

# CURRICULUM VITAE

---

## Ibrahim BOUNHAS, PhD

**Birth Date:** December 04, 1981, Tataouine, Tunisia

**Marital Status:** Married

**Professional Address:** Institut Supérieur de Documentation, Université de la Manouba, Campus universitaire de la Manouba, 2010, Manouba.

**Phone :** (+216) 71 601 550

**Mobile:** (+216) 96 563 257

**Fax:** (+216) 71 600 200

**Email :** bounhas.ibrahim@{gmail.com, yahoo.fr}

**Web site:**[www.jarir.tn/IbrahimBounhas](http://www.jarir.tn/IbrahimBounhas)

## EDUCATION

---

- June 2012**      **PhD in Computer Science**, Faculty of Sciences of Tunis (**FST**), Tunis El Manar University, Tunisia.  
Title: Construction et intégration d'ontologies pour la cartographie socio-sémantique de fonds documentaires arabes guidée par la fiabilité de l'information.
- December 2006**    **MSc in Computer Science**, National School of Computer Science (**ENSI**), La Manouba University, Tunisia.  
Title: Un Analyseur de Contenu des Documents Scientifiques du Web.
- June 2004**      **BScin Computer Science Applied to Management**, Higher Institute of Management of Tunis (**ISG**), Tunisia.  
Title: Développement à base de COTS d'un pré-processeur de requêtes dans une infrastructure de réutilisation.
- June 2000**      **Baccalaureate in Mathematics**

## EXPERIENCE

---

- 2017-today**      Head of document and archives management department, Higher Institute of Documentation (**ISD**), La Manouba University, Tunisia.
- 2013-today**      Assistant Professor, Higher Institute of Documentation (**ISD**), La Manouba University, Tunisia.
- 2010 - 2013**      Assistant, Higher Institute of Documentation, La Manouba University, Tunisia.
- 2007 - 2010**      Contractual assistant, Higher School of E-Commerce (**ESCE**), La

- Manouba University, Tunisia.
- 2006 - 2007** Contractual assistant, Higher Institute of Medical Technologies (**ISTM**), Tunis El Manar University, Tunisia.
- 2004 - 2005** Half-time Dot Net Web developer at CityStream company.

### ACADEMIC ACTIVITIES

- 2018- Today** Committee member of the research master in information sciences (**ISD**)
- 2015- Today** Committee member of the professional master in documentation of companies (**ISD**)
- Committee member of the rehabilitation program
  - Supervision of professional training periods and theses.
- 2011- Today** Committee member of the professional master in Management of Numeric Information and Documents (**ISD**):
- Committee member of the rehabilitation program
  - Supervision of professional training periods and theses.
- 2011- Today** Committee member for the recruitment of new students for research and professional master diplomas (**ISD**)
- 2012-2014** President of exams jury for 1<sup>st</sup> year of the applied BSc in Electronic Management of Information and Documents (**ISD**).

### TEACHING

Level	Title	Nature	Duration (hours)	Year
<b>Master in documentation, ISD</b>				
2	Ontologies and knowledge bases	1/3 Tutorials + 2/3 Training	14+28	2014-2019
	Web Generations	Tutorials	14	2012-2019
1	Data Bases and Dynamic Web	Tutorials	14	2012-2018
	Search Engines	1/2 Tutorials +1/2 Training	28	2012-2015
	Open Computer Systems	Training	28	2011-2015
	Computer Networks - Level 2	1/3 Tutorials + 2/3 Training	14+28	2011-2012
<b>Bachelor's degree in documentation, ISD</b>				
1	Data Bases	Tutorials + Training	14+28	2011-2019
	Data Bases	Tutorials + Training	14+14	2012-2018
3	Informational Watch	1/3 Tutorials +2/3 Training	14+28	2013-2018
	Documentary portals	Training	28	2013-2019
	Tools and Methods of Technological Watch	Training	28	2012-2014
2	Tools and Methods of Electronic Information Retrieval	Training	28	2011-2013

	Multimedia Technologies	1/2 Tutorials + 1/2 Training	14+14	2010-2012
	Computer Networks - Level 1	Training	28	2010-2012
<b>Bachelor's degree in E-commerce, ESCE</b>				
1	Programming - Level 2	Tutorials	21	2007-2010
	Programming - Level 1			2007-2010
<b>Bachelor's degree in medical technologies, ISTM</b>				
1	C Programming language	Training + Practical Works	21 + 21	2006-2007
1	General Computer Science	Practical Works	42	2006-2007
<b>Engineer and BSc in Computer Science, CityStream</b>				
Last	Dynamic Web site Development with SQL Server and Dot Net	Tutorials + Practical Works	18	2004-2005

