Igor Rozhkov

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Research Interests

Nested Named Entity Recognition, Relation Extraction, Biomedical NLP, Domain Adaption for Information Retrieval

Education

Lomonosov Moscow State University, Computer Science, NLP — Moscow, Russia — 2018 – 2022
- Thesis: A Study of Methods for Automatic Nested Named Entity Recognition
- Advisor: Natalia Loukachevitch

Lomonosov Moscow State University, Computer Science, NLP — Moscow, Russia — 2022 – 2024
- Thesis: Recognizing nested entities based on flat annotation
- Advisor: Natalia Loukachevitch

Lomonosov Moscow State University, Computer Science, NLP — Moscow, Russia — 2024 – present
- Thesis: Methods for Nested Named Entity Recognition
- Advisor: Natalia Loukachevitch

Publications

Methods for Recognizing Nested Terms — May 2025
Igor Rozhkov, Natalia Loukachevitch
10.48550/arXiv.2504.16007

Domain-Specific Named Entity Extraction from a Heterogeneous Input Stream — Jan 2025
N. V. Loukachevitch, *I. S. Rozhkov*, B. V. Dobrov
(Programming and Computational Mathematics: Proceedings of the Conference Dedicated to the 100th Anniversary of N. P. Trifonov)

NEREL: A Russian Information Extraction Dataset with Rich Annotation for Nested Entities, Relations, and Wikidata Entity Links — June 2024
Natalia Loukachevitch, Ekaterina Artemova, Tatiana Batura, Pavel Braslavski, Vladimir Ivanov, Suresh Manandhar, Alexander Pugachev, *Igor Rozhkov*, Artem Shelmanov, Elena Tutubalina, Alexey Yandutov
10.1007/s10579-023-09674-z (Language Resources and Evaluation)

Pre-trained Language Models for Nested Named Entity Recognition — Jan 2024
N. V. Loukachevitch, *I. S. Rozhkov*
(Lomonosov Readings 2024: Scientific Conference, Faculty of CMC, Lomonosov Moscow State University. Abstracts)

Machine Reading Comprehension Model in Domain-Transfer Task — Aug 2023
I. S. Rozhkov, N. V. Loukachevitch
10.1134/S1995080223080504 (Lobachevskii Journal of Mathematics)

Prompts in Few-Shot Named Entity Recognition — June 2023
I. S. Rozhkov, N. V. Loukachevitch
10.1134/S1054661823020104 (Pattern Recognition and Image Analysis)

NEREL-BIO: A Dataset of Biomedical Abstracts Annotated with Nested Named Entities — Jan 2023
Natalia Loukachevitch, Suresh Manandhar, Elina Baral, *Igor Rozhkov*, Pavel Braslavski, Vladimir Ivanov, Tatiana Batura, Elena Tutubalina
(Bioinformatics)

RuNNE-2022 Shared Task: Recognizing Nested Named Entities   June 2022
Ekaterina Artemova, Maxim Zmeev, Natalia Loukachevitch, *Igor Rozhkov*, Tatiana Batura,
Vladimir Ivanov, Elena Tutubalina
10.28995/2075-7182-2022-21-33-41 (COMPUTATIONAL LINGUISTICS AND INTELLECTUAL
TECHNOLOGIES)

Machine Reading Comprehension Model in RuNNE Competition   June 2022
Igor Rozhkov, Natalia Loukachevitch
10.28995/2075-7182-2022-21-488-496 (Computational Linguistics and Intellectual Tech-
nologies)

Conference Presentations

Dialogue Evaluation 2022   2022
- Machine Reading Comprehension Model in RuNNE Competition (oral)

Huawei workshop 'ML/AI/NLP for search-engine performance improvement'   2022
- Prompts in few-shot and cross-domain tasks of nested named entity recognition

Lomonosov Readings 2024, Section of Computational Mathematics and Cybernetics 2024
- Pre-trained Language Models for Nested Named Entity Recognition (oral)

Conference 'Programming and Computational Mathematics' Dedicated to the 100th 2025
Anniversary of N. P. Trifonov
- Domain-Specific Named Entity Extraction from a Heterogeneous Input Stream (oral)

Experience

Research Computing Center of Lomonosov Moscow State University, Researcher   Moscow, Russia
                                                                                 2022 – present
                                                                                 4 years

Ivannikov Institute for System Programming of the Russian Academy of Sciences, Moscow, Russia
Research Intern   2024 – present
                                                                                 2 years

Teaching Assistance

Methods and Tools of Information Retrieval   2024

Methods and Tools of Information Retrieval   2025

Departmental Practicum   2025

Professional Service

RuNNE-2022 baseline organization   2022

BioNNE-R Shared Task competition at CLEF 2026 BioASQ   2026

Awards

Lomonosov Moscow State University Scholarship for Young Researchers, Graduate   2024
Students, and Students with Outstanding Achievements in Teaching and Research

Skills

Technical Skills: Python, PyTorch, HuggingFace Transformers, Docker

Languages

English: C1

Russian / Русский: Native

Japanese / 日本語: B1 level / JLPT N4