

Curriculum Vitæ

Dr. Bilel Elayeb, Ph.D., HDR
Associate Professor in Computer Science
Head of the College Research Unit



1. PERSONAL INFORMATION

- **Date of Birth:** February 25th, 1978 in Tataouine, Tunisia.
- **Nationality:** Tunisian.
- **Address:** Emirates Colleges of Technology, P.O. Box. 41009 Abu Dhabi, UAE.
- **Marital status :** Married
- **Phones:** Mobile : (+971) -0-566392388 / Home : (+971) -0-26589623
- **E-Mails :** elayeb_bilel@yahoo.fr, Bilel.Elayeb@riadi.rnu.tn, Bilel.Elayeb@ect.ac.ae

2. EDUCATION

- 2010-2018:
- University Habilitation to Direct Research (HDR) in Computer Science.
 - University: The National School of Computer Science (ENSI), Tunisia.
 - Laboratory: RIADI Research Lab., ENSI, Manouba University, Tunisia.
 - Title of HDR Thesis: « Possibilistic Information Retrieval: From Query Disambiguation and Expansion Towards the Reliability of Searched Information ».
 - <https://tel.archives-ouvertes.fr/tel-01964466/document>
 - Defense: December 15th, 2018.
 - Jury: Pr. Henda Hajjami Ben Ghézala (President), Pr. Lynda Tamine (Reviewer), Pr. Chiraz Latiri (Reviewer), Pr. Rim Faiz (Member), Pr. Narjès Bellamine Ben Saoud (Member).
- 2005-2009:
- Ph.D. Thesis in Computer Science (Artificial Intelligence)
 - University: The National Polytechnic Institute of Toulouse, France.
 - Laboratory: Informatics Research Institute of Toulouse (IRIT), France.
 - Title of Ph.D. Thesis: « SARIPOD: An Intelligent Possibilistic Web Information Retrieval using MultiAgent System ».
 - <https://hal.archives-ouvertes.fr/tel-02042299/document>

- Defense: June 26th, 2009.
 - Jury: Pr. Jean-Paul Haton (President), Pr. Salem Benferhat (Reviewer), Pr. Henda Hajjami Ben Ghézala (Reviewer), Pr. Mohamed Ben Ahmed (Supervisor), Dr. Andréas Herzig (Supervisor), Dr. Fabrice Evrard (Member), Dr. Montaceur Zaghdoud (Member).
 - Mention: very honorable
- 2002-2004:
- Master Thesis in Computer Science.
 - Name of school: The National School of Computer Science Tunisia (ENSI).
 - Laboratory: RIADI-ENSI (Tunisia).
 - Title of Master Thesis: « Proposal for an agent security system based on the Knowledge Query and Manipulation Language (KQML) ».
 - Defense: October 9th, 2004
 - Mention: honorable
- 1999-2002:
- Engineering Diploma
 - Name of school: The National School of Computer Science (ENSI), Tunisia.
 - Laboratory: RIADI-ENSI (Tunisia).
 - Title of Engineer Project: « The Development of a decision-making tool for the electronic documents management ».
 - Defense: July 10th, 2002.
 - Mention: honorable
- 1996-1999:
- Diploma (Option: Maths-physics)
 - Name of Faculty: Faculty of Science of Tunis, Tunisia.
 - Mention: honorable.
- 1989-1996:
- High School Graduation Diploma (Option: Mathematics)
 - Name of School: Secondary School of Tataouine, Tunisia.

3. RESEARCH INTERESTS

- Artificial Intelligence,
- Machine Learning,
- Mono-, Multi and Cross-Language Information Retrieval,
- Mono-, Multi and Cross-Language Word Sense Disambiguation,
- Query Disambiguation, Translation and Expansion,
- Computational Linguistics,

- Analogical NLP and IR,
- Arabic NLP and IR,
- Information Reliability,
- Knowledge Extraction,
- Possibility and Probability theories.

