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«Фундаментальная и компьютерная лингвистика»

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**Правильный морфологический парсер для шугнанского языка:
существительные, глаголы и прилагательные**

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Contents

1	Introduction	3
1.1	Shughni	3
1.2	Morphology parsing TODO: rethink this heading	4
2	Existing methods and solutions	4
2.1	Deep learning methods	4
2.2	Rule-based methods	4
2.3	Existing solutions for Shughni	4
3	Data	4
3.1	Grammar descriptions	4
3.2	Dictionaries	4
3.3	Text corpora	4
4	Methods	4
4.1	Finite-state transducers	4
4.2	Rule declaration TODO: rethink heading	4
4.2.1	Nouns	4
4.2.2	Verbs	4
4.2.3	Adjectives	4
4.2.4	Pronouns(?)	4
4.2.5	Numerals(?)	4
4.2.6	Anything else(?)	4
4.3	Metrics	4
5	Results	4
6	Conclusion	4
	References	5

Abstract

In this work I present a rule-based morphological analysis tool based on Helsinki Finite-State Technology (HFST) for the Shughni language (ISO: sgh; glottocode: shug1248), a language of the Iranian branch of the Indo-European family, a member of ‘Pamiri’ areal language group. While one existing rule-based parser exists for Shughni (Melenchenko, 2021), it does not utilize finite-state transducer technology. This work proposes the first HFST-based morphological parser implementation for Shughni, offering the advantages of this well-established framework for morphological analysis. The parser is presented in two variations: a morphological parser that breaks each word-form into stem and morphemes and assigns morphological tags to each one of them; a morphological generator that outputs word-forms taking a stem and morphological tags as an input. **TODO: prev sentence is questionable** This is a continuation my previous work, where nouns, pronouns, prepositions and numerals were implemented (Osorgin, 2024). This project covers **TODO: what**

TODO: Review abstract after finishing the work

1 Introduction

1.1 Shughni

The Shughni language (ISO: sgh; Glottolog: shug1248) is a language of the Iranian branch of the Indo-European family (Plungian, 2022, p. 12). As of June 1997, it was estimated to be spoken by approximately 100,000 people (Edelman & Yusufbekov, 1999, p. 225) **TODO: найти http://old.iea.ras.ru/publications_new/kalandarov.html ? там тоже есть оценка** in the territories of Tajikistan and Afghanistan. Both countries have a subregion where Shughni is the most widely spoken native language. The Shughni-speaking subregion of Tajikistan is called ‘Shughnon’ and it belongs to the ‘Gorno-Badakhshan Autonomous’ province. In Afghanistan, the Shughni-speaking region is called ‘Shughnan’ and it lies within the territory of ‘Badakhshan’ province (Parker, 2023, p. 2).

TODO: Pamiri

1.2	Morphology parsing	TODO: rethink this heading
2	Existing methods and solutions	
2.1	Deep learning methods	
2.2	Rule-based methods	
2.3	Existing solutions for Shughni	
3	Data	
3.1	Grammar descriptions	
3.2	Dictionaries	
3.3	Text corpora	
4	Methods	
4.1	Finite-state transducers	
4.2	Rule declaration	TODO: rethink heading
4.2.1	Nouns	
4.2.2	Verbs	
4.2.3	Adjectives	
4.2.4	Pronouns(?)	
4.2.5	Numerals(?)	
4.2.6	Anything else(?)	
4.3	Metrics	
5	Results	
6	Conclusion	

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