

# The fifth international Workshop on Health Natural Language Processing (HealthNLP 2022) at ICHI

June 13th, 2022, Rochester, Minnesota, USA

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## Call for Participation

Natural Language Processing (NLP) technologies have received significant attention in the medical domain and have demonstrated numerous successful uses in healthcare applications. The 2022 HealthNLP workshop will provide a unique platform for close interactions among students, scholars, and industry professionals who are interested in NLP over health data such as clinical notes, social media, and biomedical literature. We are calling for papers and abstracts about original research and works in progress in health NLP methods, tools, and applications.

### Topics of interest

**NLP methods:** any original methodological research, including but not limited to following areas: language models and learning architectures (e.g., transformers), deep learning, named entity recognition, word sense disambiguation, relation extraction, syntactic parsing, semantic role labeling, topic modeling, discourse analysis, question answering, and other topics related to health NLP.

**NLP software tools:** any general or specific NLP tools for health data such as clinical notes, social media, biomedical literature etc.

**NLP applications:** uses of NLP for clinical research or operation, examples including pharmacovigilance, clinical decision support, phenotyping, predictive modeling, risk prediction, social media mining etc.

### Schedule-at-a-Glance

- **Keynote**, 1 hour
- **Paper presentation**, 3 hours
- **Poster presentation**, 1 hour
- **Round table discussion**, 1 hour

### Submission and Review

Authors may submit regular papers (4-10 pages, including references) and abstracts (2 pages, including references) in the format used for the ICHI submissions. As with ICHI, the workshop will follow single-blind reviewing. Therefore, submissions should have the names and affiliations of authors listed on the paper. Papers must adhere to the IEEE Proceedings Format available for LaTeX and Word, and submitted as a single PDF file. Submissions will be handled electronically through EasyChair (<https://easychair.org/conferences/?conf=healthnlp2022>). For more information, please read the detailed submission instructions <https://www.healthnlp.info>).

All submissions will undergo a peer review by at least two domain experts from the program committee. The selection of papers and posters will be primarily based on the potential to generate discussion and impact future research directions. Accepted papers will be included in the ICHI 2021 Proceedings and IEEE Digital Library. Selected papers will be invited to publish an extended version of their work in a special issue of a journal (TBD, either BMC Medical Informatics and Decision Making journal or Journal of Healthcare Informatics Research), with a discount publication fee.

### **More information**

- For more information, please visit <https://www.healthnlp.info>

### **Organizers**

#### Chair:

- **Yonghui Wu**, PhD, Assistant Professor, College of Medicine, Department of Health Outcomes & Biomedical Informatics, University of Florida, Gainesville, FL, US.
- **Hua Xu**, PhD, Professor, School of Biomedical Informatics, University of Texas Health Science Center at Houston, Houston, TX, US.

#### Steering committee:

- Dina Demner Fushman, Dina, MD, PhD, National Library of Medicine, US
- Wendy Chapman, PhD, University of Utah, US
- Buzhou Tang, PhD, Harbin Institute of Technology, China
- Ozlem Uzuner, PhD, George Mason University, US
- Karin Verspoor, PhD, University of Melbourne, Australia
- Hongfang Liu, PhD, Mayo Clinic, US
- Stephane Meystre, MD, PhD, OnePlanet Research Center, Netherlands

### **Important Dates**

- Deadline for all submissions: **March 10<sup>th</sup>, 2022**
- Notification of decisions: **March 25<sup>th</sup>, 2022**
- Camera ready workshop papers due: **April 10<sup>th</sup>, 2022**
- Workshop date: **June 13<sup>th</sup>, 2022**