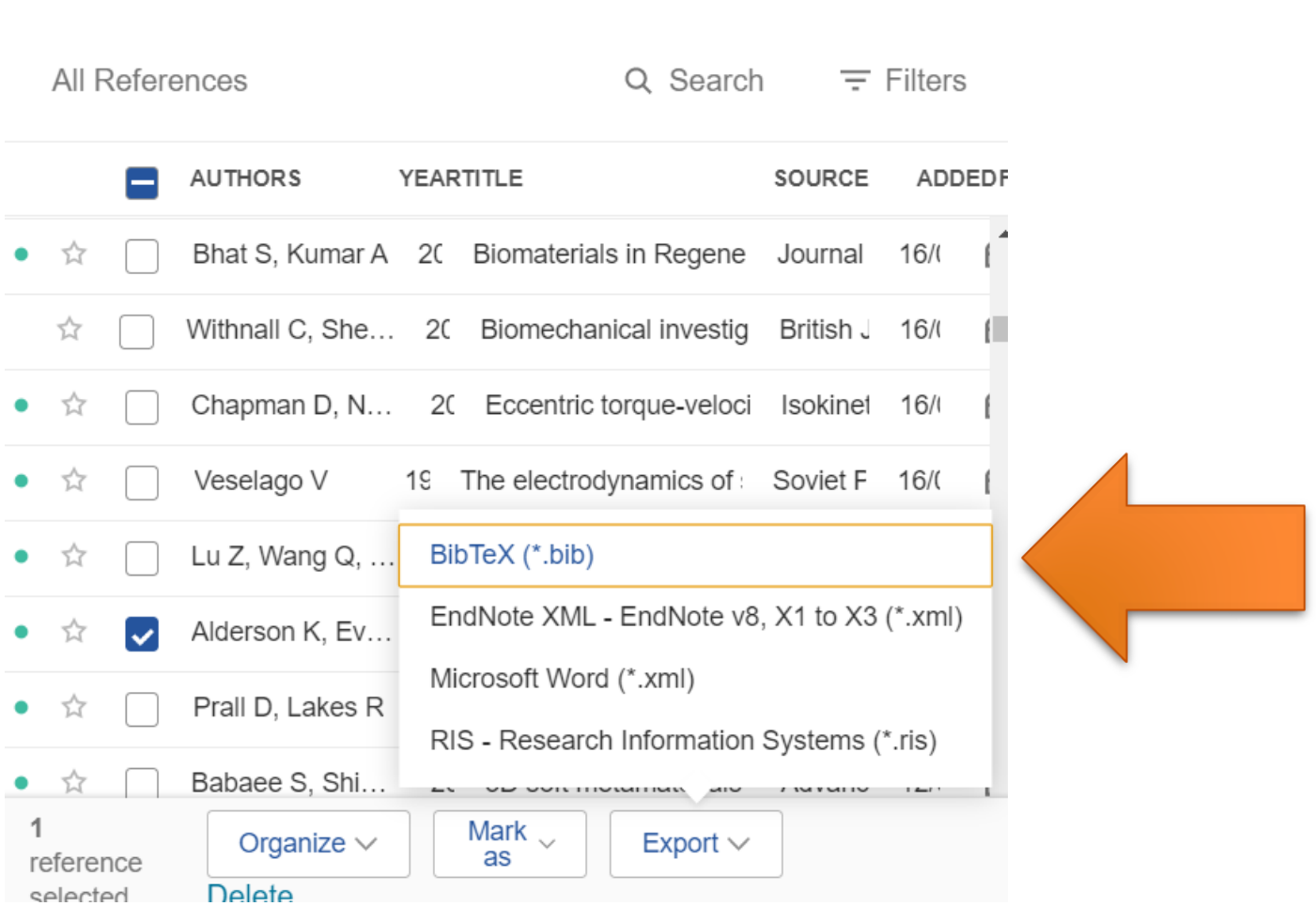
ABSTRACT

Nowadays automatic speech recognition (ASR) systems can achieve higher and higher accuracy rates depending on the methodology applied and datasets used. The rate decreases significantly when the ASR system is being used with a non-native speaker of the language to be recognized. The main reason for this is specific pronunciation and accent features related to the mother tongue of that speaker, which influence th pronunciation. At the same time, an extremely limited volume of labeled... Read more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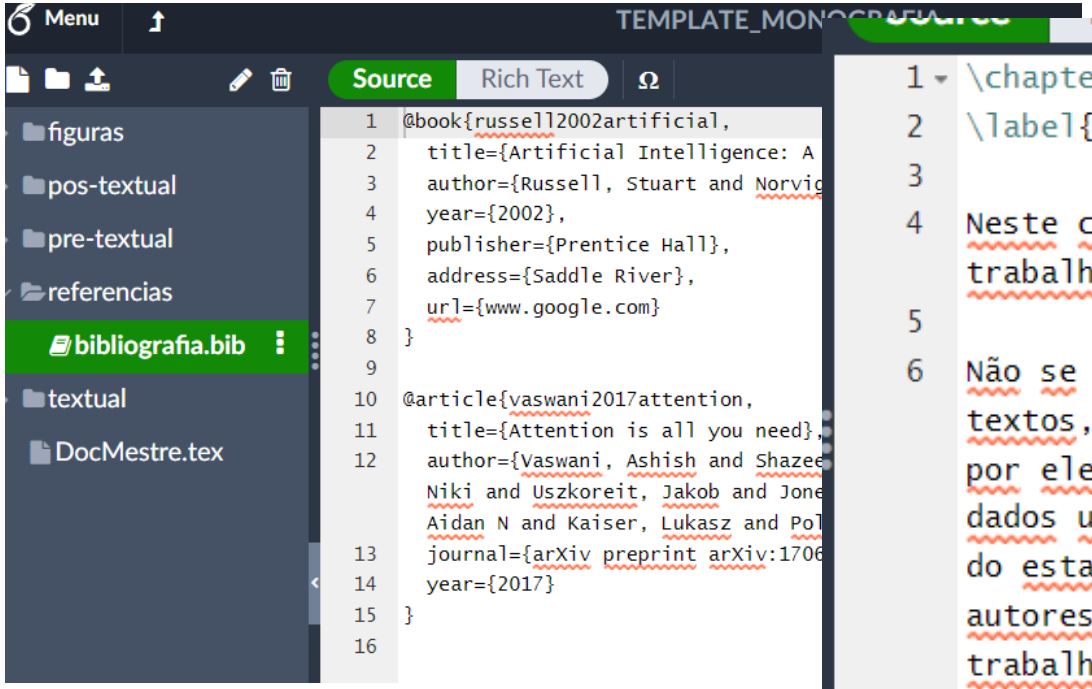
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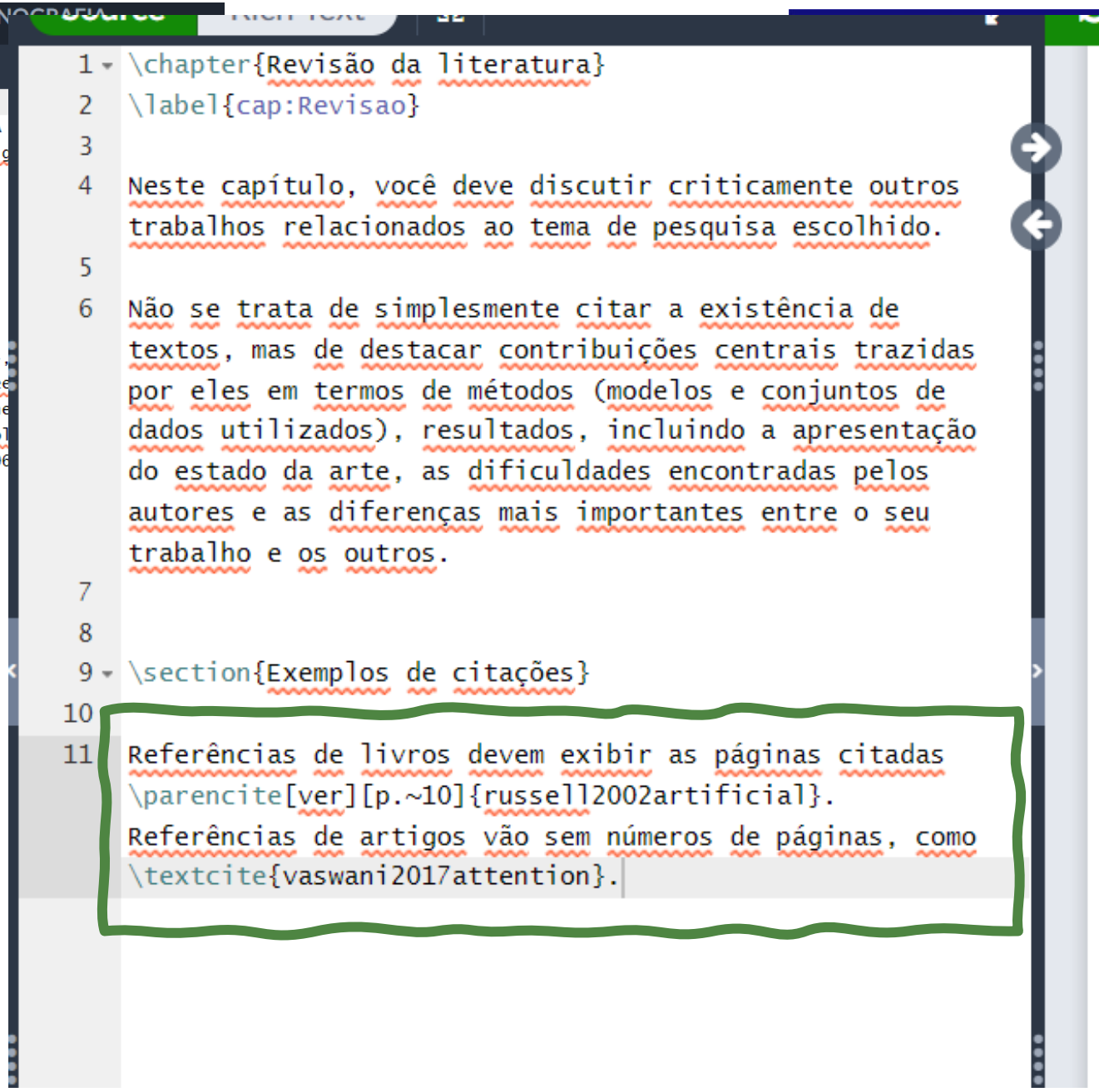
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2 \label{cap:Revisao}
3
4 Neste capítulo, você deve discutir criticamente outros trabalhos relacionados ao tema de pesquisa escolhido.
5
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Revisão da literatura

