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

Contact

Address: Deakin University, School of Information Technology
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Citizenship Algerian Citizen; French Citizen; Canadian Permanent Resident; Australian Permanent Resident.

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

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.

External Grant Funding

- **Co-PI, Defence Science and Technology: AI for Decision Making Initiative (2021).**
  Title: *Utilizing Extractive-Abstractive Summarization for Understanding the Narrative of Social Media Users from Multimodal Data* (AUD$20K).

Selected Publications

- S. Lyu, A. Rana, S. Sanner, M.R. Bouadjenek, **"A Workflow Analysis of Context-driven Conversational Recommendation"**, In *Proceedings of The Web Conference (WWW)*, 866–877, 2021.
- M. R. Bouadjenek, S. Sanner, Y. Du, **"Relevance- and Interface-driven Clustering for Visual Information Retrieval"**, In *Information Systems*, Vol 94, 101592, 2020.
- 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)*, 98–107, 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, 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, **"Learning Biological Sequence Types Using the Literature"**, In *The Proceedings of the 26th ACM Conference on Information and Knowledge Management (CIKM)*, 1991–1994, 2017.
- 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*, Volume 71, 229–240, 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.

Languages

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