4. PUBLICATIONS

DBLP: <http://dblp2.uni-trier.de/pers/hd/e/Elayeb:Bilel>

Google Scholar: <https://scholar.google.com/citations?user=EFuyuCAAAAAAJ&hl=en>

Research Gate: https://www.researchgate.net/profile/Bilel_Elayeb

JARIR: <http://www.jarir.tn/bilelelayeb>

4.1. INTERNATIONAL REFEREED JOURNALS (12 papers)

1. **Bilel Elayeb**, “Arabic Word Sense Disambiguation: A Review”. In Artificial Intelligence Review, Springer, vol. 52, issue 4, pp. 1-58, **2019**. [IF: 5.095 in 2018; Rank: B]¹. DOI: 10.1007/s10462-018-9622-6
2. **Bilel Elayeb**, Wiem Ben Romdhane, Narjès Bellamine Ben Saoud, “Towards a New Possibilistic Query Translation Tool for Cross-Language Information Retrieval”. Multimedia Tools and Applications, Springer, vol. 77, issue 2, pp. 2423-2465, **2018**. DOI: 10.1007/s11042-017-4398-2 [IF: 2.101 in 2018; Rank: B]
3. **Bilel Elayeb** and Ibrahim Bounhas, “Arabic Cross-Language Information Retrieval: A Review”. In ACM Transactions on Asian and Low-Resource Language Information Processing (ACM-TALLIP), ACM Press, vol. 15, issue 3, 18:1-18:44, **2016**. [Rank: B]. DOI: <http://dx.doi.org/10.1145/2789210>
4. **Bilel Elayeb**, Ibrahim Bounhas, Oussama Ben Khiroun, Fabrice Evrard, and Narjès Bellamine Ben Saoud, “A Comparative Study between Possibilistic and Probabilistic Approaches for Monolingual Word Sense Disambiguation”. In Knowledge and Information Systems (KAIS), Springer London, vol. 44, issue 1, pp. 91-126, **2015**. [IF: 2.225 in 2013; Rank: B]. DOI: 10.1007/s10115-014-0753-z

¹Journal Ranking Link : <http://portal.core.edu.au/jnl-ranks/>

5. Ibrahim Bounhas, Raja Ayed, **Bilel Elayeb** and Narjès Bellamine Ben Saoud, “A hybrid possibilistic approach for Arabic full morphological disambiguation”. In *Data & Knowledge Engineering (DKE)*, Elsevier, vol. 100, Part B, pp. 240-254, **2015**. [IF : **1.115 in 2015**; Rank: **B**]. DOI: doi:10.1016/j.datak.2015.06.008
6. Ibrahim Bounhas, **Bilel Elayeb**, Fabrice Evrard, and Yahya Slimani, “Information reliability evaluation: from Arabic storytelling to computer sciences”. In *ACM Journal on Computing and Cultural Heritage (ACM-JOCCH)*, ACM Press, vol. 8, No. 3, Article 14, 33 pages, **2015**. DOI: <http://dx.doi.org/10.1145/2693847>
7. Ibrahim Bounhas, Raja Ayed, **Bilel Elayeb**, Fabrice Evrard and Narjès Bellamine Ben Saoud, “Experimenting a discriminative possibilistic classifier with reweighting model for Arabic morphological disambiguation”. In *Computer Speech and Language (CSL)*, Elsevier, 33(1), pp. 67-87, **2015**. [IF: **1.753 in 2015**; Rank: **A**]. DOI: <http://dx.doi.org/10.1016/j.csl.2014.12.005>
8. **Bilel Elayeb**, Ibrahim Bounhas, Oussama Ben Khiroun, Fabrice Evrard, and Narjès Bellamine Ben Saoud, “Towards a Possibilistic Information Retrieval System Using Semantic Query Expansion”. In *International Journal of Intelligent Information Technologies*, IGI Global, Hershey, USA, vol. 7, issue 4, pp.1-25, **2011**. [Rank: **C**]. DOI: 10.4018/jiit.2011100101
9. Ibrahim Bounhas, **Bilel Elayeb**, Fabrice Evrard, and Yahya Slimani, “ArabOnto: Experimenting a new distributional approach for Building Arabic Ontological Resources”. In *International Journal of Metadata, Semantics and Ontologies*, Inderscience, vol. 6, issue 2, pp. 81-95, **2011**. [Rank: **C**]. DOI: 10.1504/IJMSO.2011.046578
10. Ibrahim Bounhas, **Bilel Elayeb**, Fabrice Evrard, and Yahya Slimani, “Organizing contextual knowledge for arabic text disambiguation and terminology extraction”. In *Knowledge Organization Journal*, Ergon Verlag of Würzburg, vol. 38, issue 6, pp. 473-490, **2011**. [IF: **0.448 in 2014**; Rank: **A**]. ISSN 0943–7444
11. Ibrahim Bounhas, **Bilel Elayeb**, Fabrice Evrard, and Yahya Slimani, “Toward a computer study of the reliability of Arabic stories”. In *Journal of the American Society for Information Science and Technology*, Wiley, vol. 61, issue 8, pp. 1686–1705, **2010**. [IF: **2.081 in 2013**; Rank: **A***]. DOI: 10.1002/asi.21356
12. **Bilel Elayeb**, Fabrice Evrard, Montaceur Zaghdoud, and Mohamed Ben Ahmed, “Towards an Intelligent Possibilistic Web Information Retrieval using Multiagent System”. In *Interactive Technology and Smart Education (ITSE)*, Special issue: New learning support

