

LREC 2018
MIYAZAKI

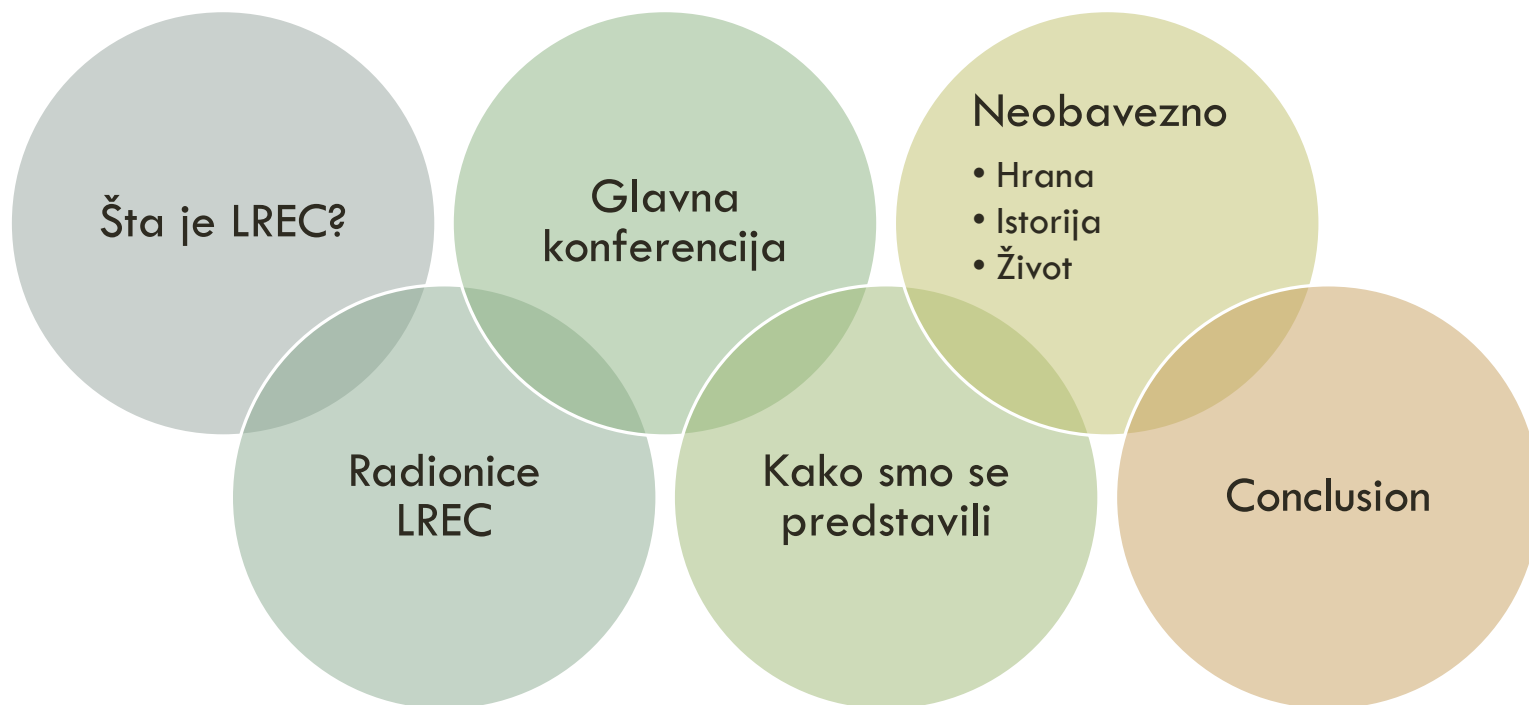


Ranka Stanković ranka@rgf.rs

University of Belgrade
JERTEH Language Resources and Technologies Society

11th edition of the Language Resources and Evaluation Conference, 7-12 May 2018, Miyazaki (Japan)

UKRATKO



LREC [HTTP://WWW.LREC-CONF.ORG/](http://www.lrec-conf.org/)

Dvogodišnja konferencija na kojoj smo prisutni već 14 godina:

LREC 1998 Granada (Spain)

LREC 2000 Athens (Greece)

LREC 2002 Las Palmas (Spain)

✓ **LREC 2004 Lisbon** (Portugal)

✓ **LREC 2006 Genoa** (Italy)

✓ **LREC 2008 Marrakech** (Morocco)

✓ **LREC 2010 Valletta** (Malta)

✓ **LREC 2012 Istanbul** (Turkey)

LREC 2014 Reykjavik (Iceland)

✓ **LREC 2016 Portorož** (Slovenia)

✓ **LREC 2018 Miyazaki** (Japan)

..... LREC 2020 ?

RADIONICE – SVI ZBORNICI DOSTUPNI

<http://lrec2018.lrec-conf.org/en/workshops-and-tutorials/lrec-2018-workshops-online-proceedings/>