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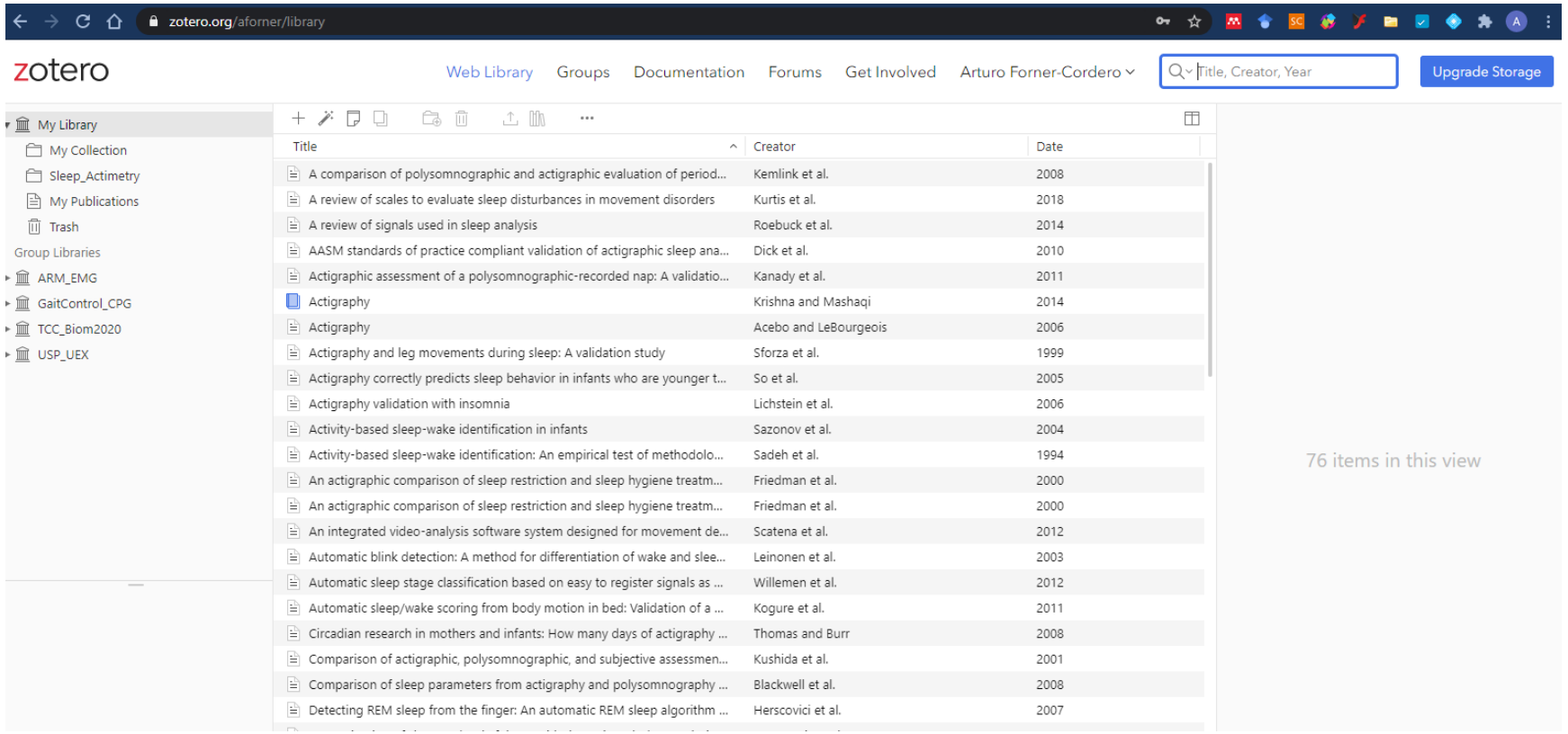
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Comparison of actigraphic, polysomnographic, and subjective assessmen... Kushida et al. 2001
Comparison of sleep parameters from actigraphy and polysomnography ... Blackwell et al. 2008
Detecting REM sleep from the finger: An automatic REM sleep algorithm ... Herscovici et al. 2007
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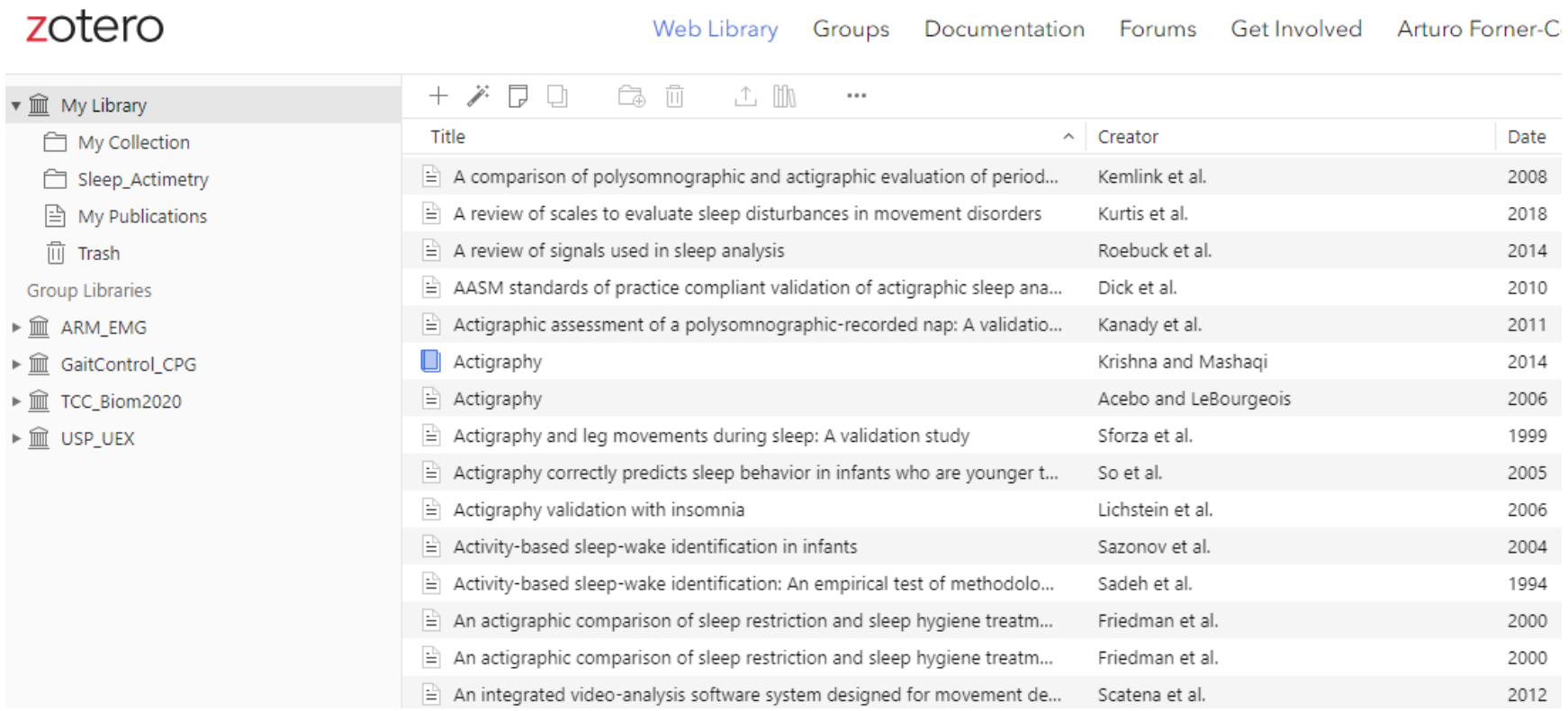
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A review of scales to evaluate sleep disturbances in movement disorders Kurtis et al. 2018
A review of signals used in sleep analysis Roebuck et al. 2014
AASM standards of practice compliant validation of actigraphic sleep ana... Dick et al. 2010
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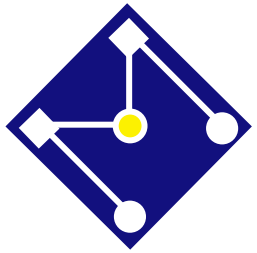
Actigraphy Krishna and Mashaqi 2014
Actigraphy Acebo and LeBourgeois 2006
Actigraphy and leg movements during sleep: A validation study Sforza et al. 1999
Actigraphy correctly predicts sleep behavior in infants who are younger t... So et al. 2005
Actigraphy validation with insomnia Lichstein et al. 2006
Activity-based sleep-wake identification in infants Sazonov et al. 2004
Activity-based sleep-wake identification: An empirical test of methodolo... Sadeh et al. 1994
An actigraphic comparison of sleep restriction and sleep hygiene treatm... Friedman et al. 2000
An actigraphic comparison of sleep restriction and sleep hygiene treatm... Friedman et al. 2000
An integrated video-analysis software system designed for movement de... Scatena et al. 2012

COMO FAZER A REVISÃO?