## RESEARCH ACTIVITIES

---

### GENERAL RESEARCH AREAS

- Information Retrieval
- Data & Text Mining
- Natural Language Processing
- Knowledge extraction
- Lexical and semantic resources

### CURRENT RESEARCH INTERESTS

- Arabic Morphological disambiguation
- Arabic simple and Multi-Word Term extraction
- Arabic dictionary standardization
- Word Sense Disambiguation
- Arabic Information Retrieval
- Multilingual Information Retrieval
- Query expansion
- Information Credibility evaluation

### MEMBERSHIP AND COLLABORATION

- June 2014-Today** • **Member and Website administrator** of the Joint group for Artificial Reasoning and Information Retrieval (**JARIR**: [www.jarir.tn](http://www.jarir.tn))
- 2010- Today** • **Permanent member** of LISI laboratory, INSAT, Carthage University, Tunisia.
- 2012- Today** • **Collaboration** with the research team "Open Access to Scientific and Technical information", research unit "Numeric Library for the promotion of heritage", **ISD**.
- 2010- Today** • **Collaboration** with **RIADI** Laboratory, ENSI, La Manouba University, Tunisia.
- 2010-2013** • **Collaboration** with **IRIT** laboratory, Toulouse, France

- 2007-2010
- **Permanent member** of MOSIC research unit, INSAT, Carthage University, Tunisia.
- 2004-2007
- **Member** of RIADI laboratory.

## SCIENTIFIC ACTIVITIES

### **Program Committees Membership**

- July 2019 - Today
- 3<sup>rd</sup> international conference on Libraries and Archives in the Digital Humanities Era (CIBAHN'2020)
- November 2017- Today
- 29<sup>th</sup>, 30<sup>th</sup> and 30<sup>st</sup> IEEE International Conference on Tools with Artificial Intelligence (ICTAI'2017, ICTAI'2018 and ICTAI'2019)
- November 2017 - Today
- 3<sup>rd</sup> and 4<sup>th</sup> International Conference on Arabic Computational Linguistics (ACLing2017 and ACLing2018)
- September 2014 - Today
- 13<sup>th</sup>, 14<sup>th</sup> and 15<sup>th</sup> African Conference on Research in Computer Science and Applied Mathematics (CARI'2014, CARI'2016 and CARI'2018).
- August 2014- Today
- International Conference on Islamic Applications in Computer Science and Technologies (IMAN'2014 → IMAN'2018)
- October 2017
- 6<sup>th</sup> International Conference on Arabic Language Processing (ICALP 2017), October 11th - 12th 2017, Fez, Morocco.
- 2016- 2017
- 2<sup>nd</sup> and 3<sup>rd</sup> International Conference on Advanced Intelligent Systems and Informatics (AISI'2016 and AISI'2017)
- December 2015
- Memory and cultural heritage computerization conference, Constantine, Algeria, December 14-15, 2015.

### **Reviewing activities**

- November 2016- Today
- ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), ACM, ISSN:2375-4699
- November 2017- Today
- International Journal of Information Retrieval Research (IJIRR), IGI-Global, ISSN: 2155-6377
- October 2016
- Language Resources and Evaluation, Springer, ISSN: 1574-020X
- June 2017
- Journal of King Saud University - Computer and Information Sciences, Elsevier, ISSN: 1319-1578
- May 2015
- Egyptian Informatics Journal, Elsevier, ISSN: 1110-8665

### **Scientific Events Organization**

- July 2019 - Today
- 3<sup>rd</sup> international conference on Libraries and Archives in the Digital Humanities Era (CIBAH N'2020)
- April 27, 2018
- Moderator in the Maghreb Libraries' Day, Success stories - librarians leaders, Tunis, Tunisia.
- April 10, 2013 - Today
- First to Sixth open access day (JELA'2013 to JELA'2018), Tunis, Tunisia.
- December 1-3, 2016
- Second International conference on Open Access and scientific research: towards new values (ICOA'2016), <http://icoa2016.sciencesconf.org>.
- November 27-28, 2014
- First International conference on Open Access and scientific research: towards new values (ICOA'2014), [www.icoa2014.sciencesconf.org](http://www.icoa2014.sciencesconf.org).