systems, Emerald Group Publishing Limited, vol. 6, issue 1, pp. 40-59, **2009**. DOI: <http://dx.doi.org/10.1108/17415650910965191>

4.2. BOOK CHAPTER (1 paper)

1. **Bilel Elayeb**, Ibrahim Bounhas, Oussama Ben Khiroun and Narjès Bellamine Ben Saoud, “Combining Semantic Query Disambiguation and Expansion to Improve Intelligent Information Retrieval”. In: Duval B., van den Herik J., Loiseau S., and Filipe J. (eds.), ICAART2014 Revised Selected papers, LNAI 8946, pp. 280–295, **2015**. DOI: 10.1007/978-3-319-25210-0_17

4.3. CONFERENCE PROCEEDINGS (34 papers)

- 1 Myriam Bounhas and **Bilel Elayeb**, “Analogy-based Matching Model for Domain-Specific Information Retrieval”. In Proceedings of the 11th International Conference on Agents and Artificial Intelligence (ICAART), Prague, Czech Republic, pp. 496-505, **2019**.
- 2 Wiem Ben Romdhane, **Bilel Elayeb** and Narjès Bellamine Ben Saoud, “A Comparative Study Between Possibilistic and Probabilistic Approaches for Query Translation Disambiguation”. In Proceedings of the 11th International Conference on Agents and Artificial Intelligence (ICAART), NLPinAI session, Prague, Czech Republic, pp. 932-943, **2019**.
- 3 Wiem Ben Romdhane, **Bilel Elayeb** and Ben Saoud, N. Bellamine, “Automatic Query Translation Disambiguation using Bilingual Proximity-based Approach”. In: OTM Conferences & Workshops: Proceedings of the 7th International Workshop on Methods, Evaluation, Tools and Applications for the Creation and Consumption of Structured Data for the e-Society (Meta4eS 2018). Springer, LNCS 11231, pp. 218-229, Valletta (Malta), 22-26 October, **2018**.
- 4 Amina Chouigui, Oussama Ben Khiroun and **Bilel Elayeb**, “Related Terms Extraction from Arabic News Corpus using Word Embedding”. In: OTM Conferences & Workshops: Proceedings of the 7th International Workshop on Methods, Evaluation, Tools and Applications for the Creation and Consumption of Structured Data for the e-Society (Meta4eS 2018). Springer, LNCS 11231, pp. 230-240, Valletta (Malta), 22-26 October, **2018**.
- 5 Raja Ayed, Amina Chouigui and **Bilel Elayeb**, “A New Morphological Annotation Tool for Arabic Texts”, in Proceedings of the 15th ACS/IEEE International Conference on