COMO FAZER UMA REVISÃO BIBLIOGRÁFICA?



1. Formular uma pergunta a partir do problema.

2. Localizar as repostas na literatura científica e nas bases de dados de patentes. Sempre documentar a busca e a avaliação.

3. Avaliar criticamente os resultados dos artigos.

4. Aplicar as conclusões da avaliação no projeto.

FORMULAR UMA PERGUNTA A PARTIR DO PROBLEMA

- Formular os problemas do projeto e identificar as necessidades de informação
- Propor uma ou várias perguntas simples e claras

Com perguntas claras podemos definir:

PALAVRAS-CHAVE

p.e. “existem exoesqueletos robóticos de membro inferior de baixo custo?”

“robotic”, “exoeskeleton”, “lower limb”, “low cost”

LOCALIZAR AS RESPOSTAS NA LITERATURA CIENTÍFICA E NAS BASES DE DADOS DE PATENTES

Estratégias de busca:

- Buscar “palavras-chave” (*keywords*)
- Buscar “autores relevantes”

Caso apareça, muitos artigos, refinar a busca :

- Limitar os anos (p.e. as mais recentes)
- Incluir outra palavra-chave

Identificar os artigos de “Review”

- Se o review é recente você deve dar bastante atenção
  - Ler os abstracts dos reviews (ver se é o tema correto)

LOCALIZAR AS REPOSTAS NA LITERATURA CIENTÍFICA E NAS BASES DE DADOS DE PATENTES

Busca em bases de dados bibliográficas disponíveis na Internet:

- **Pubmed**: PubMed (nih.gov)
  https://pubmed.ncbi.nlm.nih.gov/
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  https://scholar.google.com/
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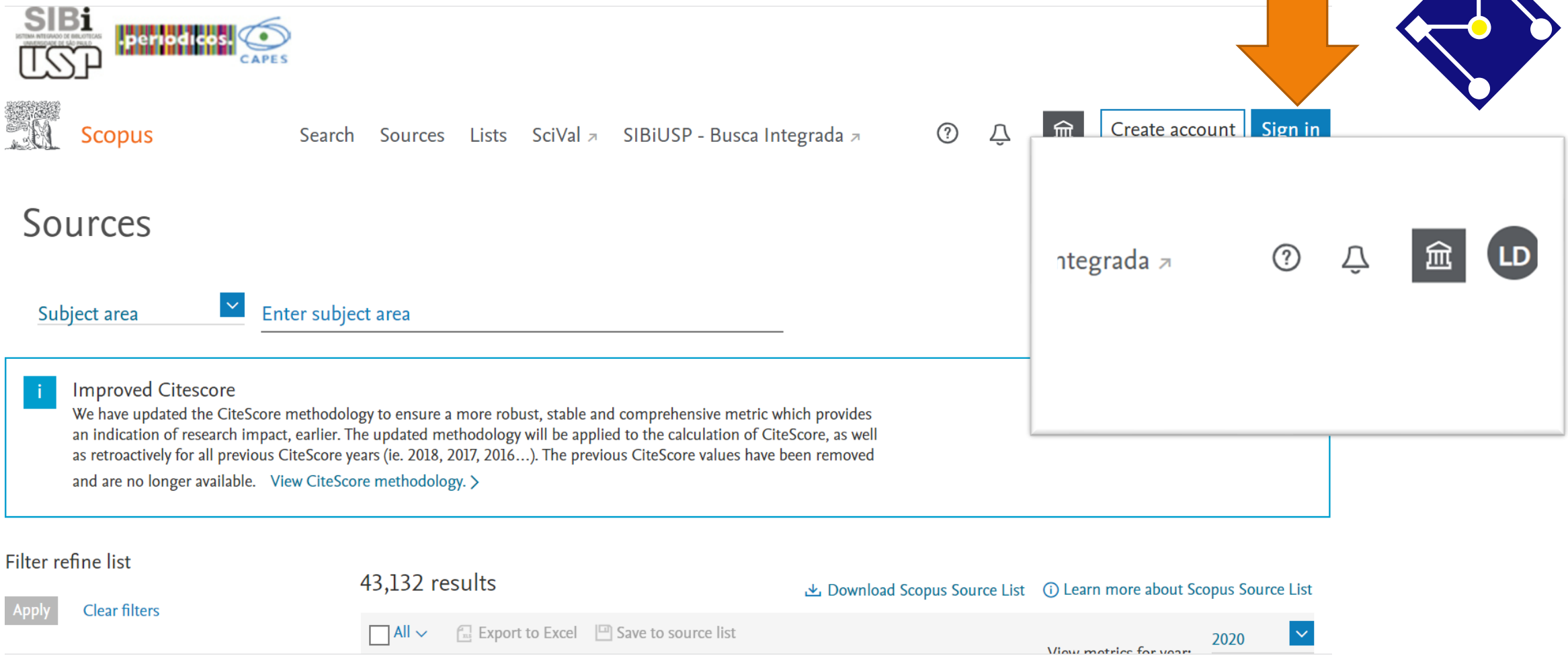
- Web of Science: Document search - Web of Science Core Collection
