

Mohamed Reda Bouadjenek – Ph.D, Lecturer (Assistant Professor)

Contact

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Interests

Information Retrieval, Biomedical Text Mining, Social Network Analysis, Machine Learning, Deep Learning, Recommender Systems, Databases, Data Quality, Data Analysis and Bioinformatics.

Education

University of Paris-Saclay, Versailles, France
Ph.D., Computer Science (Dec. 2013)
• Supervisors: Mokrane Bouzeghoub and Hakim Hacid
• Research Field: *Information Retrieval and Machine Learning*

University of Paris-Saclay, Versailles, France
M.S., Computer Science (Sep. 2009)
• Supervisors: Mokrane Bouzeghoub
• Major: *Databases and Distributed Information Systems*

University of Sciences and Technology Houari Boumediene, Algiers, Algeria
B.S., Computer Science (Jun. 2008)
• Major: *Databases and Information Systems*

Employment

Deakin University, Geelong, VIC, Australia. • <i>Lecturer (Assistant Professor)</i> , Applied Artificial Intelligence.	Nov. 2019 – Present
University of Toronto, Toronto, ON, Canada. • <i>Research Fellow</i> . Supervisor: Scott Sanner.	Nov. 2017 – Oct. 2019
The University of Melbourne, Melbourne, VIC, Australia. • <i>Research Fellow</i> . Supervisor: Karin Verspoor and Justin Zobel.	Sep. 2015 – Sep. 2017
Oregon State University, Corvallis, OR, USA. • <i>Visiting Researcher</i> . Supervisor: Scott Sanner.	Jul. 2015 – Aug. 2015
INRIA, Montpellier, France. • <i>Postdoc Researcher</i> . Supervisors: Esther Pacitti and Patrick Valduriez.	Jan. 2014 – Jul. 2015
UCSB, Santa Barbara, CA, USA. • <i>Visiting Researcher</i> . Supervisor: Amr El Abbadi.	Nov. 2014 – Dec. 2014
NICTA, Canberra, ACT, Australia. • <i>Visiting Researcher</i> . Supervisor: Scott Sanner.	Aug. 2013 – Dec. 2013
Alcatel-Lucent Bell Labs, Nozay, France. • <i>Research Engineer</i> . Supervisor: Hakim Hacid.	Mar. 2010 – Mar. 2013
DAVID Lab, University of Paris-Saclay, Versailles, France. • <i>Master Student Internship</i> . Supervisor: Mokrane Bouzeghoub.	Apr. 2009 – Sep. 2009

Selected Publications

– B. Zhang, S. Sanner, M. R. Bouadjenek, and S. Gupta. **Bayesian Networks for Data Integration in the Absence of Foreign Keys**. IEEE Transactions on Knowledge and Data Engineering, vol. 32, no. 4, pp. 803-808, 1 April. 2020. <http://dx.doi.org/10.1109/TKDE.2019.2940019>.

- S. Gupta, D. Ko, M.R Bouadjeneq, S. Sanner, A. Chong, P. Austin, M. Koh. **Evaluation of Machine Learning Algorithms for Predicting Readmission after Acute Myocardial Infarction Using Routinely Collected Clinical Data** *Canadian Journal of Cardiology*. Journal of Canadian Journal of Cardiology. Volume 36, Issue 6, June 2020, Pages 878-885, ISSN 0828-282X. <https://doi.org/10.1016/j.cjca.2019.10.023>.
- M. R. Bouadjeneq, J. Zobel, and K. Verspoor. **Automated Assessment of Biological Database Assertions Using the Scientific Literature**. *BMC Bioinformatics* 2019 20:216.
- Y. Wang, G. Wu, M.R. Bouadjeneq, and S. Sanner. **A Novel Regularizer for Temporally Stable Learning with an Application to Twitter Topic Classification**. *Proceedings of the 2019 SIAM International Conference on Data Mining*, pp. 217-225, Calgary, Alberta.
- M. R. Bouadjeneq, H. Hacid, M. Bouzeghoub. **Personalized Social Query Expansion Using Social Annotations**. *Transactions on Large-Scale Data- and Knowledge-Centered Systems XL. Lecture Notes in Computer Science*, vol 11360, 2019. Springer, Berlin, Heidelberg. 1-25. https://doi.org/10.1007/978-3-662-58664-8_1.
- G. Wu, M. R. Bouadjeneq, and S. Sanner. **One-Class Collaborative Filtering with the Queryable Variational Autoencode**. *The 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval, SIGIR 2019*, Pages 921–924.
- M. R. Bouadjeneq, K. Verspoor, and J. Zobel. **Automated Detection of Records in Biological Sequence Databases that are Inconsistent with the Literature**. *Journal of Biomedical Informatics*, July 2017, ISSN 1532-0464, <https://doi.org/10.1016/j.jbi.2017.06.015>.
- M. R. Bouadjeneq, and S. Sanner. **Relevance-driven Clustering for Visual Information Retrieval on Twitter**. In *Proceedings of the 4th ACM Conference on Human Information Interaction & Retrieval, CHIIR'19*, pages 349-353, New York, NY, USA, 2019. ACM.
- M. R. Bouadjeneq and K. Verspoor. **Multi-Field Query Expansion is Effective for Biomedical Dataset Retrieval**. *Database: The Journal of Biological Databases and Curation (Oxford)* 2017, 2017 (1): bax062, <https://doi.org/10.1093/database/bax062>.
- M. R. Bouadjeneq, K. Verspoor, and J. Zobel. **Literature Consistency of Bioinformatics Sequence Databases is Effective for Assessing Record Quality**. *Database (Oxford)* 2017, 2017 (1): bax021, <https://doi.org/10.1093/database/bax021>.
- M. R. Bouadjeneq, H. Hacid, M. Bouzeghoub, and A. Vakali. **PerSaDoR: Personalized Social Document Representation for Improving Web Search**. *Journal of Information Sciences* Volume 369, 10 November 2016, ISSN 0020-0255, <http://dx.doi.org/10.1016/j.ins.2016.07.046>.
- M. R. Bouadjeneq, H. Hacid, M. Bouzeghoub. **Social Networks and Information Retrieval, How Are They Converging? A Survey, a Taxonomy and an Analysis of Social Information Retrieval Approaches and Platforms**. *Journal of Information Systems* Volume 56, March 2016, ISSN 0306-4379, <http://dx.doi.org/10.1016/j.is.2015.07.008>.
- M. R. Bouadjeneq, S. Sanner, G. Ferraro. **A Study of Query Reformulation for Patent Prior Art Search with Partial Patent Applications**. In the *Proceedings of the Fifteen International Conference on Artificial Intelligence and Law (ICAIL '15)*, pages 23-32.

Skills

- **Operating Systems:** Windows 9X/XP/Vista/7, Linux, and MacOSX.
- **Programming Languages:** C, C++, C#, Pascal, Object Pascal, JAVA and XML.
- **Script Languages:** JavaScript, Bash, and Python.
- **Compilers:** GNU GCC, Borland Delphi, NetBeans, Eclipse and Microsoft Visual C++.
- **Databases:** SQL language, and practice of the SQL Server, MySQL, and PostgreSQL DBMSs.
- **Conception and Modeling:** UML, Merise, and E/R (entity-relation).
- **Frameworks and platforms:** Jung, Prefuse, PeerSim, Hadoop and Apache Lucene.

Languages

- **English:** Fluent , **French:** Native language, **Arabic:** Native language.