

Dear Professor Jermaine,

Please find enclosed the manuscript “Expressive power of linear algebra query languages”, which was invited to be submitted to ACM Transaction on Database Systems as one of the best papers of PODS 2021 conference. We also did our best effort to make the submission double blind by using anonymous citations.

As per requirements listed on the journal website, this cover letter includes the list of authors, a conflict of interest list, and a statement on prior publication policy.

The required details are as follows:

Full list of authors:

- Floris Geerts
- Thomas Muñoz
- Cristian Riveros
- Domagoj Vrgoč

Conflicts of interest according to category:

- *Known family relationship as spouse, child, sibling, or parent:* None that could review the manuscript.
- *Business or professional partnership:* Wenfei Fan, Peter Buneman.
- *Past or present association as thesis advisor or thesis student:* Michael Benedikt, Marcelo Arenas, Jan Van den Bussche, Leonid Libkin, Alejandro Grez.
- *Collaboration within four years:* Pablo Barceló, Wim Martens, Egor V. Kostylev, Renzo Angles, Aidan Hogan, Juan L. Reutter, Adrián Soto, Matthieu Mosser, Fernando Pieressa, Francisco Maturana, Jorge Baier, Dietrich Daroch, Pierre Bourhis, Fernando Suárez, Matias Junemann, Felipe Pezoa, Miguel Romero, Tony Tan, Filip Mazowiecki, Martín Muñoz, Nathanaël Fijalkow, James Worrell, Gabriele Puppis, Slawek Staworko, Daniel Hernández, Carlos Rojas, Enzo Zerega, Jan Van den Bussche, Guillermo A. Pérez, Maksimilian Ryschkov, Leopoldo E. Bertossi, Joeri Rammelaere, Giansalvatore Mecca, Paolo Papotti, Donatello Santoro, Robert Brijder, Timmy Weerwag, Maarten Van den Heuvel, Peter Ivanov, Wolfgang Gatterbauer, Martin Theobald, Bart Kuijpers, Yang Cao, Ping Lu, Fabian Pijcke, Jef Wijsen, Bart Goethals.
- *Co-editing within two years:* N/A.
- *Other:* Jorge Pérez, Claudio Gutierrez.

Anonymous citations: The only anonymous citation is the original conference version of the paper published as:

- *Floris Geerts, Thomas Muñoz, Cristian Riveros, Domagoj Vrgoč. 2021. Expressive power of linear algebra query languages. PODS 2021, pages 342–354.*

Statement on Prior Publication Policy: The paper *Floris Geerts, Thomas Muñoz, Cristian Riveros, Domagoj Vrgoč. 2021. Expressive power of linear algebra query languages. PODS 2021, pages 342–354* falls into the category (c) of the TODS Prior Publication Policy. As discussed in the Introduction to the manuscript, the work we are submitting is a full version of the listed conference proceedings paper,

and we consider it to be a major value-added extension, as required by the submission guidelines. In the Introduction to the paper we also listed the new contributions of this manuscript, and why they bring more than 30% of new material.

We confirm that this manuscript has not been published elsewhere and is not under consideration by another journal.

Please address all correspondence to:

Floris Geerts
University of Antwerp
Campus Middelheim
Middelheimlaan 1
2020 Antwerpen, BEL
floris.geerts@uantwerp.be

Best Regards,
The authors.