**1st Workshop on Linguistic and Neuro-Cognitive Resources (LiNCR)**
8 May 2018, co-located with LREC
The Phoenix Seagaia Resort, Miyazaki, Japan
Extended submission deadline: January 25, 2018

<http://lincr2018.cbs.polyu.edu.hk/LiNCR_workshop/>

lincr2018@gmail.com

**DESCRIPTION**
The LiNCR (pronounced as ‘linker’) workshop aims to provide a venue to explore a new generation of language resources which link and aggregate cognitive behavioural, neuroimaging measurement data to a shared set of richly annotated linguistic data. We invite experts on brain and language, on language resources, and on big data and machine learning to look at the potential for collaboration towards building multiply linked and richly aggregated Linguistic and Neuro-Cognitive Resources (LiNCR) as well as methodologies for processing the big data integrated in LiNCR. The participants are expected to work together to address format, methodology, as well as legal issues arising from this highly heterogeneous mix of linguistic, behavioral and physiological datasets (e.g. EEG, ERP, Eye-movement, electrodermal activity, fMRI, MEG, as well as behavioral norms).

The issues will include but not limit to the ontology for aggregation of neuro-cognitive data with linguistic facts, how to interpret experimental data when linked to additional linguistic facts, how to design experiments that allow same data sets to be shared by different experimental modality, how to link and normalize data from subjects with special cognitive conditions to the norms, how to link and aggregate multilingual data, and the stochastic solutions for data aggregation and learning. In addition to providing a forum for presenting existing LiNCRs as well as innovative research based on integrated heterogeneous datasets, we also welcome project notes and discussions on our proposal that may address issues and challenges arising from new types of LiNCRs. The workshop will also include breakout forums in form of round tables for initial discussion to form consortia for future collaboration.

**MOTIVATION AND TOPICS OF INTEREST**
Language resources to-date can be described as collections of snapshots of language production. They are in vitro and ready to be tested but do not contain any direct information on the cognitive processes that produced them. That is, the in vivo perspectives of language are missing from them. On the other hand, studies on the neurobiological basis of language processing made significant progresses based on collected neurological, neuroimaging and behavioral datasets. But these experimental data typically focus on strictly controlled stimuli annotated with a single linguistic feature. Hence, the potentialof linking richly annotated linguistic facts with experimental data has yet to be realised. The LiNCR workshop aims to bring together experts from computational, corpus, and neuro-cognitive linguistics to bridge this. We hope not only to herald in a new generation of language resources but also to open a new inter-disciplinary frontier in the exploration of human cognition based on LiNCRs.

Recent NLP research demonstrates that the incorporation of behavioural data (e.g. eye-tracking) improves modelling on a variety of language tasks (Long et al. 2017). Similarly, cognitive neuroscience studies can benefit from richly annotated linguistic data to uncover the relationship between brain regions and different language subprocesses (Wehbe et al. 2014; Huth et al. 2016). The time is ripe to bring these two fields together, and this workshop aims to advance research in this new frontier by exploring the following topics:

-Corpus selection (Mono/Multi-lingual)
-Ontology/framework for linking annotations in different modalities
-Linking experimental results to linguistically annotated data
-Design for multiple neuro-cognitive experimental platforms to share same linguistic data set
-Aggregation and normalization of data between population with special cognitive conditions with normal, and across different linguistic backgrounds
-Stochastic models for knowledge aggregation

**SUBMISSIONS**
We welcome contributions which address any of the aspects of a new generation of language resources that link and aggregate neurological behavioral measurement data to a shared set of richly annotated linguistic data. Multiple contributions are welcomed, but please note that you can only be first author for one contribution. In line with the LREC main conference policy, the submissions are not anonymous for LiNCR workshop as well.
In the START system, please specify whether you wish to have a poster or oral presentation. In both cases, the abstracts must consist of 3 to 4 pages (references excluded).

