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

Contact

Address: Deakin University, School of Information Technology
Geelong Waurn Ponds Campus, KA3.250, Australia
Tel: +61 352 278 380
E-mail: rbouadjenek@gmail.com (Perso) | reda.bouadjenek@deakin.edu.au (Pro)
WWW: `https://personal-sites.deakin.edu.au/~mohamedb/`

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. **Nov. 2019 – Present**
- *Lecturer (Assistant Professor)*, Applied Artificial Intelligence.

University of Toronto, Toronto, ON, Canada. **Nov. 2017 – Oct. 2019**
- *Research Fellow*. Supervisor: Scott Sanner.

The University of Melbourne, Melbourne, VIC, Australia. **Sep. 2015 – Sep. 2017**
- *Research Fellow*. Supervisor: Karin Verspoor and Justin Zobel.

Oregon State University, Corvallis, OR, USA. **Jul. 2015 – Aug. 2015**
- *Visiting Researcher*. Supervisor: Scott Sanner.

INRIA, Montpellier, France. **Jan. 2014 – Jul. 2015**
- *Postdoc Researcher*. Supervisors: Esther Pacitti and Patrick Valduriez.

UCSB, Santa Barbara, CA, USA. **Nov. 2014 – Dec. 2014**
- *Visiting Researcher*. Supervisor: Amr El Abbadi.

NICTA, Canberra, ACT, Australia. **Aug. 2013 – Dec. 2013**
- *Visiting Researcher*. Supervisor: Scott Sanner.

Alcatel-Lucent Bell Labs, Nozay, France. **Mar. 2010 – Mar. 2013**
- *Research Engineer*. Supervisor: Hakim Hacid.

DAVID Lab, University of Paris-Saclay, Versailles, France. **Apr. 2009 – Sep. 2009**
- *Master Student Internship*. Supervisor: Mokrane Bouzeghoub.

Selected Publications

– M. R. Bouadjenek, S. Sanner, and Y. Du. **Relevance- and Interface-driven Clustering for Visual Information Retrieval.** Journal of Information Systems Volume 94, December 2020, ISSN 0306-4379, https://doi.org/10.1016/j.is.2020.101592.

- 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 Bouadjenek, 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. Bouadjenek, 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. Bouadjenek, 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. Bouadjenek, 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. Bouadjenek, 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. Bouadjenek, 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. Bouadjenek, 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. Bouadjenek 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. Bouadjenek, 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. Bouadjenek, 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. Bouadjenek, 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. Bouadjenek, 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.