		Tengyoku	Tenyo	Tenju	Tenran	Amber	Ivory	Marble	Crystal	Orchard N
7 May	am	O-COCOSDA Conference	W29 - 13th Workshop on Asian Language Resources (AsianLang2018)	W2 - ParlaCLARIN	W17 - 6th Workshop on Challenges in the Management of Large Corpora Special Topic: Interoperability of corpus query & analysis systems (CMLC-6)	W24 - 7th International Workshop on Mining Scientific Publications (WOSP 2018)	W12 - Games & Gamification for Natural Language Processing (Games4NLP)	W7 - Annotation, Recognition & Evaluation of Actions (AREA)	T4 - Distributional compositional semantics in the age of word embeddings: tasks, resources & methodology	-
	pm				W27 - 1st Financial Narrative Processing Workshop (FNP 2018)		W14 - Improving Social Inclusion using NLP: Tools, Methods & Resources (ISINLP2)	W20 - LB-ILR2018 Joint Workshop	T3 - Annotation Tool Development on LDC's Web Platform	T1 - What Every Computational Linguist Should Know About Type-Token Distributions & Zipf's Law
8 May	am	O-COCOSDA Conference	W34 - Belt & Road Language Resources & Evaluation (B&R LRE)	W8 - 11th Workshop on Building & Using Comparable Corpora Special Topic: Comparable Corpora for Asian Languages (BUCC2018)	W33 - GLOBALEX 2018 – Lexicography & WordNets	W6 - 1st Workshop on Computational Impact Detection from Text Data (CIDTD2018)	-	W30 - 3rd Workshop on Open-Source Arabic Corpora & Processing Tools : with ArabicWeb16 Data Challenge (OSACT2018)	W9 - Linguistic & Neuro-Cognitive Resources (LiNCR)	T5 - NLP for Journalism
	pm					W3 - MultilingualBIO: Multilingual Biomedical Text Processing	W21 - Legal Issues & Ethics (ETHICAL 2018 - LEGAL 2018)		W31 - Resources & Processing of linguistic, para-linguistic & extra-linguistic Data from people with various forms of cognitive / psychiatric impairments (RaPID-2)	T8 - Creating, Managing & Analysing Speech Databases using BAS Services & EMU: A Hands-On Tutorial
12 May	am	W1 - 8th Workshop on the Representation & Processing of Sign Languages: Involving the Language Community (SignLang2018)	W26 - Collaboration & Computing for Under-Resourced Languages Sustaining knowledge diversity in the digital age (CCURL 2018)	W19 - MLP-Moment 2018	W23 - 6th Workshop on Linked Data in Linguistics : Towards Linguistic Data Science (LDL-2018)	W13 - Natural Language Meets Journalism III (NLP4Journalism)	W25 - Workshop on Replicability & Reproducibility of Research Results in Science & Technology of Language (4REAL)	W11 - 4th Workshop on Indian Language Data Resource & Evaluation (WILDRE-4)	W5 - International FrameNet Workshop 2018: Multilingual FrameNets & Constructions (Framenet2018)	
	pm						W22 - 1st Workshop on Language Resources & Technologies for the Legal Knowledge Graph	W32 - 2nd Workshop on Text Analytics for Cybersecurity & Online Safety (TA-COS 2018)	W16 - 3rd Workshop on Visualization as Added Value in the Development, Use & Evaluation of Language Resources (VisLR III)	-

W33 - GLOBALEX 2018 — <https://globalex.link/globalex2018/> LEXICOGRAPHY & WORDNETS

Thierry Declerck, John McCrae, Roberto Navigli, Ksenia Zaytseva and Tanja Wissik ELEXIS – European Lexicographic Infrastructure: Contributions to and from the Linguistic Linked Open Data <http://www.dictionarportal.eu/en/> <https://elex.is/>
<https://elex.is/join-the-elexis-network-as-observer/>

Sara Carvalho, Rute Costa and Christophe Roche The Role of Conceptual Relations in the Drafting of Natural Language Definitions: an Example from the Biomedical Domain (generisanje definicija na osnovu relacija između termina)

Katrien Depuydt, Jessede Does The Diachronic Semantic Lexicon of Dutch as Linked Open Data (proširenje lemon modela modulom za primere – attestation)

Marie-Claude L'Homme, Nathalie Prévil and Benoît Robichaud A Methodology for Locating Translations of Specialized Collocations

Monica Monachini, Anas Fahad Khan Towards the Construction of a Lexical Data and Technology Ecosystem: The Experience of ILC-CNR

Sabine Tittel, Christian Chiarcos Historical Lexicography of Old French and Linked Open Data: Transforming the resources of the Dictionnaire étymologique de l'ancien français with OntoLex-Lemon

W23 - 6TH WORKSHOP ON LINKED DATA IN LINGUISTICS: TOWARDS LINGUISTIC DATA SCIENCE (LDL-2018)

Christian Chiarcos, Ilya Khait, EmiliePage Perron, Niko Schenk, Jayanthλ, Lucas Reckling AnnotatingSumerian: ALLOD-enhanced Workflow for Cuneiform Corpora (Cuneiform Digital Library Initiative, <https://cdli.ucla.edu>, syntactic parsing, annotation pipeline, CoNLL, RDF, LLOD, pre-annotation)

Ranka Stanković, Cvetana Krstev, Biljana Lazić, Mihailo Škorić ElectronicDictionaries—fromFileSystemtoLemonBasedLexicalDatabase

Fahad Khan Towards the Representation of Etymological and Diachronic Lexical Data on the Semantic Web

Christian Chiarcos, Kathrin Donandt, Hasmik Sargsian, Jesse Wichers Schreur, Maxim Ionov Towards LLOD-based Language Contact Studies: A Case Study in Interoperability

ThierryDeclerck Towards a Linked Lexical Data Cloud based on OntoLex-Lemon

MLP—MOMENT 2018: THE SECOND WORKSHOP ON MULTI-LANGUAGE PROCESSING IN A GLOBALISING WORLD THE FIRST WORKSHOP ON MULTILINGUALISM AT THE INTERSECTION OF KNOWLEDGE BASES AND MACHINE TRANSLATION

<http://mlp.computing.dcu.ie/docs/proceedings.pdf>

GAMES4NLP GAMES AND GAMIFICATION FOR NATURAL LANGUAGE PROCESSING

http://lrec-conf.org/workshops/lrec2018/W12/pdf/book_of_proceedings.pdf



MAIN STAGE:

Day 1	Wednesday 9 May 2018	Detailed Oral Sessions - Poster Sessions - Speech Sessions
Day 2	Thursday 10 May 2018	Detailed Oral Sessions - Poster Sessions - Industry Track Oral - Industry Track Poster
Day 3	Friday 11 May 2018	Detailed Oral Sessions - Poster Sessions

Virtual Participant Bag

- ➔ LREC 2018 Conference Programme Booklet.pdf
- ➔ LREC2018 Attendance letter.pdf
- ➔ LREC2018 Book of Abstracts.pdf
- ➔ LREC2018 Instructions for Authors.pdf
- ➔ LREC2018 Recommendation to Chairs.pdf
- ➔ LREC2018 Welcome letter.pdf