- Computer Systems and Applications, IEEE Computer Society, pp. 1-6, October 28th to November 1st, **2018**.
- 6 Raja Ayed, **Bilel Elayeb** and Ben Saoud, N. Bellamine, “Possibilistic Morphological Disambiguation of Structured Hadiths Arabic Texts Using Semantic Knowledge”. In Proceedings of the 10th International Conference on Agents and Artificial Intelligence (ICAART 2018), Funchal, Madeira, Portugal, pp. 565-572, **2018**.
 - 7 Oussama Ben Khiroun, **Bilel Elayeb** and Ben Saoud, N. Bellamine, “Towards a Query Translation Disambiguation Approach using Possibility Theory”. In Proceedings of the 10th International Conference on Agents and Artificial Intelligence, Funchal, Madeira, Portugal, pp. 606-613, **2018**.
 - 8 Amina Chouigui, Oussama Ben Khiroun and **Bilel Elayeb**, “A TF-IDF and Co-occurrence Based Approach for Events Extraction from Arabic News Corpus”. In Proceedings of the 23th International Conference on Application of Natural Language to Information Systems (NLDB). Springer International Publishing, LNCS 10859, Paris, France, pp. 2018: 272-280, **2018**.
 - 9 Wiem Ben Romdhane, **Bilel Elayeb** and Narjès Bellamine Ben Saoud, “A Discriminative Possibilistic Approach for Query Translation Disambiguation”. In Proceedings of the 22th International Conference on Application of Natural Language to Information Systems (NLDB). Springer International Publishing Switzerland, LNCS 10260, pp. 366-379, Liège, Belgium, **2017**.
 - 10 Amina Chouigui, Oussama Ben Khiroun and **Bilel Elayeb**, "ANT Corpus : An Arabic News Text Collection for Textual Classification". In Proceedings of the 14th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2017), IEEE Computer Society, Hammamet Tunisia, pp. 135-142, **2017**.
 - 11 Wiem Lahbib, Ibrahim Bounhas and **Bilel Elayeb**, “Arabic-English domain terminology extraction from aligned corpora”. In: R. Meersman et al. (Eds.), Proceedings of The 13th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE), LNCS 8841, Springer-Verlag Berlin Heidelberg, Amantea, Italy, pp. 745–759, **2014**.
 - 12 Ibrahim Bounhas, Wiem Lahbib and **Bilel Elayeb**, “Arabic domain terminology extraction: A literature review”. In: R. Meersman et al. (Eds.), Proceedings of The 13th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE), LNCS 8841, Springer-Verlag Berlin Heidelberg, Amantea, Italy, pp.792-799, **2014**.

- 13 Nadia Soudani, Ibrahim Bounhas, **Bilel Elayeb** and Yahya Slimani, “Toward an Arabic ontology for Arabic word sense disambiguation based on normalised dictionaries”. In: R. Meersman et al. (Eds.), Proceedings of The 13th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE), LNCS 8842, Springer-Verlag Berlin Heidelberg, Amantea, Italy, pp. 655-658, **2014**.
- 14 Nadia Soudani, Ibrahim Bounhas, **Bilel Elayeb** and Yahya Slimani, “An LMF-based Normalization approach of Arabic Islamic dictionaries for Arabic Word Sense Disambiguation: application on hadith”. In the Second International Conference on Islamic Applications in Computer Science and Technologies (IMAN) & In The International Journal on Islamic Applications in Computer Science And Technology (IJIACST 2015), Amman, Jordan, 12– 13 October **2014**.
- 15 Kaouther Faidi, Raja Ayed, Ibrahim Bounhas and **Bilel Elayeb**, “Comparing Arabic NLP tools for Hadith Classification”. In the Second International Conference on Islamic Applications in Computer Science and Technologies (IMAN) & In The International Journal on Islamic Applications in Computer Science And Technology (IJIACST 2015), Amman, Jordan, 12– 13 October **2014**.
- 16 Oussama Ben Khiroun, Raja Ayed, **Bilel Elayeb**, Ibrahim Bounhas, Narjès Bellamine Ben Saoud and Fabrice Evrard, “Towards a New Standard Arabic Test Collection for Mono- and Cross-Language Information Retrieval”, In the 19th International Conference on Application of Natural Language to Information Systems (NLDB). Springer International Publishing Switzerland, LNCS 8455, Montpellier, France, pp. 168-171, **2014**.
- 17 Raja Ayed, Ibrahim Bounhas, **Bilel Elayeb**, Narjès Bellamine Ben Saoud and Fabrice Evrard, “Improving Arabic Texts Morphological Disambiguation using Possibilistic Classifier”, In the 19th International Conference on Application of Natural Language to Information Systems (NLDB). Springer International Publishing Switzerland, LNCS 8455, Montpellier, France, pp. 138-147, **2014**.
- 18 Oussama Ben Khiroun, **Bilel Elayeb**, Ibrahim Bounhas, Fabrice Evrard, and Narjès Bellamine Ben Saoud, “Improving Query Expansion by Automatic Query Disambiguation in Intelligent Information Retrieval”, In The 6th International Conference on Agents and Artificial Intelligence (ICAART 2014), ESEO, Angers, Loire Valley, France, pp. 153-160, **2014**.
- 19 Raja Ayed, Ibrahim Bounhas, **Bilel Elayeb**, Narjès Bellamine Ben Saoud, and Fabrice Evrard, “Evaluation d’une approche possibiliste pour la désambiguïsation des textes

