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Design and development of a comprehensive data management platform for cytomics: cytomicsDB

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Citation

Larios Vargas, E. (2015, November 25). *Design and development of a comprehensive data management platform for cytomics: cytomicsDB*. Retrieved from <https://hdl.handle.net/1887/36426>

Version: Not Applicable (or Unknown)

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Author: Larios Vargas, Enrique

Title: Design and development of a comprehensive data management platform for cytomics : cytomicsDB

Issue Date: 2015-11-25

List of Publications

- K. Yan, E. Larios, S. LeDévédec, B. van de Water and F. J. Verbeek. **Automation in cytomics: Systematic solution for image analysis and management in high throughput sequences.** In Proceedings IEEE Conf. Engineering and Technology (CET 2011), volume 7, pages 195–198. 2011.
- E. Larios, Y. Zhang, K. Yan, Z. Di, S. LeDévédec, F. Groffen, and F.J. Verbeek. **Automation in cytomics: A modern rdbms based platform for image analysis and management in high-throughput screening experiments.** In Proceedings of the 1st Int. Conf. on Health Information Science, volume 7231, pages 76–87, 2012.
- E. Larios, Y. Zhang, L. Cao, and F.J. Verbeek. **Cytomicsdb: A metadata-based storage and retrieval approach for high-throughput screening experiments.** Pattern Recognition in Bioinformatics (PRIB 2014). Lecture Notes in Computer Science, vol. 8626, Springer International Publishing, pages 72–84. 2014.
- E. Larios, Z. Xia, J. Slob and F. J. Verbeek. **A semantic-based metadata validation for an automated High-Throughput Screening workflow: Case study in CytomicsDB.** NETTAB 2015 - Integrative Bioinformatics 2015. (Submitted).
- E. Larios, D. van Es, K. Rietveld and F. J. Verbeek. **Cluster integration in CytomicsDB.** (Manuscript in preparation).
- B. Karasneh, D. Stikkorum, E. Larios, M.R.V. Chaudron. **Assessing The Quality of UML Class Diagrams: A Comparative Study Between Experts and Students.** Educators Symposium, ACM/IEEE 18th International Conference on Model Driven Engineering Languages and Systems 2015.

About the Author

Enrique Larios Vargas was born in 1977 in Lima, Peru. He studied at the Pontificia Universidad Catolica del Peru (PUCP) receiving a BSc degree in Informatic Engineering in 2000. Directly after his bachelor studies he started working as a project engineer in a telecommunications consulting firm. After working in this sector for 6 years, he started working as a part time lecturer in the Telecommunications Engineering department at PUCP. In 2006, he started his Master education at Universidad Nacional Mayor de San Marcos in Lima, Peru. During his master education he specialized in ICT Management and received the MSc degree in the end of 2008. In the same year, he was promoted to Assistant Professor and responsible of the Software Engineering specialization at the Telecommunications Engineering department at PUCP.

In 2010, Enrique applied to the BAPE Erasmus Mundus program for pursuing PhD studies, he was granted with a scholarship and admitted to Leiden University as a PhD student in the Section Imaging and BioInformatics at Leiden Institute of Advanced Computer Science (LIACS). Under the supervision of Dr. Fons J. Verbeek his research focused on the development of a comprehensive data management platform for Cytomics. His research project was developed in close collaboration between the Division of Toxicology of the Leiden Academic Centre for Drug Research (LACDR) and the Database Architecture Group at Centrum Wiskunde and Informatica (CWI) in Amsterdam. During the last years of his PhD studies he also worked as a lecturer in the Software Engineering course in the Master ICT in Business at Leiden University. His professional experience as an ICT engineer and scientist provide him with a broad perspective useful in the academy and business sector.