9 May 2018	10 May 2018	11 May 2018
	09:00-09:40 Keynote Speech Charles Yang: How Children Overcome the Sparsity Problem <i>Tenzui</i>	09:00-09:40 Keynote Speech Pascale Fung: Empathetic Dialog Systems <i>Tenzui</i>
09:30-10:45 Opening Ceremony <i>Tenzui</i>	09:45-11:25 ▪ Industry Track • Industrial systems <i>Tenzui</i> 4 Oral and 6 Poster Parallel Sessions ▪ Paraphrase & Semantics <i>Tenran</i> ▪ Emotion & Sentiment (2) <i>Tengyoku</i> ▪ Semantics & Lexicon (2) <i>Tenju</i> ▪ Bilingual Speech Corpora & Code-Switching <i>Tenyo</i>	09:45-11:25 4 Oral and 5 Poster Parallel Sessions ▪ Language Resource Infrastructures <i>Tenran</i> ▪ Digital Humanities & Text Analytics <i>Tengyoku</i> ▪ Crowdsourcing & Collaborative Resource Construction <i>Tenju</i> ▪ Less-Resourced Languages Speech & Multimodal Corpora <i>Tenyo</i>
10:50-11:10 Introductory Session Gail Kent, European Commission Language Resources for a Multilingual Europe <i>Tenzui</i>	Posters in Poster Area 1 ▪ Bibliometrics, Scientometrics, Infometrics ▪ Discourse Annotation, Representation and Processing (1) ▪ Evaluation Methodologies ▪ Information Extraction, Information Retrieval, Text Analytics (2) ▪ Multimodality ▪ Parsing, Syntax, Treebank (1)	Posters in Poster Area 2 ▪ Dialects ▪ Document Classification, Text Categorisation (2) ▪ Information Extraction, Information Retrieval, Text Analytics (3) ▪ Machine Translation, SpeechToSpeech Translation (2) ▪ Morphology (2) ▪ Multilinguality ▪ Part-of-Speech Tagging

11:35-13:15 4 Oral and 7 Poster Parallel Sessions - Machine Translation & Evaluation <i>Tenran</i> - Semantics & Lexicon (1) <i>Tengyoku</i> - Corpus Annotation & Tagging <i>Tenju</i> - Dialogue <i>Tenyo</i> Posters in Poster Area 1 - Anaphora, Coreference - Collaborative Resource Construction & Crowdsourcing - Information Extraction, Information Retrieval, Text Analytics (1) - Infrastructural Issues/Large Projects (1) - Knowledge Discovery/Representation - Opinion Mining / Sentiment Analysis (1) - Social Media Processing (1)	11:45-13:05 4 Oral and 6 Poster Parallel Sessions - Evaluation Methodologies <i>Tenran</i> - Semantics <i>Tengyoku</i> - Information Extraction & Neural Networks <i>Tenju</i> - Dialogue, Emotion, Multimodality <i>Tenyo</i> Posters in Poster Area 1 - Industry Track - Industrial Systems - Language Acquisition & CALL (1) - Less-Resourced/Endangered Languages (1) - Lexicon (2) - Linked Data - Infrastructural Issues/Large Projects (2) 13:10-13:30 Japanese Invited Talk Yukinori Takubo, How many languages are there in Japan? <i>Tenzui</i>	11:45-13:25 4 Oral and 7 Poster Parallel Sessions - Lexicon <i>Tenran</i> - Knowledge Discovery <i>Tengyoku</i> - Multilingual Corpora & Machine Translation <i>Tenju</i> - Corpus Creation, Use & Evaluation (2) <i>Tenyo</i> Posters in Poster Area 1 - Conversational Systems/Dialogue/Chatbots/Human-Robot Interaction (3) - Discourse Annotation, Representation and Processing (2) - Language Acquisition & CALL (2) - Less-Resourced/Endangered Languages (2) - Opinion Mining / Sentiment Analysis (3) - Sign Language - Speech Resource/Database (2)
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9 May 2018	10 May 2018	11 May 2018
14:35-16:15 4 Oral and 7 Poster Parallel Sessions - Language Resource Policies & Management <i>Tenran</i> - Emotion & Sentiment (1) <i>Tengyoku</i> - Knowledge Discovery & Evaluation (1) <i>Tenju</i> - Corpus Creation, Use & Evaluation (1) <i>Tenyo</i> Posters in Poster Area 2 - Character Recognition and Annotation - Conversational Systems/Dialogue/Chatbots/Human-Robot Interaction (1) - Digital Humanities - Lexicon (1) - Machine Translation, SpeechToSpeech Translation (1) - Semantics (1) - Word Sense Disambiguation	14:50-16:30 4 Oral and 7 Poster Parallel Sessions - Discourse & Argumentation <i>Tenran</i> - Less-Resourced & Ancient Languages <i>Tengyoku</i> - Semantics & Evaluation <i>Tenju</i> - Multimodal & Written Corpora <i>Tenyo</i> Posters in Poster Area 2 - Document Classification, Text Categorisation (1) - Morphology - Opinion Mining/Sentiment Analysis (2) - Phonetic Databases, Phonology - Question Answering and Machine Reading - Social Media Processing (2) - Speech Resource/Database (1)	14:45-16:05 4 Oral & 5 Poster Parallel Sessions - Anaphora & Coreference <i>Tenran</i> - Corpus for Document Classification <i>Tengyoku</i> - Knowledge Discovery & Evaluation (2) <i>Tenju</i> - Multimodal & Written Corpora & Tools <i>Tenyo</i> Posters in Poster Area 2 - Corpus Creation, Annotation, Use (2) - Lexicon (3) - Named Entity Recognition - Parsing, Syntax, Treebank (2) - Wordnets and Ontologies
16:35-17:55 4 Oral & 5 Poster Parallel Sessions - Bio-medical Corpora <i>Tenran</i> - MultiWord Expressions <i>Tengyoku</i> - Time & Space <i>Tenju</i> - Computer Assisted Language Learning <i>Tenyo</i> Posters in Poster Area 1 - Annotation Methods and Tools - Corpus Creation, Annotation, Use (1) - Emotion Recognition/Generation - Ethics and Legal Issues - LR Infrastructures and Architectures	16:50-18:30 4 Oral and 7 Poster Parallel Sessions - Social Media & Evaluation <i>Tenran</i> - Standards, Validation, Workflows <i>Tengyoku</i> - Treebanks & Parsing <i>Tenju</i> - Morphology & Lexicons <i>Tenyo</i> Posters in Poster Area 1 - Conversational Systems/Dialogue/Chatbots/Human-Robot Interaction (2) - Language Modelling - Natural Language Generation - Semantics (2) - Speech Processing - Summarisation - Textual Entailment and Paraphrasing	16:25-17:25 Antonio Zampolli Prize Talk <i>Tenzui</i>

Hajicova, Eva

IZDVAJAMO...

