



NLP: mining clinical notes in EHR systems

Workshop, Tuesday March 10th, 2020

Time: 9 - 15

Venue: LINKEN (Jiehkkiwarri Auditorium)

Siva Innovation Centre

Sykehusveien. 23

9019 Tromsø

Background:

Pathology reports, discharge notes and other clinical notes represents a large chunk of data on patients, disease progression and care processes within EHR systems. Much of this data is difficult to fully utilize at the point-of-care or re-use for research since the data is unstructured. Emerging computational and statistical techniques promise interesting new insights from these previously inaccessible information sources.

Objectives:

- Provide an overview of the current knowledge in the field
- Primer on challenges and opportunities
- Brainstorm problem areas for future research activities

Presenters:

Hercules Dalianis, PhD – Professor in Computer and Systems Sciences at Stockholm University, Sweden. Guest professor at the Norwegian Centre for E-health Research at UNN, Norway

Sumithra Velupillai, PhD - Lecturer in Applied Health Informatics, King's College London

Natalia Viani, PhD – Post doc researcher - King's College London

Hanna Berg – MSc student - Stockholm University, Sweden

Synnøve Bråten – MSc student - Stockholm University, Sweden

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9:00 - 9:15	Welcome and introduction
9:15 - 10:00	Why do we need NLP? Hercules Dalianis, Synnøve Bråten
10:00-10:15	Coffee break
10:15-11:00	Different types of NLP problems Sumithra Velupillai
11:00-11:30	Getting access to data and how to use the data – some use cases discussion Panel discussion
11:30 - 12:30	Lunch
12:30 - 13:15	De-identifying unstructured clinical text Hercules Dalianis, Hanna Berg
13:15 - 14:00	Set up a clinical NLP research study Sumithra Velupillai, Natalia Viani
14:00 - 14:15	Coffee break
14:15 - 15:00	Technical session