- arabes”. In Actes de TALN’2014 – Traitement Automatique des Langue Naturelles, ATALA, Marseille France, pp. 316-327, **2014**.
- 20 Ibrahim Bounhas, Wiem Lahbib and **Bilel Elayeb**, “Extraction de terminologies en langue Arabe: un état de l’art”. In Proceedings of Cinquième Journées Francophones sur les Ontologies (JFO), Hammamet, Tunisia, November 14-16, pp. 271-282, **2014**.
- 21 Nadia Soudani, Ibrahim Bounhas, **Bilel Elayeb** and Yahya Slimani, “Generic Normalization Approach of Arabic Dictionaries for Arabic Word Sense Disambiguation”. In Proceedings of Cinquième Journées Francophones sur les Ontologies (JFO), Hammamet, Tunisia, November 14-16, pp. 309-315, **2014**.
- 22 Raja Ayed, Oussama Ben Khiroun, Ibrahim Bounhas, **Bilel Elayeb**, and Yahya Slimani, “كنوز: مدونة مرجعية باللغة العربية للبحث عن المعلومة”. Dans : AbdelMajid Ben Hamadou et al. (eds.), Actes de la 6^{ème} édition du Colloque InfoL@ngues, Béja, Tunisia, **2014**. En ligne : <https://infolangues.olympe.in/docs/ActesInfoL@ngues2014.pdf>
- 23 Wiem Ben Romdhane, **Bilel Elayeb**, Ibrahim Bounhas, Fabrice Evrard, and Narjès Bellamine Ben Saoud, “A Possibilistic Query Translation Approach for Cross-Language Information Retrieval”, In The 9th International Conference on Intelligent Computing (ICIC 2013), July 28-31, 2013, Nanning, China, De-Shuang Huang et al. (Eds.), Springer-Verlag Berlin Heidelberg, LNCS 7996, pp. 73-82, **2013**.
- 24 Wiem Lahbib, Ibrahim Bounhas, **Bilel Elayeb**, Fabrice Evrard, and Yahya Slimani, “An hybrid approach for arabic semantic relation extraction”, In the proceedings of The 26th International FLAIRS Conference, St. Pete Beach, Florida, USA, AAAI press, pp. 315-320, **2013**.
- 25 Oussama Ben Khiroun, **Bilel Elayeb**, Ibrahim Bounhas, Fabrice Evrard, and Narjès Bellamine Ben Saoud, “A possibilistic approach for automatic word sense disambiguation”, In the proceedings of the 24th conference on computational linguistics and speech processing (ROCLING), pp. 261-275, Chung-Li, Taiwan, China, 21-22 September **2012**.
- 26 Raja Ayed, Ibrahim Bounhas, **Bilel Elayeb**, Fabrice Evrard, and Narjès Bellamine Ben Saoud, “Arabic Morphological Analysis and Disambiguation Using a Possibilistic Classifier”, In The 8th International Conference on Intelligent Computing (ICIC 2012), July 25-29, 2012, Huangshan, China, De-Shuang Huang et al. (Eds.), Springer-Verlag Berlin Heidelberg, LNAI 7390, pp. 274–279, **2012**.
- 27 Raja Ayed, Ibrahim Bounhas, **Bilel Elayeb**, Fabrice Evrard, and Narjès Bellamine Ben Saoud, “A Possibilistic Approach for the Automatic Morphological Disambiguation of

