**Information Manipulation Classification Theory for LIS and NLP**

**KEYWORDS:** Deception varieties, lie–truth discrimination, information manipulation, disinformation, distortion; information literacy, facetted classification, feature-based approach, facetted classification.

**THE LAB:**

Our **Mission** is to improve access to information by developing language and content models and software applications that can approach human-like understanding of texts through Natural Language Processing techniques.

In **LIT.RL** ([http://publish.uwo.ca/~vrubin](http://publish.uwo.ca/~vrubin)) our **research emphases** are on:

- identifying, acquiring, describing, and providing access to information in a textual format;
- critically evaluating natural language technologies and envisaging their creative applications in specific applied domains such as health, finance, law, news, and social media;
- employing appropriate natural language technologies to organize relevant textual information in a meaningful way.

**BIOS:**

**Dr. Victoria Rubin** ([vrubin@uwo.ca](mailto:vrubin@uwo.ca)) is an Assistant Professor at the Faculty of Information and Media Studies and the Director of the **Language and Information Technologies Research Lab** (LiT.RL) at the University of Western Ontario. She received her Ph.D. in Information Science and Technology in 2006 as well as her M.A. in Linguistics in 1997 from Syracuse University, and a B.A. English, French, and Interpretation from Kharkiv National University, Ukraine in 1993. Her research interests are in information organization and information technology. She specializes in information retrieval and natural language processing techniques that enable analyses of texts to identify, extract, and organize structured knowledge.

**Yimin Chen** ([ychen582@uwo.ca](mailto:nychen582@uwo.ca)) is a second year PhD student in the Faculty of Information and Media Studies at the University of Western Ontario. Driven by a long standing fascination with the internet and its communities, cultures, and quirks, his current research revolves around internet trolls and trolling.

**DECEPTION DETECTION AGENDA:**

Dr. Rubin and her students at the LiT.RL are interested in complex human information behaviors that are, at least partly, expressed through language such as uncertainty, credibility, emotions, and deception. The underlying premise is that language may exhibit subtle but discernible properties that mark these and other para-linguistic phenomena. To support their decision-making, information seekers and users should rely on accurate, truthful and complete information from credible expert sources. The questions the Lab has been addressing in the past 3 years of her research are related to deviations from this ideal case scenario:

- Can receivers of information tell the difference between truthful and deceptive information, and if so, how well?
- How, if at all, can algorithms pick up cues to deception in order to alert readers to senders’ potential deceptive behaviors?

**CITATION FOR THIS WORK**


**OTHER RECENT RELATED WORK**