Vivian Silv, Andre Freitas, Siegfried Handschuh Building a Knowledge Graph from Natural Language Definitions for Interpretable Text Entailment Recognition, Rad iz Pasaua – analiza definicija u WN <http://www.lrec-conf.org/proceedings/lrec2018/pdf/190.pdf>

Nasredine Semmar A Hybrid Approach for Automatic Extraction of Bilingual Multiword Expressions from Parallel Corpora

Mikolov - vrlo zanimljivo (i posećeno) predavanje, novi rezultati i resursi dostupni na <https://fasttext.cc/> Njegovi LREC radovi <http://www.lrec-conf.org/proceedings/lrec2018/summaries/721.html> i <http://www.lrec-conf.org/proceedings/lrec2018/pdf/627.pdf>

Roxane Segers, Tommaso Caselli, Piek Vossen The Circumstantial Event Ontology (CEO) and ECB+/CEO: an Ontology and Corpus for Implicit Causal Relations between Events

Dodatno...

- Princeton je objavio glosstag (samo link ne radi) ali može se naći <https://github.com/letuananh/lelesk>
- Paul Meurer (zna srpski, majka slovenka) autor alata INESS za treebank – koriste ga poljaci, zasnovan na LFG gramatikama <http://clarino.uib.no/iness/xle-web?session-id=244779226129545>

Cvetana Krstev, cvetana@matf.bg.ac.rs

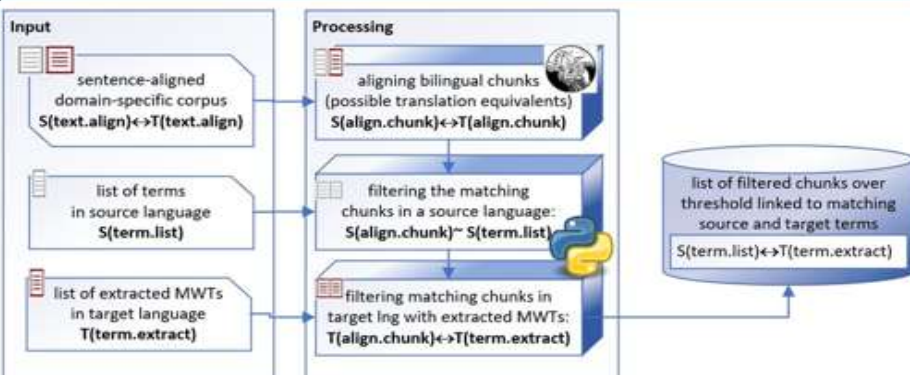
Branislava Sandrih, branslava.sandrih@fil.bg.ac.rs

Ranka Stanković, ranka@rgf.rs

1. Motivation

- ❖ Lack of terminological resources for Serbian in many domains
- ✓ Serbian terminology is today transferred mainly from English
- ✓ Terminology consists mainly of Multi-Word Terms (MWT)
- ✓ MWT terms in Serbian has a limited number of syntactic structures
- ❖ Hypothesis:
- ✓ On the basis of the bi-lingual, aligned, domain-specific textual resources, the terminological list in the source language and the system for the extraction of MWT in the target language it is possible to compile the bilingual aligned terminological list

2. The Design of the System



- Test approach and determine a threshold using existing bi-lingual terminology resource to establish how many aligned chunks:
 - ✓ after two-pass filtering have a target part that matches a target term in the bilingual resource;
 - ✓ after the first have a target part that matches a term from the list of extracted terms in a target language and does not match a target term in the bi-lingual resource ;
 - ✓ obtained in the previous step contain a sound terminology in target part (the new bi-lingual terminological pairs established).

3. The Set-Up of the Experiment

- ❖ Aligned/parallel corpus Journal for Digital Humanities Infotheca
- ❖ Dictionary of Library and Information Science
- ❖ Rule-based terminology extraction and lemmatization based on e-dictionaries and local grammars

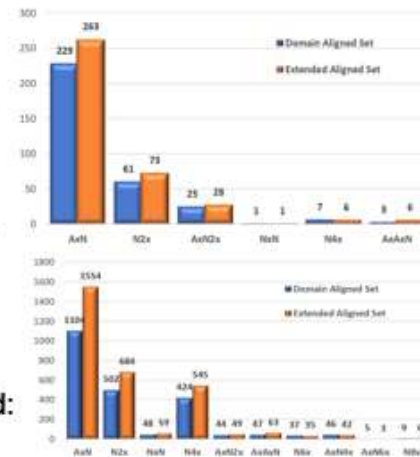
ID	Inflectional class	Syntactic pattern	Description	Forms	Lemmas
1	AxN	AxN	Both components inflect and agree in gender, number and case	18,249	13,948
2	2xN	2xN	1 st component does not inflect	123	99
3	N2x	NxN _{g(i)}	1 st component inflects; the second is always in gen/instr	7,724	6,528
4	NxN	NxN	Both components inflect and agree in case and number	3,775	3,522
5	N4x	NxA _{g(i)} (x)N _{g(i)} NxPrepxN _{pc}	1 st component inflects; the second and third are in gen/instr 1 st component inflects; 3 rd agrees in case with a preposition	9,647	8,909
6	AxN2x	AxN2x	1 st component inflects and agrees with a structure 3.	2,662	2,480
7	AxAxN	AxAxN	All 3 components inflect and agree in gender, number and case	2,421	2,260
8	2xAxN	2xAxN	1 st component does not inflect; 2 nd and 3 rd are structure 1	137	113
9	N6x	Nx(S ₃) _{g(i)} NxPrep(S ₂) _{pc}	1 st inflects; 2 nd , 3 rd and 4 th are a structure 5–8 in gen/instr 1 st component inflects; 3 rd and 4 th are a structure 1–4 in a case that agrees with a preposition	2,452	2,376
10	AxN4x	AxN4x	The 1 st component inflects and agrees with a structure 5.	3,160	3,082
11	AxN6x	AxN6x	1 st inflects and agrees with a structure 5–8 in gen/instr	1,263	1,252
12	N8x	Nx(S ₁) _{g(i)} NxPrep(S ₃) _{pc} (S ₂)xPrep(S ₂) _{pc}	1 st inflects; remaining 4 are structure 8, 9 in gen/instr 1 st inflects; last three are a structure 5–8 in a case that agrees with a preposition First two are structure 1–4; last two are a structure 1–4 in a case that agrees with a preposition	1,135	1,113