- Arabic Texts”, In The 13th International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2012), August 08 - 10, 2012, Kyoto, Japan, IEEE Computer Society, pp. 187-194, **2012**.
- 28 Oussama Ben Khiroun, **Bilel Elayeb**, Ibrahim Bounhas, Fabrice Evrard, and Narjès Bellamine Ben Saoud, “A possibilistic approach for semantic query expansion”, In The 4th international conference on Internet Technologies and Applications (ITA’11), Grout V., Oram D., et Picking R., (Eds), Wrexham Wales (UK), pp. 308-316, **2011**.
- 29 **Bilel Elayeb**, Fabrice Evrard, Montaceur Zaghdoud, and Mohamed Ben Ahmed, “A Qualitative Approach for an Intelligent Possibilistic Web Information Retrieval using Multiagent System”, In The IEEE - 6th International Conference in Human System Learning (IEEE-ICHSL6), Saïd Tazi and Khaldoun Zreik (Eds), Toulouse (France), pp. 2-13, **2008**.
- 30 **Bilel Elayeb**, Fabrice Evrard, Montaceur Zaghdoud, and Mohamed Ben Ahmed, “SARIPOD: A Possibilistic System For Web Information Retrieval”, In The 2nd international conference on Internet Technologies and Applications (ITA’07), Grout V., Oram D., et Picking R., (Eds), pp. 82-91, Wrexham Wales (UK), September **2007**.
- 31 **Bilel Elayeb**, Fabrice Evrard, Montaceur Zaghdoud, and Mohamed Ben Ahmed, “SARIPOD: A Multiagent Possibilistic System For Web Information Retrieval”, In The 2007 International Conference on Information and Knowledge Engineering, Hamid R. Arabnia et Ray R. Hashemi (Eds), pp. 72-78, Las Vegas Nevada (USA), June **2007**.
- 32 **Bilel Elayeb**, Fabrice Evrard, Montaceur Zaghdoud, and Mohamed Ben Ahmed, “Vers une architecture à base des Réseaux Petits Mondes Hiérarchiques et des Réseaux Possibilistes pour les environnements riches en informations”, Dans l’Atelier d’Intelligence Artificielle et Web Intelligence (IAWI’2007), Grenoble (France), juillet **2007**. En ligne : <http://www.emse.fr/~vercouter/iawi/10-elayeb.pdf>
- 33 **Bilel Elayeb**, Fabrice Evrard, Montaceur Zaghdoud, and Mohamed Ben Ahmed, “SARIPOD : a system based on hierarchical small-worlds and possibilistic networks for Internet information retrieval”, In IADIS International Conference WWW/Internet 2006, Katia Sycara, Fausto Giunchiglia (Eds.), IADIS Digital Library, pp. 227-232, Murcia (Spain), October **2006**.
- 34 **Bilel Elayeb** and Mohamed Ben Ahmed, “KASS: The KQML Agent Security System”, In The Maghrebian Conference on Information Technologies (MCSEAI’2006), Agadir, Morocco, 07/12/2006-09/12/2006, E. Bouyakhf, D. Mammass, M. Sellami (Eds.), Maghrebian Information Processing Society, pp. 101-106, December **2006**.

5. WORK EXPERIENCE

I have **17 years** as experience in teaching computer sciences and information technology:

- From September 1st 2017:

- Associate Professor in computer science at Emirates College of Technology (ECT), Abu Dhabi, United Arab Emirates (UAE).

- From January 25th, 2013 to August 31st 2017:

- Assistant Professor in computer science at Emirates College of Technology (ECT), Abu Dhabi, United Arab Emirates (UAE).

- From September 15th, 2009 to January 24th, 2013:

- Assistant Professor in computer science at the Faculty of Science of Bizerte, Carthage University, Tunisia.
- Invited Doctor at the National School of Computer Science Tunisia (ENSI), Manouba University (Courses: 'Advanced Data Bases', 'Oriented Object Data Bases' et 'Data Mining' for Master students).

- From September 15th, 2006 to September 14th, 2009:

- University Assistant at the Higher Institute of Multimedia Arts of Manouba (ISAMM) in Manouba University, Tunisia.
- Invited teacher at the National School of Computer Science Tunisia (ENSI), Manouba University (Courses: 'SGBD-L4G' for the engineers' students).

- From September 15th, 2005 to September 14th, 2006:

- University Assistant at the Higher Institute of Informatics (ISI), Tunis-ElManar University, Tunisia.
- Invited teacher at the Higher School of Statistics and Information Analysis (ESSAI), Carthage University, Tunisia. (Courses: 'Data Mining' for the engineering students).

- From September 15th, 2003 to September 14th, 2005:

- Technologist Assistant at the Higher Institute of Technology Study (ISET) of Sousse, Tunisia.

- From September 15th, 2002 to September 14th, 2003:

- Invited teacher at the Higher Institute of Accounting and Companies Administration (ISCAE), Manouba University, Tunisia. (Course: 'Informatics' for the Bachelor students).

