A standardised representation for non-parametric fMRI results
Camille Maumet¹, Guillaume Flandin², Martin Perez-Guevara³, Jean-Baptiste Poline⁴, Justin Rajendra⁵, Richard Reynolds⁵, Bertrand Thirion⁶, Thomas E. Nichols⁷


Introduction

Reuse of data collected and analysed at another site is becoming more prevalent in the neuroimaging community (cf. for example (Milham et al. 2017)) but this process usually relies on intensive data and metadata curation. Given the ever-increasing number of research datasets produced and shared, it is desirable to rely on standards that will enable automatic data and metadata retrieval for large-scale analyses (Wilkinson et al. 2016).

We recently introduced NIDM-Results (Maumet et al. 2016), a data model to represent and publish data and metadata created as part of a mass univariate neuroimaging study (typically functional magnetic resonance imaging).

Here we extend this model to allow for the representation of non-parametric analyses and we introduce a JSON API that will facilitate export into NIDM-Results.

Results

Exporting neuroimaging results from SPM, SnPM and FSL. NIDM-Results pack is available at: http://neurovault.org/collections/1692/fsl_group_ols.nidm.

Example of JSON export


You can help!

1. Build an exporter
Your neuroimaging tool → JSON file → NIDM-Results

2. Comment on the NIDM JSON specification
http://goo.gl/92f9Pr

3. Export your SPM and/or FSL results using NIDM-Results http://nidm.nidash.org/getting-started/ and let us know your feedback!

Join the community

Are you interested in bringing your contributions to NIDM? Would you like to hear more? We always welcome new contributors!

We meet every week by videoconference on Mondays at 8-9am PDT / 11am-12pm EDT / 4-5pm BST.

For more information, please email us at incf-nidash-nidm@googlegroups.com

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References