  https://www.webofscience.com/wos/woscc/basic-search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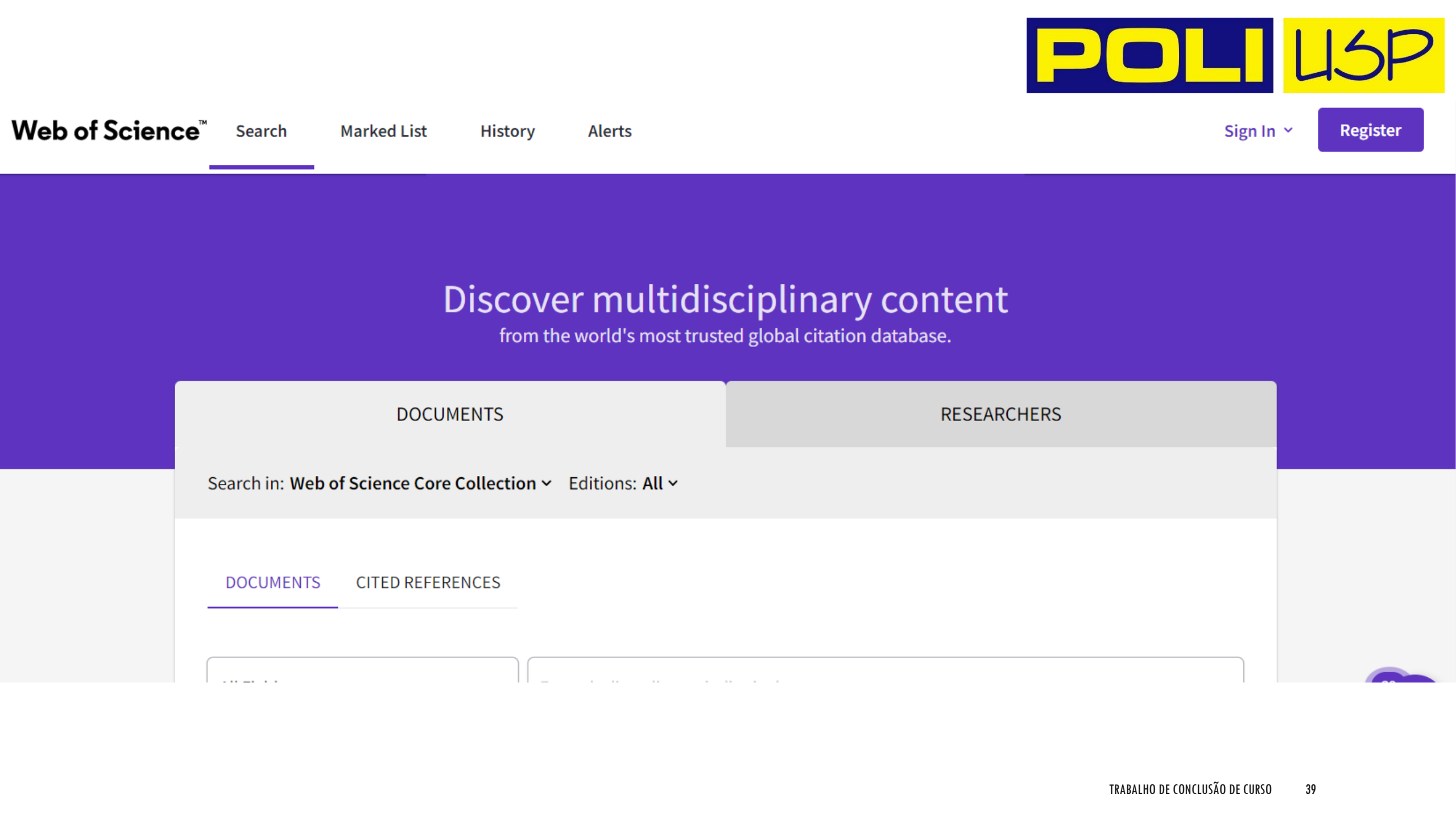
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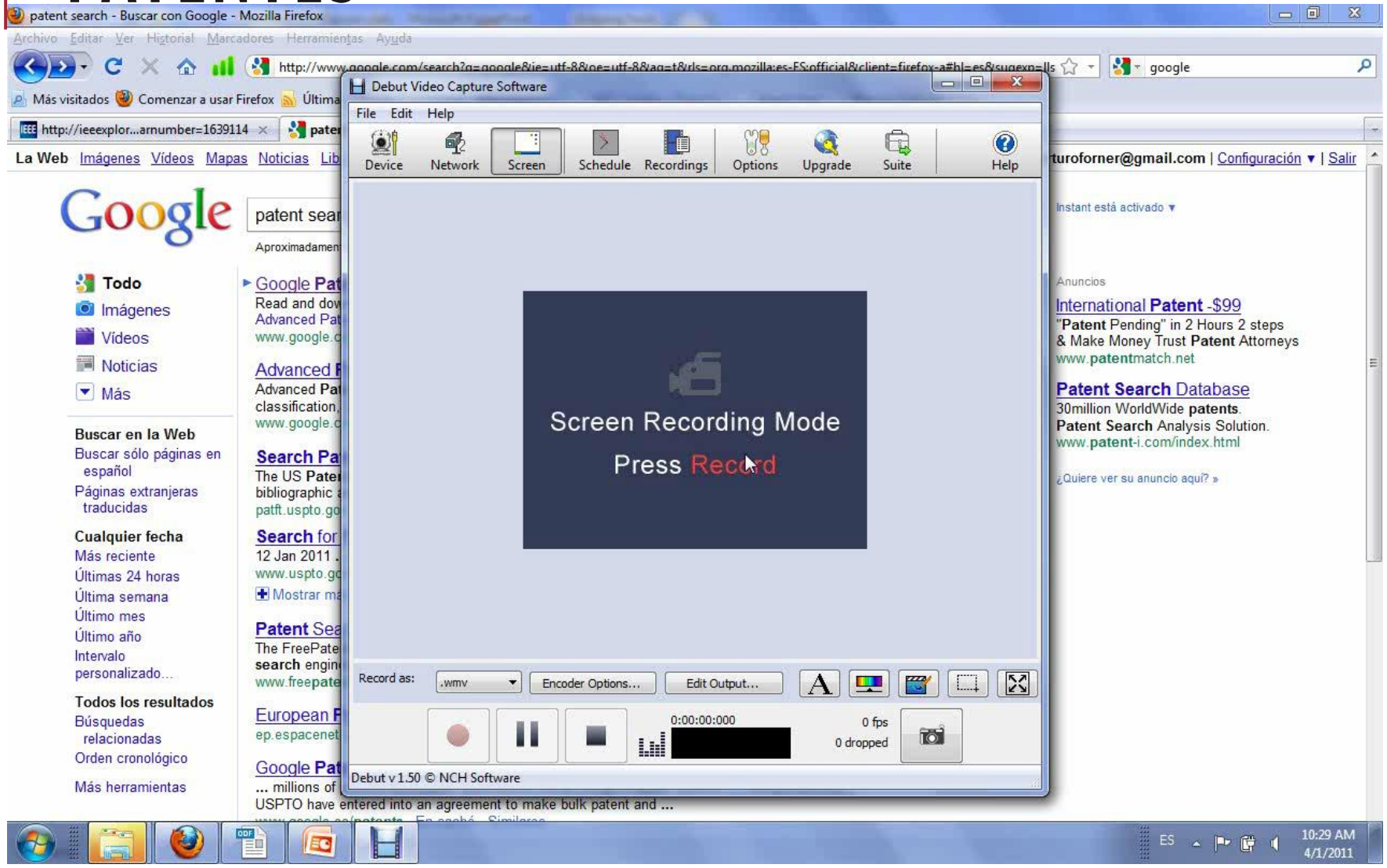
PATENTES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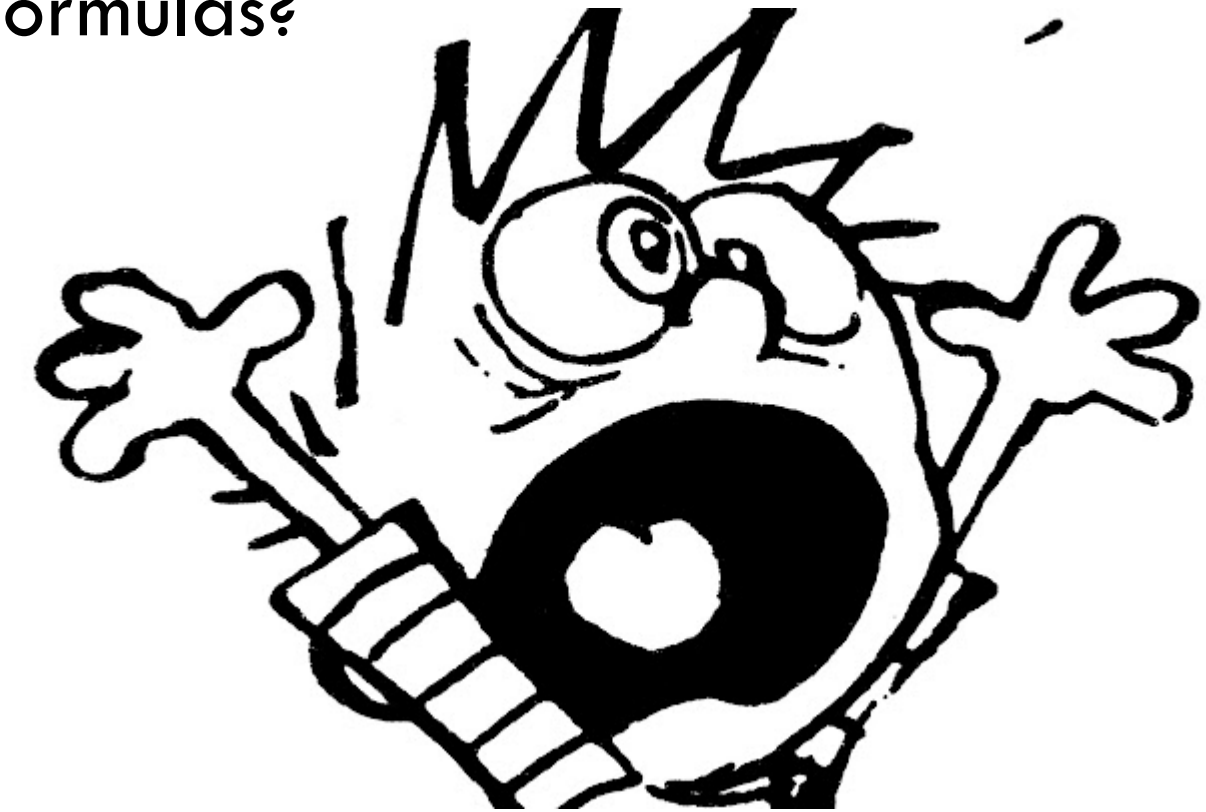
COMO LER UM ARTIGO???