- A – adjective, N – noun, Prep – preposition,
- g – the genitive case, i – the instrumental case,
- pc – the case that agrees with the preceding preposition,
- x – a word separator or a MWU component that does not inflect;
- S2/S3/S4 – two/three/four component MWU

- ❖ Bilingual Serbian/English list of inflected word forms and MWE pairs derived from bilingual dictionaries and morphological (inflected) dictionaries for Serbian and English;

4. Results and Evaluation

- 1) Number of initially aligned chunks after two-pass filtering (Eng. part matches some term in Dictionary and Serb. is MWT) was 11,678
- 2) Additional filtering: 425 different MWTs from Serb. Dictionary matched with Serb. part of the aligned chunk
- 3) Aligned chunks from Step 1) filtered with extracted MWT candidates: 2,266 chunks obtained, 2,120 of them matching different extracted MWTs
- 4) Aligned chunks from step 2) filtered: 326 different Serbian MWTs both matched with the Dictionary and extracted by tool
- 5) Aligned chunks from step 3) filtered: 1,935 Serbian MWTs extracted by our term extractor (not in the Dictionary; may be synonymous to some term already in the Dictionary due to the condition in step 1)
- 6) Excluding only partially correct pairs (Eng. SWT mostly, reducing to 1,018 pairs at the end



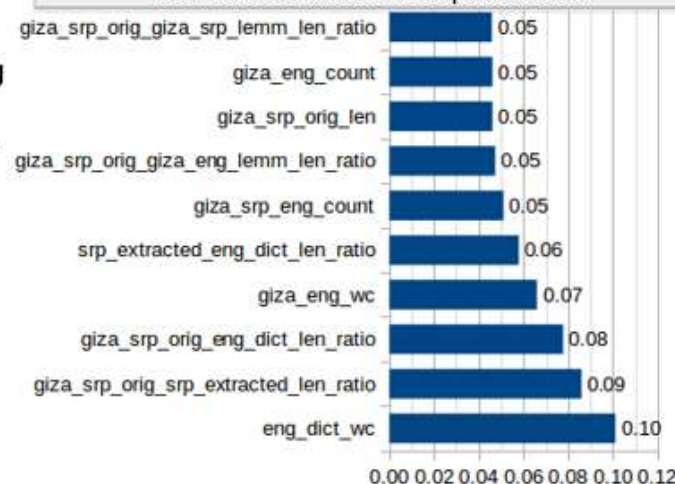
5. Classification

Gradient Boost classifier evaluation

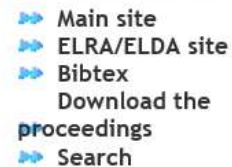
k	1	2	3	4	5	Avg
Acc	0.844	0.848	0.870	0.852	0.888	0.861
R	0.906	0.899	0.912	0.865	0.896	0.896
P	0.856	0.864	0.897	0.896	0.908	0.884
F ₁	0.881	0.881	0.905	0.880	0.902	0.890

- **Binary supervised classifier** developed to predict whether extracted terms belong to a domain terminology.

Influence of features on predictions



Serbian Giza Chunk	Serbian Giza Lemmatized	Serbian Extracted	Serbian Dictionary	English Dictionary	Result sets	MWT
bibliotečkih udruženja sa	bibliotečki udruženje	bibliotečki udruženje	biblioteka društvo	association library	1, 3, 5, 6	yes
bibliotekarskim društvima	bibliotekarski društvo u	bibliotekarski društvo	biblioteka društvo	association library	1, 3, 5, 6	yes
bibliotečka asocijacija	nije bibliotečki asocijacija	bibliotečki asocijacija	biblioteka društvo	association library	1, 3, 5, 6	yes
udruženja i asocijacija poput biblioteke	udruženje i asocijacija poput biblioteka		biblioteka društvo	association library	1	
bibliotekarskog društva	bibliotekarski društvo	bibliotekarski društvo	bibliotekar	librarian	1, 3, 5	
bibliotečko informacionog sitema	bibliotečki informacioni sitema na	bibliotečki informacioni sistem	bibliotečki informacioni sistem	library information system	1, 2, 3, 4	
biblioteka medijateka	biblioteka medijateka		bibliotečki informacioni sistem	library information system	1	
drugim bibliotečko informacionim sistemima da	drugi bibliotečki informacioni sistem		bibliotečki informacioni sistem	library information system	1	
i informacioni sistemi u bibliotekama	informacioni sistem u biblioteka	informacioni sistem u biblioteka	bibliotečki informacioni sistem	library information system	1, 3, 5, 6	yes
koriste ovaj bibliotečko informacioni sistem	koji koriste ovaj bibliotečki informacioni sistem		bibliotečki informacioni sistem	library information system	1	
bibliotečke građe koju	bibliotečki građa koji	bibliotečki građa	bibliotečki građa	library material	1, 2, 3, 4	
biblioteka i bibliotečke građe	biblioteka i bibliotečki građa		bibliotečki građa	library material	1	
građe u bibliotekama	građa u biblioteka	građa u biblioteka	bibliotečki građa	library material	1, 3, 5, 6	yes
građu sve su biblioteke pod	građa sav su biblioteka		bibliotečki građa	library material	1	
bibliotekskog materijala	bibliotečki materijal i	bibliotečki materijal	bibliotečki građa	library material	1, 3, 5, 6	yes
građe iz drugih biblioteka a	građa iz drugi biblioteka		bibliotečki građa	library material	1	
bibliotečke standarde	bibliotečki standard	bibliotečki standard	bibliotečki građa	library material	1, 3, 5, 6	no
u pitanju bibliotečki materijal	pitanje bibliotečki materijal za		bibliotečki građa	library material	1	
biblioteka partnera	biblioteka partner i	biblioteka partner	biblioteka učesnica	participating library	1, 3, 5, 6	yes
biblioteke učesnice	biblioteka učesnica i	biblioteka učesnica	biblioteka učesnica	participating library	1, 2, 3, 4	yes

