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

Deakin University, Geelong, Australia
Graduate Certificate of Higher Education for Learning and Teaching (Jun. 2021)

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

- S. Gupta, A. Robels-Kelly, M.R. Bouadjenek, **"Feature Extraction Functions for Neural Logic Rule Learning"**, In *Structural, Syntactic, and Statistical Pattern Recognition (S+SSPR)*, 2020.
- M. R. Bouadjenek, S. Sanner, Y. Du, **"Relevance- and Interface-driven Clustering for Visual Information Retrieval"**, In *Information Systems*, Vol 94, 101592, 2020.
- B. Zhang, S. Sanner, M. R. Bouadjenek, S. Gupta, **"Bayesian Networks for Data Integration in the Absence of Foreign Keys"**, In *IEEE Transactions on Knowledge and Data Engineering*, Vol 32, 803-808, 2020.
- 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"**, In *Canadian Journal of Cardiology*, Vol 36, 878-885, 2020.
- M. R. Bouadjenek, J. Zobel, K. Verspoor, **"Automated Assessment of Biological Database Assertions Using the Scientific Literature"**, In *BMC Bioinformatics*, Vol 20, 216, 2019.
- Y. Wang, G. Wu, M.R. Bouadjenek, S. Sanner, **"A Novel Regularizer for Temporally Stable Learning with an Application to Twitter Topic Classification"**, In *The SIAM International Conference on Data Mining (SDM)*, 217-225, 2019.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub, **"Personalized Social Query Expansion Using Social Annotations"**, In *Transactions on Large-Scale Data- and Knowledge-Centered Systems*, Vol 11360, 1-25, 2019.
- G. Wu, M. R. Bouadjenek, S. Sanner. **One-Class Collaborative Filtering with the Queryable Variational Autoencode.** In *The 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 921–924, 2019.
- M. R. Bouadjenek, K. Verspoor, J. Zobel, **"Automated Detection of Records in Biological Sequence Databases that are Inconsistent with the Literature"**, In *Journal of Biomedical Informatics*, Vol 71, 229-240, 2017.
- M. R. Bouadjenek, S. Sanner, **"Relevance-driven Clustering for Visual Information Retrieval on Twitter"**, In *The 4th ACM Conference on Human Information Interaction & Retrieval (CHIIR)*, 349-353, 2019.
- M. R. Bouadjenek and K. Verspoor, **"Multi-Field Query Expansion is Effective for Biomedical Dataset Retrieval"**, In *Database: The Journal of Biological Databases and Curation (Oxford)*, Vol 2017, bax062, 2017.
- M. R. Bouadjenek, K. Verspoor, J. Zobel. **"Literature Consistency of Bioinformatics Sequence Databases is Effective for Assessing Record Quality"**, In *Database: The Journal of Biological Databases and Curation (Oxford)*, Vol 2017, bax021, 2017.
- Z. Iman, S. Sanner, M. R. Bouadjenek, L. Xie. **"A Longitudinal Study of Topic Classification on Twitter"**, In *The 11th International AAAI Conference on Web and Social Media (ICWSM)*, 552-555, 2017.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub, A. Vakali. **"PerSaDoR: Personalized Social Document Representation for Improving Web Search"**, In *Information Sciences*, Vol 369, 614-633, 2016.
- 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"**, In *Information Systems*, Vol 56, 1-18, 2016.
- M. R. Bouadjenek, S. Sanner, G. Ferraro. **"A Study of Query Reformulation for Patent Prior Art Search with Partial Patent Applications"**, In *The 15th International Conference on Artificial Intelligence and Law (ICAIL)*, 23-32, 2015.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub, and A. Vakali. **"Using Social Annotations to Enhance Document Representation for Personalized Search"**, In *The 36th International ACM SIGIR conference on Research and development in information retrieval (SIGIR)*, 1049–1052, 2013.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub. **"SoPRa: A New Social Personalized Ranking Function for Improving Web Search"**, In *The 36th International ACM SIGIR conference on Research and development in information retrieval (SIGIR)*, 861–864, 2013.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub. **"LAICOS: An Open Source Platform for Personalized Social Web Search"**, In *The 19th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 1446-1449, 2013.

Languages

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