April 10, 2014 • Second open access day (JELA'2014), Tunis, Tunisia, [www.cnudst.rnrt.tn/JELA2014.html](http://www.cnudst.rnrt.tn/JELA2014.html).

October 22-24, 2013 • **Organization and oral presentation** at the open access week, **ISD**, La Manouba, Tunisia, [www.cnudst.rnrt.tn/oaw2013.htm](http://www.cnudst.rnrt.tn/oaw2013.htm).

### **Training and Participation in Scientific Events**

October 10-14, 2016 • **Participation** at the Second International conference on Open Access and scientific research: towards new values (ICOA'2016), <http://icoa2016.sciencesconf.org>.

November 27-28, 2014 • **Participation and oral presentation** at the First International conference on Open Access and scientific research: towards new values (ICOA'2014), [www.icoa2014.sciencesconf.org](http://www.icoa2014.sciencesconf.org).

October 28-31, 2014 • **Participation** in the autumn school in information retrieval: Fundamentals and applications (EARI-FA: Ecole d'Automne en Recherche d'Information: Fondements et Applications), Hammamet, Tunisia.

April 24-26, 2014 • **Participation** in the 6<sup>th</sup> edition of InfoL@ngues conference, Béja, Tunisia.

October 22-24, 2013 • **Participation and oral presentation** at the open access week, **ISD**, La Manouba, Tunisia, [www.cnudst.rnrt.tn/oaw2013.htm](http://www.cnudst.rnrt.tn/oaw2013.htm).

October 18-21, 2010 • **Participation and oral presentation** at CARI'10 (African conference on research on computer science and applied mathematics), Yamoussoukro, Côte d'Ivoire.

May 19-21, 2010 • **Participation and oral presentation** at ICCA'10 (6<sup>th</sup> International Computing Conference in Arabic), Hammamet, Tunisia.

March 22 - April 2, 2010 • **Training period** in IRIT laboratory with Dr. Fabrice Evrard.

March 16-18, 2010 • **Participation and oral presentation** at CAMP'10 (International Conference on Information Retrieval and Knowledge Management), Kuala Lumpur, Malaysia.

### **END OF STUDIES RESEARCH PROJECTS**

October 1, 2013 **Manel Boujlel**, ISAMM.  
*Développement d'un outil de recherche par terminologies de domaines alignées dans un portail du hadith.*

October 1, 2013 **Asma Rihani**, ISAMM.  
*Conception et développement d'une plate-forme de traitement de requêtes en recherche d'information à base de graphes*

### **MSc STUDENTS**

#### **DEFENDED**

April 10, 2017 **Sawsen Ben Babbis**, ISAMM, LISI.  
*Fouille de textes arabes voyellés pour la recherche d'information morpho-sémantique.*

- April 19, 2016**      **Wissem Amama**, ISAMM, LISI.  
*Une approche hybride pour l'enrichissement de terminologies multilingues: application à AGROVOC*
- December 14, 2012**      **Wiem Lahbib**, FST, LISI.  
*Proposition d'une approche d'extraction de relations sémantiques à partir de corpus arabes voyellés.*

## **IN PROGRESS**

- March 2019- Today**      **Tarek Hamdi**, ENSI, LISI.  
*Approche à base de propagation pour l'évaluation de la crédibilité des tweets.*
- Expected defense date: October 2019

## **PHD STUDENTS**

### **DEFENDED**

- December 22, 2017**      **Raja Ayed (PhD)**, ENSI, RIADI.  
*RISSA: système de recherche d'information socio-sémantique pour la langue Arabe.*
- Supervisor: Professor Narjès Bellamine Ben Saoud, RIADI
  - Participation: Dr. Bilel Elayed, RIADI.

### **IN PROGRESS** (Supervised by Pr. Yahya Slimani)

- September 2017- Today**      **Billel Aklouche**, ENSI, LISI.  
*A generalized model for text mining.*
- Expected defense date: January 2021
- September 2016- Today**      **Hamda Slimi**, ENSI, LISI.  
*Tweet credibility evaluation.*
- Expected defense date: December 2020
- September 2014- Today**      **Souheil Ben Guirat**, ENSI, LISI.  
*Développement d'un SRI Arabe: de la combinaison d'indexes à la méta-recherche et le crawlage personnalisés*
- Expected defense date: March 2020
- September 2013- Today**      **Nadia Soudani**, ENSI, LISI.  
*Construction d'ontologie à partir de dictionnaires pour la désambiguïsation sémantique en langue Arabe.*
- Expected defense date: October 2019
- September 2013- Today**      **Wiem Lahbib**, ENSI, LISI.  
*Extraction et structuration de terminologies pour la reformulation de requêtes en RI : application à la langue Arabe*
- Expected defense date: October 2019

### **BOOK CHAPTER**

S. Ben Guirat, Bounhas, I., and Slimani, Y., “**Combining indexing units for arabic information retrieval**”, in Information Retrieval and Management: Concepts, Methodologies, Tools, and Applications, 4 vol., IGI Global, 2018, pp. 671-685.

