



1st International Workshop on Natural Language-Based Software Engineering (NLBSE 2022)

Co-located with ICSE: May, 2022
Virtual (Pittsburgh, USA)

<https://nlbse2022.github.io/>

Important Dates

January 14th, 2022: Paper submission
February 21st, 2022: Tool paper submission
February 25th, 2022: Author notification
March 4th, 2022: Tool paper notification
March 18th, 2021: Camera-ready

Organizing Committee

Andrea Di Sorbo (University of Sannio, Italy)
Sebastiano Panichella (Zurich University of Applied Sciences, Switzerland)

Research Topics

Papers should address a problem in the software engineering domain or combine elements of NLP research with other concerns in the software engineering lifecycle, such as:

- Key information identification and extraction from natural language software artifacts
- Elicitation, modeling, and verification of requirements
- Classification, summarization, and prioritization of development tasks

Solutions should apply NLP-based approaches and/or models such as:

- Textual analysis
- Text summarization
- Topics or aspects modeling and extraction
- Machine translation
- Natural language parsing/generation
- Semantic parsing
- Discourse analysis

We are pleased to announce the 1st workshop on Natural Language-Based Software engineering (NLBSE) held virtually. Natural language processing (NLP) refers to automatic computational processing of human language, including both algorithms that take human-produced text as input and algorithms that produce natural-looking text as outputs. There is a widespread and growing usage of NLP approaches to optimize many aspects of the development process of software systems. Indeed, during the software development lifecycle, natural language artifacts are used and reused. The availability of natural language-based approaches and tools enabled the envision of methods for improving efficiency in software engineers, processes, and products.

The objectives of this workshop are to bring together researchers and industrial practitioners both from NLP and the software engineering community to collaborate, to share experience, to provide directions for future research, to encourage the use of NLP techniques and tools for addressing software engineering-specific challenges.

We invite full research papers (8 pages), short papers (4 pages), position or early-stage research papers (2 pages), and tool competition entries (4 pages).

Tools Competition

We are also pleased to announce the first edition of the issue classification tool competition. Researchers, students, and tool developers are invited to leverage a dataset comprising more than 800,000 labeled issues (extracted from real-world open source projects) for training and evaluating their issue report classification approaches and compare the achieved results against a proposed baseline tool. Please see our website for more details:

<https://nlbse2022.github.io/tools/index.html>