- My teaching experience of several courses is summarized in the following table (*Teaching is done in French and English languages*):

Course name	Academic year	College	Level/ Section	Tutorials (h/week)	Training (h/week)	Labs. (h/week)
General Informatics	2002-2003	ISCAE	2 nd year accounting	2	1	-
Data Base Manag. Systems	2003-2005	ISET	2 nd year STID	2	1	-
Web Dev. Tools	2003-2005	ISET	2 nd year STID	2	1	-
Integrated software packages	2003-2005	ISET	2 nd year STID	2		1
Operating System Unix	2003-2005	ISET	2 nd year STID	3	1.5	-
Modeling of information system	2003-2005	ISET	2 nd year STID	2	1	-
Management information system (MIS)	2005-2006	ISI	1 st year info.	2	1	-
Files & DataBase	2005-2006	ISI	2 nd year info.	2	1	-
Operating Systems	2005-2006	ISI	1 st year info.	2	1	-
Introduction to Unix	2005-2006	ISI	1 st year info.	2	1	-
Animation Tech. 2D	2006-2007	ISAMM	2 nd year info. & multimedia	3	-	1.5
Computer Architecture	2006-2009	ISAMM	2 nd year info. & multimedia	2	1	-
DataBase	2006-2009	ISAMM	2 nd year info. & multimedia	2	1	-
Programmating Lang. C	2006-2009	ISAMM	1 st year info. & multimedia	2	1	-
C2I	2009-2010	FSB	1 ^{er} year informatics	1.5	-	-
Introduction to data Exploration	2009-2012	FSB	1 ^{er} year informatics	3	-	-
Algorithmic & Data structures	2009-2012	FSB	2 nd year informatics	3	5.5	-
Cryptography	2009-2012	FSB	2 nd year informatics	1	0.5	-
Distributed systems	2009-2010	FSB	2 nd year informatics	-	-	5.5
Data Base Manag. Systems (DBMS)	2009-2010	FSB	2 nd year informatics	3	-	-
PL/SQL lang.	2009-2010	FSB	2 nd year informatics	3	-	-
DBMS-4GL	2006-2007	ENSI	2 nd year Engineering Info.	3	-	-
Advanced DataBase	2008-2011	ENSI	Master Info.	3	-	-
Oriented Object DataBase	2009-2011	ENSI	Master Info.	3	-	-

Data Mining & warehousing	2009-2011	ENSI	Master Info.	3	-	-
Data Mining	2005-2006	ESSAI	3 rd year Engineering Info.	3	-	-
Data Base Manag. Systems	2013-2016	ECT	Bachelor IT	3	-	-
OOP Syst. Analy. design	2013-2016	ECT	Bachelor IT	3	-	-
Data com. & Net.	2013-2016	ECT	Bachelor IT	3	-	-
Intro. to Web Dev.	2013-2016	ECT	Bachelor IT	3	-	-
Advanced Web Dev.	2013-2016	ECT	Bachelor IT	3	-	-
Object Orient. Prog. C#	2013-2016	ECT	Bachelor IT	3	-	-
Intro. Comp. Prog. C#	2013-2016	ECT	Bachelor IT	3	-	-
Management information system (MIS)	2013-2016	ECT	Bachelor IT	3	-	-
e-business	2013-2016	ECT	Bachelor IT	3	-	-
Business Intelligence	2013-2016	ECT	Bachelor IT	3	-	-

ISCAE : The Higher Institute of Accounting and Companies Administrations, Manouba University, Tunisia.
ISET : The Higher Institute of Technology Study of Sousse, Tunisia.
ISI : The Higher Institute of Informatics, Tunis El-Manar University, Tunisia.
ISAMM : The Higher Institute of Multimedia Arts of Manouba, Manouba University, Tunisia.
ENSI : The National School of Computer Science, Manouba University, Tunisia.
ESSAI : The Higher School of Statistics and Information Analysis, Carthage University, Tunisia.
FSB : Faculty of Science of Bizerte, Carthage University, Tunisia.
ECT : Emirates College of Technology, Abu Dhabi, UAE.

6. SUPERVISED RESEARCHES

6.1 MASTER THESIS SUPERVISION: (5 Master Theses)

1. **Wiem Ben Romdhane**: « A possibilistic Query Translation Model for Cross-Language Information Retrieval ». Defense was in January 15th, 2013. Mention: honorable.
2. **Inès Bannour**: « Indexing and Retrieval methods for the Semantic Web ». Defense was in September 15th, 2012. Mention: honorable.
3. **Mehdi Boukhris**: « A Platform for Autonomous, Communicating, Cognitive and Emotional Agents: Application for Urban ». Defense was in June 23th, 2011. Mention: very honorable.
4. **Oussama Ben Khiroun**: « SPORSER: A Possibilistic Semantic Query Expansion System ». Defense was in November 03th, 2010. Mention: very honorable.
5. **Ismail Fakhfakh**: « Semantic Processing of Structured Documents Collections ». Defense was in June 26th, 2009. Mention: very honorable.