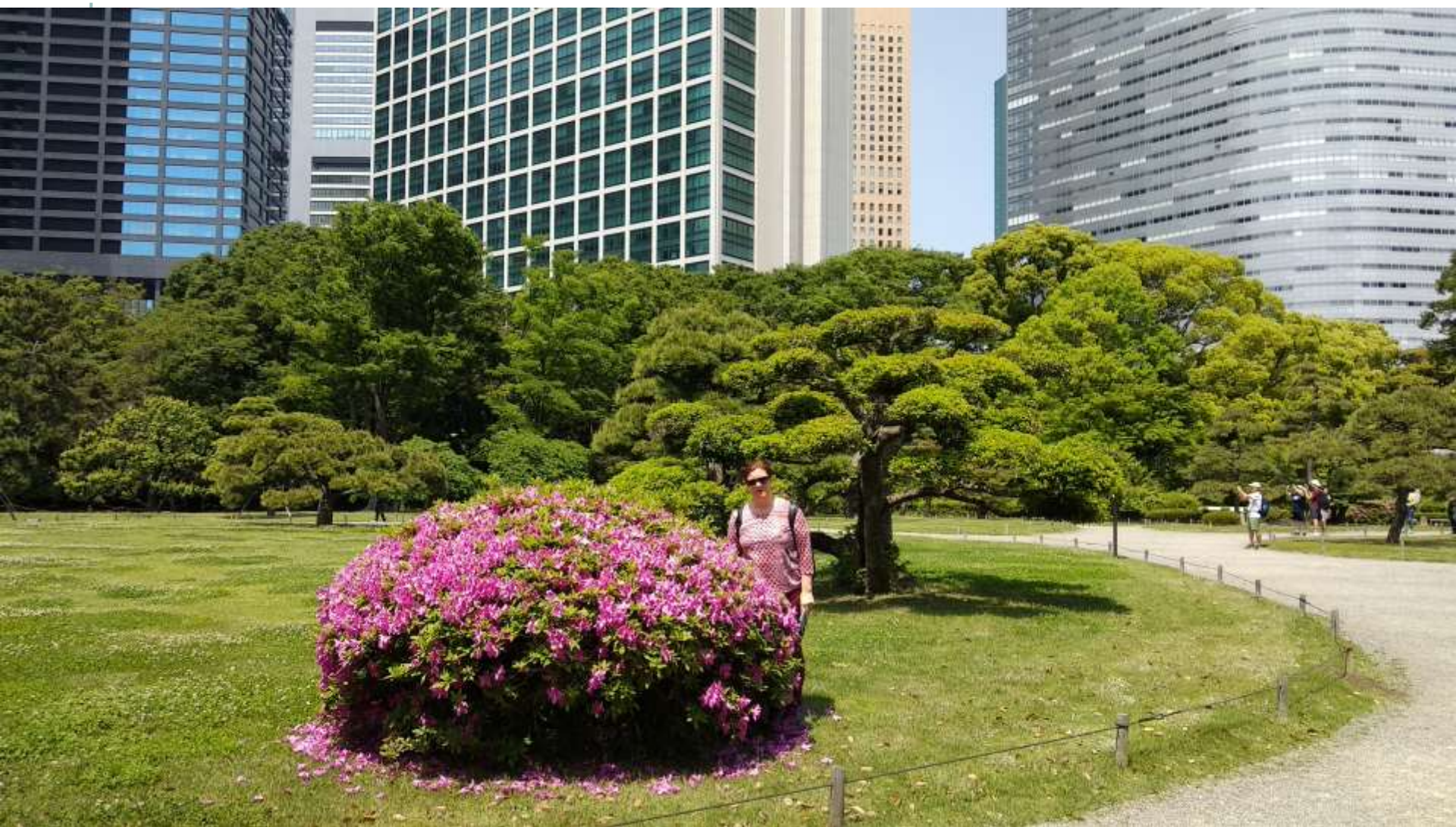


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LREC 2018, Eleventh International Conference on Language Resources and Evaluation	May 7-12, 2018 Phoenix Seagaia Conference Center Miyazaki, Japan
Editors: Nicoletta Calzolari (Conference chair), Khalid Choukri, Christopher Cieri, Thierry Declerck, Sara Goggi, Koiti Hasida, Hitoshi Isahara, Bente Maegaard, Joseph Mariani, Hélène Mazo, Asuncion Moreno, Jan Odijk, Stelios Piperidis, Takenobu Tokunaga	Copyright by the European Language Resources Association ISBN: 979-10-95546-00-9 EAN: 9791095546009 The LREC 2018 Proceedings are licensed under a Creative Commons Attribution- NonCommercial 4.0 International License

