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The Function Hub: an implementation-independent read/write function description repository

by Ben De Meester, Lander Noterman, Ruben Verborgh, and Anastasia Dimou

Functions are essential building blocks of any (computer) information system. However, development efforts to implement these functions are fragmented: a function has multiple implementations, each within a specific development context. Manual effort is needed handling various search interfaces and access methods to find the desired function, its metadata (if any), and associated implementations. This laborious process inhibits discovery, and thus reuse. Uniform, implementation-independent access is needed. We demo the Function Hub, available online at <https://fno.io/hub>: a Web application using a semantic interoperable model to map function descriptions to (multiple) implementations. The Function Hub allows editing and discovering function description metadata, and add information about alternative implementations. This way, the Function Hub enables users to discover relevant functions independently of their implementation, and to link to original published implementations.

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- IEEE** B. De Meester, L. Noterman, R. Verborgh, and A. Dimou, "The Function Hub: an implementation-independent read/write function description repository," in *Proceedings of the 16th ESWC: Posters and Demos*, 2019.
- ACM** Ben De Meester, Lander Noterman, Ruben Verborgh, and Anastasia Dimou. 2019. The Function Hub: an implementation-independent read/write function description repository. In *Proceedings of the 16th ESWC: Posters and Demos*.
- LNCS** De Meester, B., Noterman, L., Verborgh, R., Dimou, A.: The Function Hub: an implementation-independent read/write function description repository. In: *Proceedings of the 16th eswc: Posters and Demos (2019)*.
- APA** De Meester, B., Noterman, L., Verborgh, R., & Dimou, A. (2019). The Function Hub: an implementation-independent read/write function description repository. In *Proceedings of the 16th ESWC: Posters and Demos*.
- MLA** De Meester, Ben, et al. "The Function Hub: an Implementation-Independent Read/Write Function Description Repository." *Proceedings of the 16th ESWC: Posters and Demos*, 2019.

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