6.2 Ph.D. THESIS CO-SUPERVISION: (5 Ph.D. Theses)

1. **Ibrahim Bounhas:** « Building and Integrating Ontologies for a Reliability-Guided Mapping of Arabic Corpora ». Co-supervision with Pr. Yahya Slimani. Defense was in June 09th, **2012**. Mention: very honorable.
2. **Raja Ayed:** « Morphological Disambiguation of Arabic text based on possibilistic classification for socio-semantic information retrieval ». Co-supervision with Pr. Narjès Bellamine Ben Saoud. Defense was in December 22th, **2017**. Mention: very honorable.
3. **Oussama Ben Khiroun:** « Mono- and Cross-Language Information Retrieval: From Semantic Query Disambiguation to Query Expansion ». Co-supervision with Pr. Narjès Bellamine Ben Saoud. Defense was in March 08th, **2018**. Mention: very honorable.
4. **Wiem Ben Romdhane:** « Query Translation Disambiguation in Cross-Language Information Retrieval ». Co-supervision with Pr. Narjès Bellamine Ben Saoud. Defense was in April 13th, **2019**. Mention: very honorable
5. **Amina Chouigui:** « Arabic text mining: Application to multisource news texts ». Co-supervision with Pr. Narjès Bellamine Ben Saoud. Defense will be in December **2020**.

7. REFEREE SERVICE

- **International Journals:**

- ACM Transactions on Asian and Low-Resource Language Information Processing (ACM-TALLIP), ACM Press.
- Computer Methods and Programs in Biomedicine (CMPB), Elsevier.
- Information Processing & Management (IPM), Elsevier.

- **International Conferences/Workshops:**

- OTM Conferences & Workshops (ODBASE 2015-2016): The International Conference on Ontologies, DataBases, and Applications of Semantics.
- CARI: African Conference on Research in Computer Science and Applied Mathematic.
- ANLP-2018: The 2nd International Workshop on Advances in Natural Language Processing
- AICCSA-2018: The 15th ACS/IEEE International Conference on Computer Systems and Applications.

- **National Conferences:** CORIA, EGC-Maghreb, ISKO-Maghreb

- **Conference Session Chair:**

- OTM Conferences & Workshops (Meta4eS-2018): The 7th International Workshop on Methods, Evaluation, Tools and Applications for the Creation and Consumption of Structured Data for the e-Society, Valletta (Malta), 22-26 October, 2018.

8. UNIVERSITY AND COMMUNITY SERVICES

- Head of the College Research Unit at Emirates College of Technology, Abu Dhabi UAE since January 2016.
- Chair of the *College Research Committee* at Emirates College of Technology, Abu Dhabi UAE since January 2016.
- Member of *Research Committee* at Emirates College of Technology, Abu Dhabi UAE between June 2013 and December 2015.
- Member of the *College Academic Board* at Emirates College of Technology, Abu Dhabi UAE since February 2016.
- Member of the *College Quality Board* at Emirates College of Technology, Abu Dhabi UAE since February 2016.
- Member of the *College ACBSP Accreditation Committee* at Emirates College of Technology, Abu Dhabi UAE since February 2016.
- Member of the *College Strategic Plan Committee* at Emirates College of Technology, Abu Dhabi UAE since February 2016.
- Member of the *College Promotion Committee* at Emirates College of Technology, Abu Dhabi UAE since February 2016.
- Member of the *College Recruitment Committee* at Emirates College of Technology, Abu Dhabi UAE since February 2016.
- Member of program committee of **Diploma** in Business Administration and Computer information Systems and **Bachelor** of Business Administration In Business Information Technology and **Bachelor** of Applied Health Sciences in Health Information Management at Emirates College of Technology, Abu Dhabi, UAE in 2013 and 2014.
- Member of program committee of Master of Science in “Innovation, Entrepreneurship and Business Excellence” and the Master of Science in “Industrial Management” at Emirates College of Technology, Abu Dhabi, UAE.
- Member of jury in many Master Thesis and Graduation Projects’ defenses.
- Course leader in many computer science and information technology courses.

9. LANGUAGES

- **Arabic:** Native language
- **French:** Good spoken and written
- **English:** Good spoken and written

10. REFERENCES

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