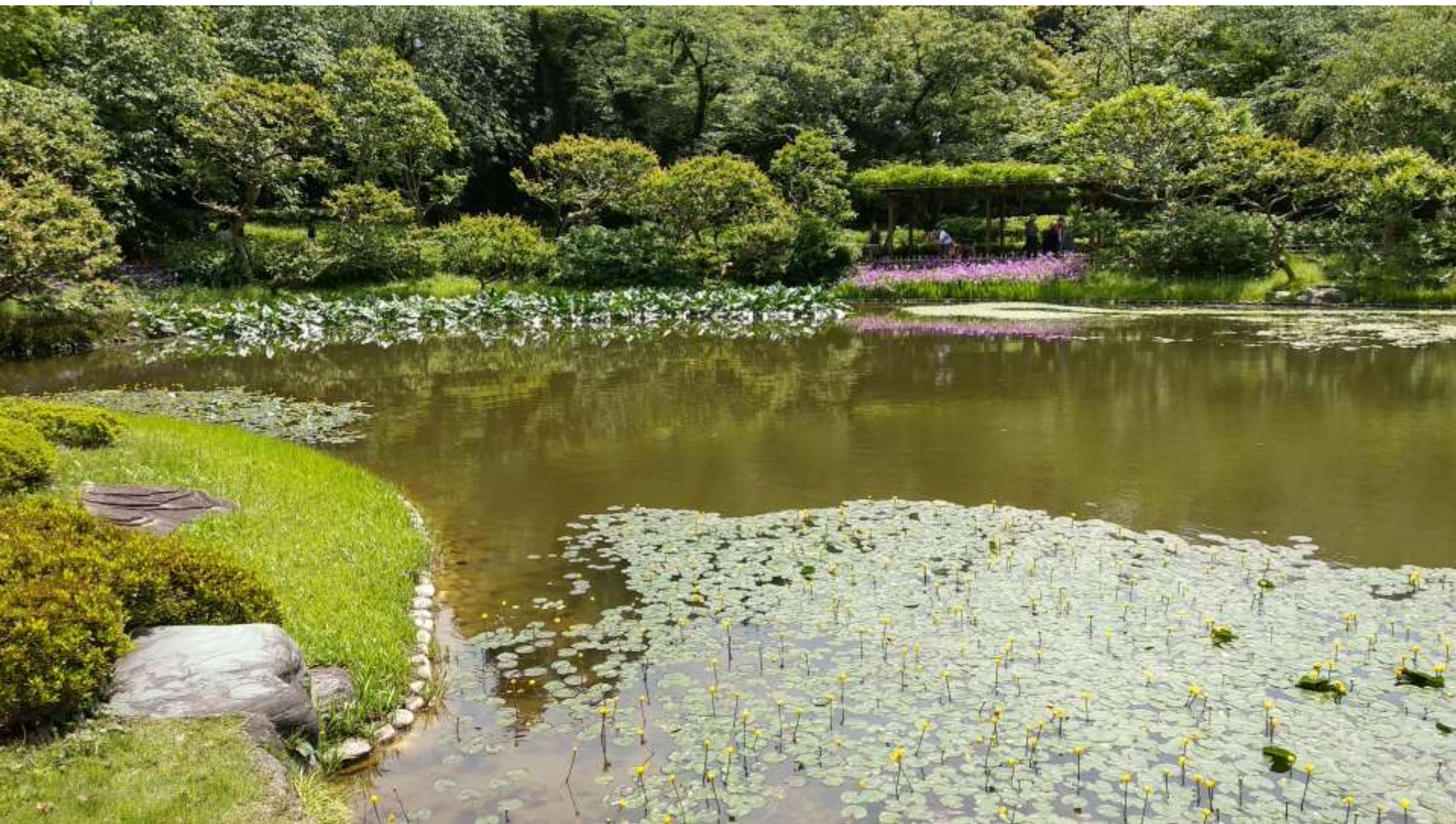
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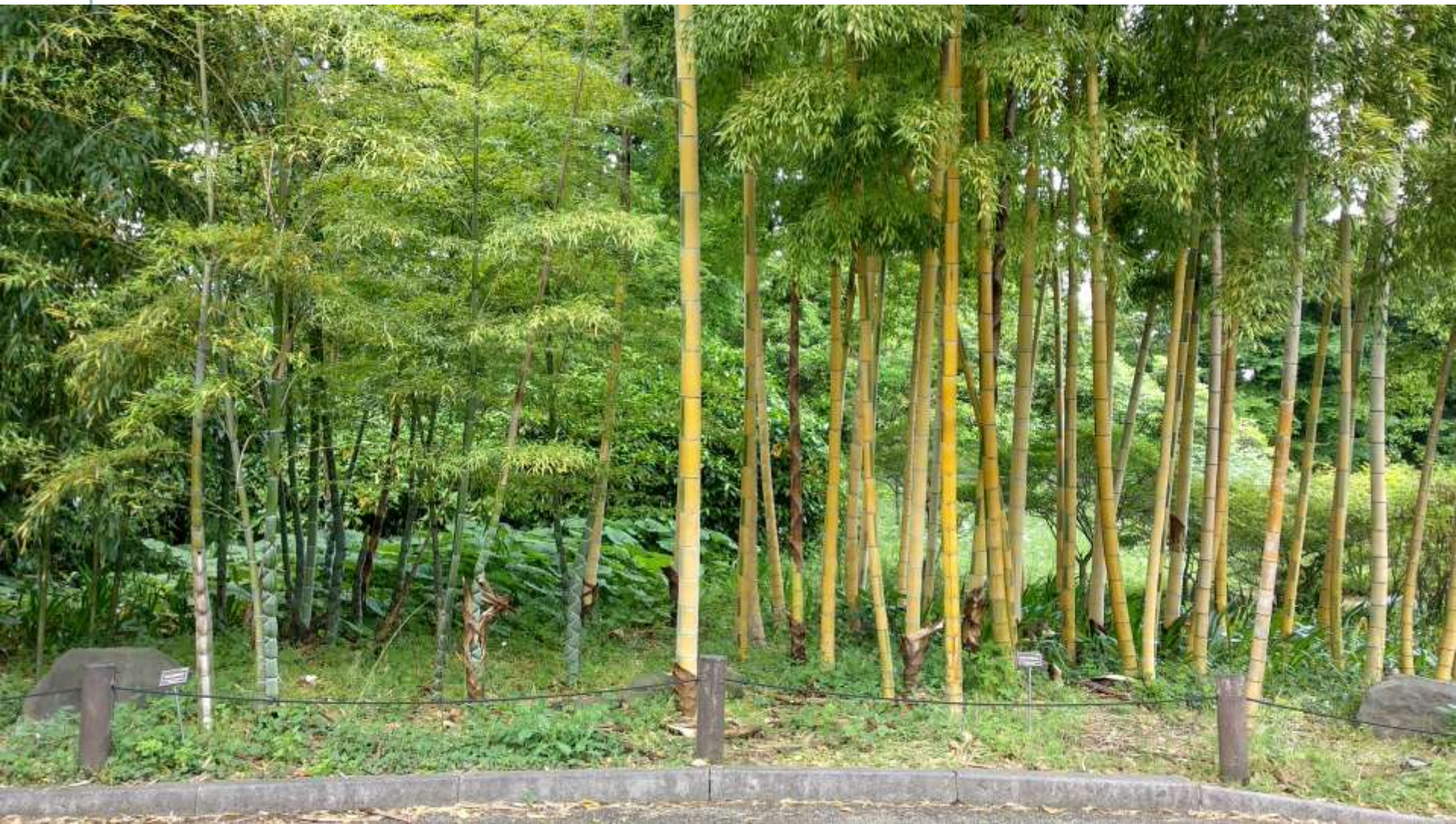