\*Full paper Presentation
-Single or multiple authors
-30-minute oral presentations (20 minutes presentation and 10 minutes QA)

\*'Lightning' poster presentation
-Single or multiple authors
-Two-minute presentation followed by poster session

Abstracts should be submitted in PDF format via Softconf START system([https://www.softconf.com/lrec2018/LiNCR/](https://secure-web.cisco.com/1f6T6xkZAmrzieiwBEiKozxEnBmp809SPeG5LbuQsTzoValLHaivFi33N63F85FiHjqMQ24sXXWaMoIxwUl8KVJpPftAkvvZbBrM-W5eJBkh8rPPD7xWzXkSaUrhs_Atflj0-ISUBSY9y3gkvIgkcBLN_kUoW5nKp2AfE1LVUlDdsRrMCdOuwFK_Bz8JoqZaj_OIzdu7hJ9tJXjOfgG_YvFk3JGvSAsK2zxxywbcI1isV_McfKYVIcNFGXedzKJcPGUg1mhegJfbTooz0V0Asrq1MkRMgtdctIdLdgigh4fh1xAN6OuVzxEuK8U4MnJc74Q3hLUuYttMD7oz68pLVXQ/https%3A//www.softconf.com/lrec2018/LiNCR/)) following the submission guidelines: [http://lrec2018.lrec-conf.org/en/submission/authors-kit/](http://secure-web.cisco.com/1qcFbprGoRjTj7QyvsVhO1ZnCP9xVxKipV5dfjXC-gpkNhjw-pBDyLbW4c31dM9dKpRORWnftnQXQhI3CwjXoN9LfyW18F9S0P7KCYJPCBs_wBo0LghQ1I2WRNlGWO_Z2rErzi-PeYn6aV9QNtRBwZYGvfIyFXrKTy66HLcWH9KAhjLhZruJ8HSifSZa12Dvg3o1qE-Oe3JpbpSO7rRH1kELzeJeBLrjTjgw-7RzVHs2l03dkljL2mSIPaTHveMJKGYQxSxV95PjismdGOtVb19AIiOz5EwpnIj9kFXQfElhFNaWn_tD2CE33KDUMj10q/http%3A//lrec2018)

**IDENTIFY, DESCRIBE AND SHARE YOUR LRS!**
Describing your LRs in the LRE Map is now a normal practice in the submission procedure of LREC (introduced in 2010 and adopted by other conferences). To continue the efforts initiated at LREC 2014 about “Sharing LRs” (data, tools, web-services, etc.), authors will have the possibility, when submitting a paper, to upload LRs in a special LREC repository. This effort of sharing LRs, linked to the LRE Map for their description, may become a new “regular” feature for conferences in our field, thus contributing to creating a common repository where everyone can deposit and share data.

As scientific work requires accurate citations of referenced work so as to allow the community to understand the whole context and also replicate the experiments conducted by other researchers, LREC 2018 endorses the need to uniquely Identify LRs through the use of the International Standard Language Resource Number (ISLRN, [www.islrn.org](http://secure-web.cisco.com/1OaQOMy3Xz9n4EDviwe2TQkrxEz4VRlB9uAOsU4ieHjBnuZe7GqFlIzpIcj-ycQuqTr9uFHYSjvDJI6OgQg98Z7DJtvhA1v5UShfNjXV_WOOO_uyhpWs4LS3L2z0FdwNXgiDI0r0drHXLBqVyjkQRp4AjGOmNpR-WJRvvuSkEXCfWmBP3_08g7yyko6HXii7FOY-OKayFu-zkJukSoRH1UL4sQAGHWuG0kUdcsjtJMyoQd9RwvVY11SM-To2jU2jhx0VZGjXsETVglg04qL3CgMDygZEwtVJo8W_BA0MKiHH6X3PaMwg94TBVdq3z4mhq3IWF1OkABmQbEpz-Anys3A/http%3A//www.islrn.org) ), a Persistent Unique Identifier to be assigned to each Language Resource. The assignment of ISLRNs to LRs cited in LREC papers will be offered at submission time.

**IMPORTANT DATES**

Extended submission deadline: January 25, 2018
Notification of acceptance: February 9, 2018
Camera ready due: February 23, 2018
Workshop at LREC: May 8, 2018

**ORGANIZING COMMITTEE**
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Qin Lu (The Hong Kong Polytechnic University)
Reinhold Kliegl (Potsdam University)
Shi-Kai Hsieh (National Taiwan University)

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All Organizing Committee Members, plus the following:
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Barry Devereux (Queen’s University Belfast, Co-Chair)
Adam Pease (Articulate Software)
Alex Huth (UC Berkeley)
Anna Korhonen (University of Cambridge)
Chetwyn Chan (The Hong Kong Polytechnic University)
Chia-Lin Lee (National Taiwan University)
Chia-ying Lee (Academia Sinica)
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