Deve ler todos os artigos, do começo ao fim e deduzir todas as fórmulas?



Abstract:	• short summary that concisely reports the aims, methods, results and conclusions.
Introduction:	• Formulation of the problem and literature review and goal of the paper
Material and Methods:	• Experiments, algorithms and data processing
Results:	• Present the results from experiments
Discussion:	• Discuss the obtained results
Conclusions:	• Reinforce most prominent ideas from the Discussion

COMO LER UM ARTIGO?

Ler o abstract

Se conhece bem o tema:

- Ir a objetivos (fim da Introdução)
- Ler conclusões (fim da Discussão)
- É interessante? Verifique Materials and Methods.
- É bom? Leia o artigo todo.
- É ruim? Reciclável.

Se não conhece bem o tema:

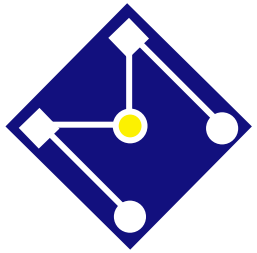
- Ler a Introdução
- Identificar o objetivo do artigo
- Ler a Discussão, Métodos
- Ler TUDO (Aval do orientador nos primeiros artigos é interessante...)

Bioinspired mechanical design of an upper limb exoskeleton for rehabilitation and motor control assessment

Robotic rehabilitation is a field that experienced a rapid expansion in the last decades due to two main reasons. First, due to the growth of population with rehabilitation needs such as stroke survivors, and two, due to the technological advances allowing the implementation of robotic devices in the clinical practice. These robotic rehabilitation devices can be broadly classified in two groups: the end-effector robots and the exoskeletons. Regarding the latter, it is important to note that the coupling with the human body demands a high safety factor. If the exoskeleton tries to impose kinematic or dynamic configurations that are not compatible with the human body, it may cause injury to the user. This issue is more critical in motor rehabilitation as the patients could show muscle weakness. In this context, this manuscript presents a bioinspired upper limb robotic exoskeleton, aiming to optimize the dynamic compatibility with the human arm. With this approach, it is expected that safety is intrinsic to the exoskeleton mechanism.

