

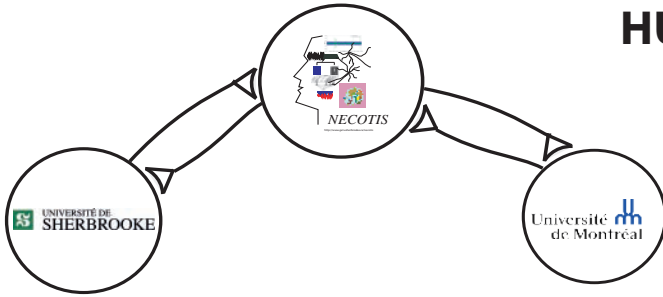
ROBUST AUDITORY SCENE ANALYSIS IN INTERACTION WITH SENSORY-MOTOR MODALITIES FOR HUMAN LANGUAGE UNDERSTANDING

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From Physiology and Psychology we learn that:

- Auditory stream segregation depends on attention;
- Vision is altering audition;
- Active listening is correlated with sensory-motor & production;

Open Discussion on:

- ML for unsupervised mapping & features learning;
- Auditory scene analysis & features recognition through neural binding by synchrony with non-stationarity;
- On the importance of finding the significant time events without supervision;
- Sequences of spikes;
- Fast parallel computation with networks of spiking neurons on NPU's (Neural Processing Units).

