



Who we are

- Org.: National Research Council of Canada (NRC)
- Lead Investigator: Dr. Roland Kuhn
- Current Research Team Members:

Boxing Chen
Colin Cherry
George Foster
Pierre Isabelle
Roland Kuhn
Jackie Lo
Michel Simard

MT

Colin Cherry
Cyril Goutte
Svetlana Kirichenko
Saif Mohammad
Jiang Su
Xiodan Zhu

IE, IR, Semantics, Sentiment ,
Trend analysis ...



Research Areas

- Involved in MT/NLP research for several decades.
- Ongoing MT research:
 - Help push the current NMT revolution via faster training of NNs (speeding up softmax), advanced data selection, etc.
 - MT for social media (e.g., Arabic tweets).
 - Language pairs: Arabic-English, Arabic-French, Chinese-English, English-French, Russian-English, etc.
 - Support existing commercial deployment of PORTAGE SMT.
- Other ongoing NLP research:
 - IE, IR/CLIR; text classification and summarization; sentiment & emotion analysis; trend analysis.
 - Spans academic, industrial and government interests.



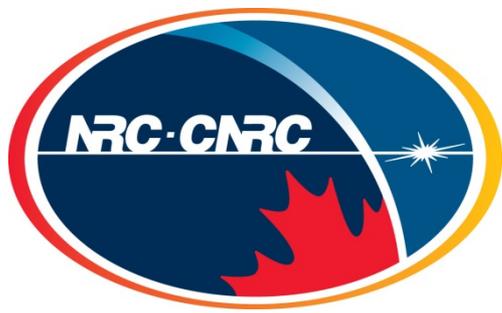
Qualifications/Capabilities

- **Deep expertise SMT/NMT**
 - DARPA projects: participants in GALE, BOLT, QCR.
 - Recently: DNN capabilities; statistical tie for first place in WMT 2016 (Russian > English news) with hybrid DNN-phrase based system.
 - Experts on MT post-editing (e.g., invented automatic post-editing)
- **History of successful and consistent delivery:**
 - Strong showing in international evaluations in MT (NIST, WMT, etc.), IE (I²B²), sentiment (SemEval), text classification (DSL), etc.
 - Commercially deployed (MT, summarization)
 - Govt. of Canada contracts: in MT (Translation Bureau, CSEC, Courts Admin Service) and other NLP areas (Defence, Health Canada).
 - US govt.: NVTC contract (text classification for MAT)



Eventual Involvement in MATERIAL

- Join forces with other top labs to advance the state of MT, CLIR and related technologies.
- Help push DNN revolution.
- NRC is not involved in speech technologies:
 - Wishes to work with suitable partners for testing our technologies in a variety of settings including speech I/O.
- NRC is comfortable in working in tightly managed leading-edge projects (extensive DARPA experience).



Contact Information

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