This paper appears in: Biomedical Robotics and Biomechatronics (BioRob), 2012 4th IEEE RAS & EMBS International Conference on, Issue Date: 24-27 June 2012, Written by: Miranda, A.B.W.;

IDENTIFICAR ARTIGOS MAIS RELEVANTES E MAIS CITADOS



Trabalhos recentes

Conclusões relevantes e fundamentadas

Jornais ou congressos prestigiosos na área

Autor(es) reconhecido(s)

Artigos recentes de review

AVALIAR CRITICAMENTE OS ARTIGOS

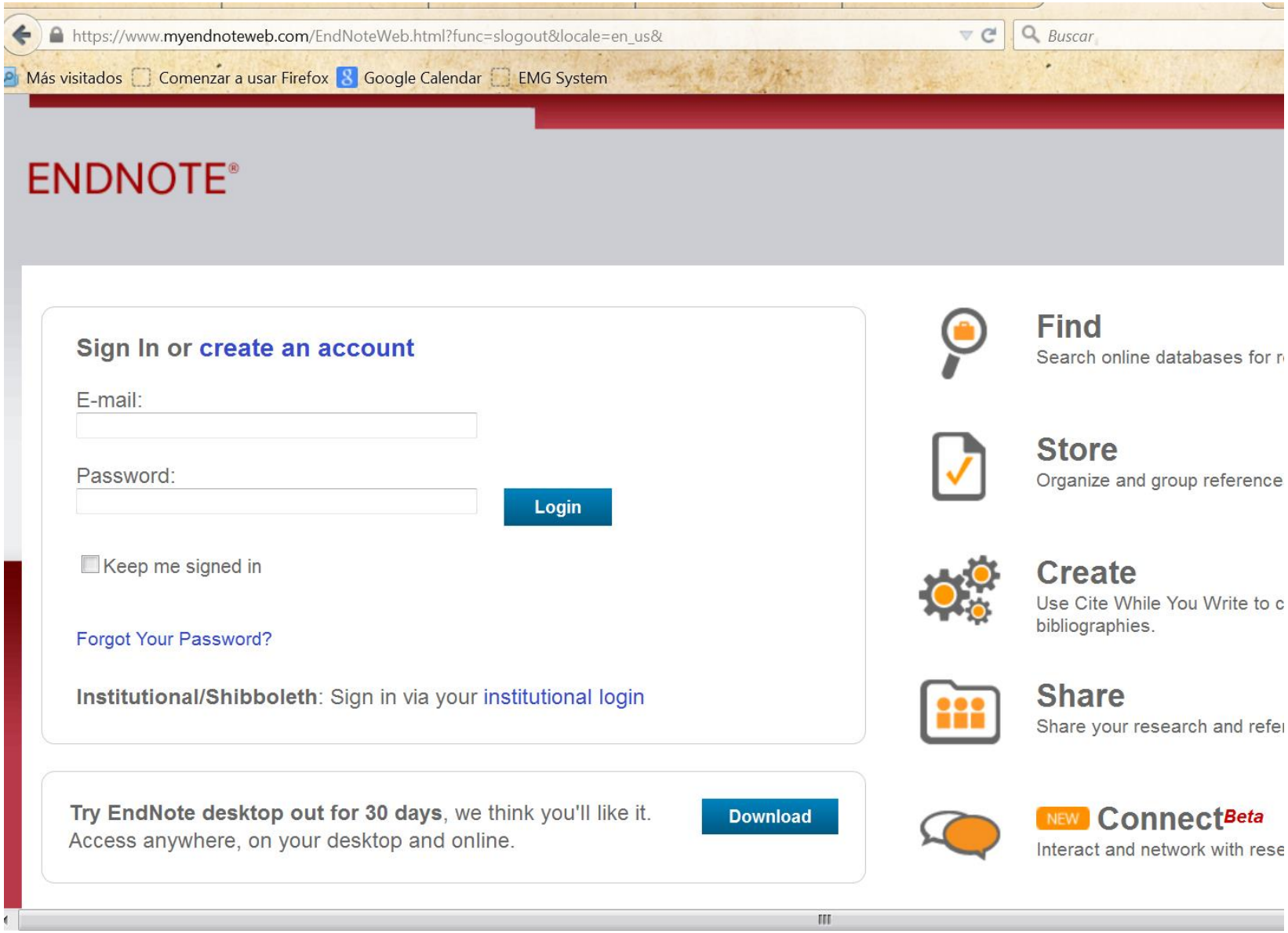
Existem poucos artigos relevantes com metodologia rigorosa. Os principais problemas são:

- É apresentado um dispositivo ou um algoritmo validado em condições muito particulares
- A análise estatística não é correta
- A descrição do experimento ou do algoritmo não permite replicá-lo.

DATABASE

Criar uma base de dados dos artigos:

- Saber onde fica o artigo
- Gerar automaticamente as referências:
  - LATEX: BibTex
  - WORD: EndNote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Estou escrevendo uma revisão bibliográfica e quero inserir uma referencia

TRANSFORMAR O CONHECIMENTO ADQUIRIDO NA SUA REVISÃO DO ESTADO DA ARTE

APLICAÇÃO DAS CONCLUSÕES DA AVALIAÇÃO PARA A PRÁTICA

Ao final do seu estudo...

É possível transportar o conhecimento adquirido para o desenvolvimento de seus objetivos?

Quais as perguntas que você queria responder? Foi respondida?

O que foi aprendido?

TENHA SENSO CRÍTICO

- Faça uma revisão dissertativa, passando por todos os trabalhos que considerar relevantes, apontando especificidades, méritos e limitações.

O que deu certo e o que não funciona.

E porquê! Você concorda?!?!

QUALIDADE OU QUANTIDADE: EQUILÍBRIO

Qualidade

Bons resultados (média de acertos de 95,5%) foram obtidos por Yang(8), porém apenas para sinais estáticos (letras). O trabalho utiliza visão computacional para reconhecimento de 30 letras da língua chinesa de sinais a partir de vídeos de mãos apenas. As informações extraídas dos vídeos são: a diferença de frames para detectar regiões em movimento, detecção de pele e cinco descritores visuais e geométricos. O reconhecimento da letra é feito através de Support Vector Machine, aprendizado supervisionado.

Silva, B.V.L.; Koroishi, G.O. *Reconhecimento de sinais da libras por visão computacional*, Trabalho de conclusão do curso de graduação em Engenharia Mecatrônica, Escola Politécnica, USP, 2014.

Quantidade

These aforementioned advantages of auxetic metamaterials make them potential candidates for applications that include but not limited to prostheses [35], auxetic textiles [36–41], smart sensors [42–44], indentation and fatigue resistance [45–48], smart filters [28, 49], magnetic auxetic system [50, 51], molecular sieves [52], seat cushions [53], superior vibration dampers [54] and acoustic isolators [55].