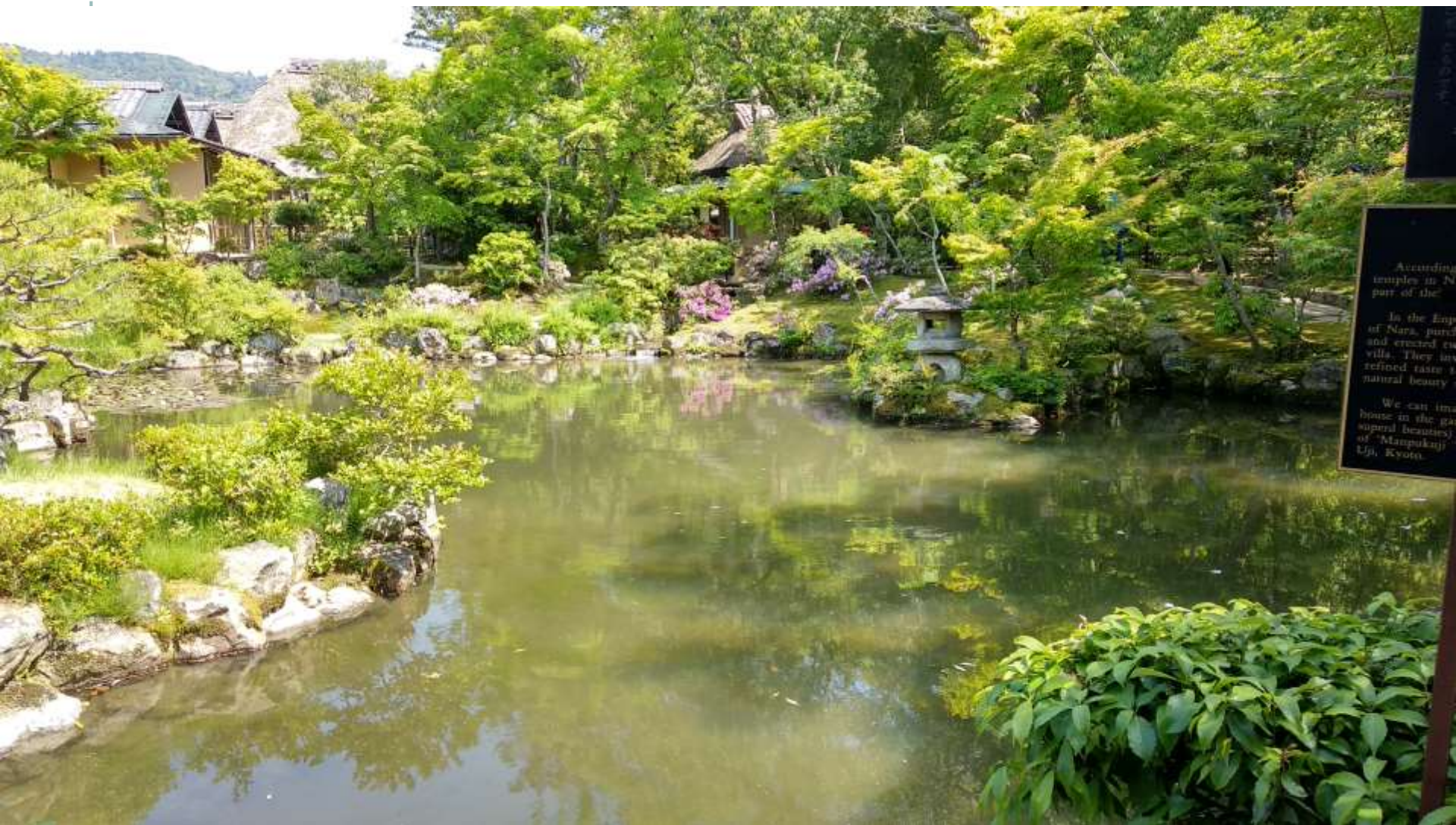












According to the legend, the garden was part of the villa of the Emperor of Nara, and erected by the villa. They have refined taste and natural beauty.

We can imagine the garden in the garden of the villa of the Emperor of Nara, and erected by the villa. They have refined taste and natural beauty.

Uji, Kyoto.















元三大師堂は智恵の殿です。
この輪くぐりには大きな
下さいまよう合掌して御
ご真言「おんばらだん
唱えてくぐりねけて下
さい

らえの輪くぐり























ありがとうございます！

Arigatō gozaimasu!

ХВАЛА НА ПАЖЊИ!