Xin, R. *et al* Auxetic metamaterials and structures: a review, *Smart Mater. Struct.* **27** 023001, 2018.

REFERÊNCIAS ANTIGAS

Errado

Recentemente, os autores Silva e Pereira (**2010**) propuseram um modelo de (...)

Pode funcionar

*Inteligência artificial (Ia), em **1950**, foi descrita por Minsky e por John McCarthy, como qualquer tarefa feita por um programa ou máquina que, se um ser humano fizesse a mesma atividade, diríamos que teve que usar a inteligência para cumprí-la.*

REFERÊNCIAS ATUAIS

Regrinha empírica:

Dê preferência às referências de 2018 em diante!

SOBRE AS REFERÊNCIAS

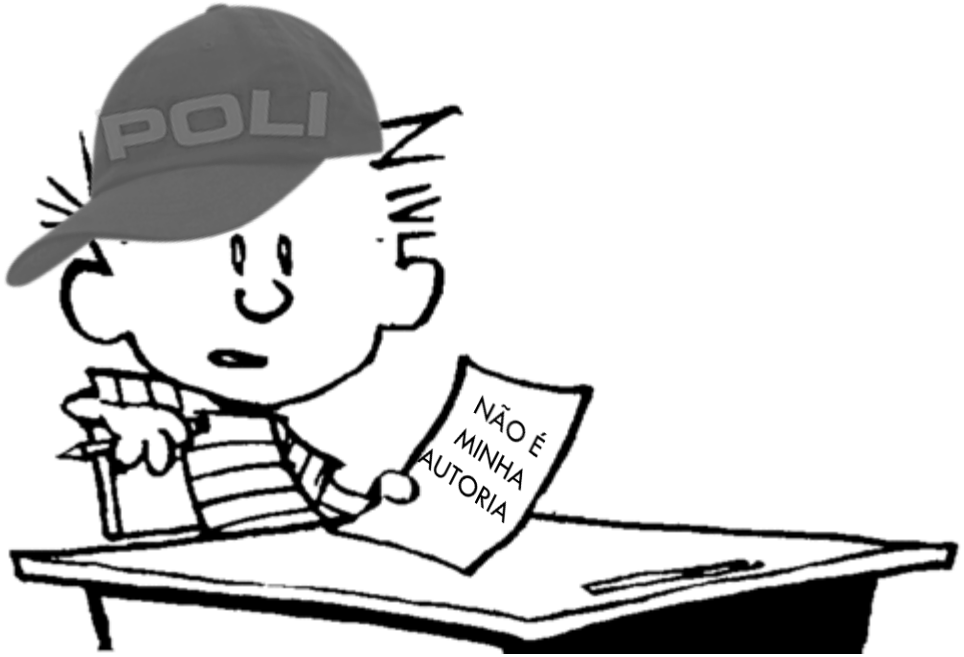
- Referências citadas devem ser relevantes ao seu trabalho;
- Referências devem ser de autores com **credibilidade** (seu orientador pode ajudá-lo nisso);
- Referências devem ser acessíveis;
- Referências substituem páginas e páginas de teoria cujo assunto já tenha sido sedimentado ou saturado.

Ninguém vai estudar sistemas multifísicos, redes neurais, controle... pela sua tese...

POR FIM... DÊ CRÉDITO AOS AUTORES

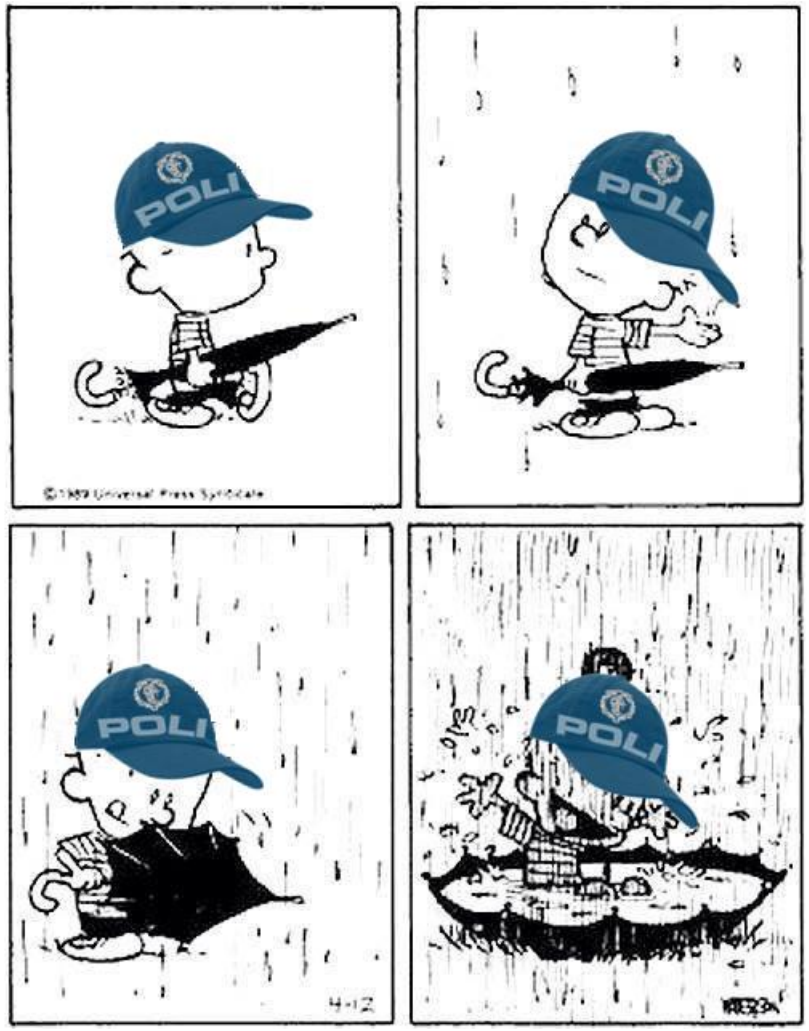
Seja justo com aqueles que foram pioneiros no tabalho que você está executando.

Não é objetivo do TCC trazer alguma contribuição científica ao mundo. Isso é doutorado.



Portanto, não se preocupe em utilizar e citar em sua revisão a ideia, o software, a figura, a explicação, o conselho... que você utilizou e que tornou seu trabalho mais simples.

BORA TRABALHAR NA MONOGRAFIA



AND HAVE FUN!