## JOURNAL PAPERS

### Under review

I. Bounhas, N. Soudani, and Slimani, Y., "**CAMS-KG: a Classical Arabic Morpho-Semantic Knowledge Graph**", *Information Processing and Management (Minor revision)*.

W. Lahbib, Bounhas, I., and Slimani, Y., "**Semantic Methods in Arabic Monolingual and Bilingual Terminology Extraction: An Empirical Study**", *Asian and Low-Resource Language Information Processing (TALLIP) (Major revision)*.

W. Lahbib, Bounhas, I., and Slimani, Y., "**Terminology-based word embedding for domain-specific Arabic query expansion**", *The Computer Journal*.

### 2019

I. Bounhas, "**On the usage of a classical Arabic corpus as a language resource: related works and key challenges**", *ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)*, vol. 18, no. 3, p. Article N°23, 2019

N. Soudani, Bounhas, I., and Slimani, Y., "**MOSSA : A MORPHO-SEMANTIC KNOWLEDGE EXTRACTION SYSTEM FOR ARABIC INFORMATION RETRIEVAL**", *International Journal of Knowledge and Web Intelligence (Major revision)*.

### 2016

S. Ben Guirat, Bounhas, I., and Slimani, Y., "**Combining Indexing Units for Arabic Information Retrieval**", *International Journal of Software Innovation (IJSI)*, vol. 4, no. 4, 2016.

B. Elayeb and Bounhas, I., "**Arabic Cross-Language Information Retrieval: A Review**", *ACM Transactions on Asian and Low-Resource Language Information Processing*, vol. 15, no. 3, p. 44 pages, Article 18, 2016. [Rank: B]. DOI: <http://dx.doi.org/10.1145/2789210>

### 2015

B. Elayeb, Bounhas, I., Ben Khiroun, O., and Ben Saoud, N., "**Combining Semantic Query Disambiguation and Expansion to Improve Intelligent Information Retrieval**", in *Duval B., van den Herik J., Loiseau S., and Filipe J. (eds.), ICAART 2014 Revised Selected papers, LNAI 8946, Springer International Publishing Switzerland, pp. 280-295., 2015.*

I. Bounhas, Ayed, R., Elayeb, B., Evrard, F., and Ben Saoud, N., "**A Hybrid Possibilistic Approach for Arabic Full Morphological Disambiguation**", *Data & Knowledge Engineering*, vol. 100, no. Part B, pp. 240-254, 2015, [ISI IF : 1.115 in 2015; Rank: B]. DOI: [doi:10.1016/j.datak.2015.06.008](https://doi.org/10.1016/j.datak.2015.06.008)

B. Elayeb, Bounhas, I., Ben Khiroun, O., Evrard, F., and Ben Saoud, N., "**A Comparative Study between Possibilistic and Probabilistic Approaches for Monolingual Word Sense Disambiguation**", *Knowledge and Information Systems*, vol. 44, no. 1, pp. 91-126, 2015. [ISI IF: 2.225 in 2013; Rank: B]<sup>1</sup>. DOI: [10.1007/s10115-014-0753-z](https://doi.org/10.1007/s10115-014-0753-z)

I. Bounhas, Ayed, R., Elayeb, B., Evrard, F., and Ben Saoud, N., "**Experimenting a discriminative possibilistic classifier with reweighting model for Arabic morphological disambiguation**", *Computer Speech and Language*, vol. 33, no. 1, pp. 67-87, 2015. [ISI IF: 1.753 in 2015; Rank: A]. DOI: <http://dx.doi.org/10.1016/j.csl.2014.12.005>

I. Bounhas, Elayeb, B., Evrard, F., and Slimani, Y., "**Information reliability evaluation: from Arabic storytelling to computer sciences**", *ACM Journal on Computing and Cultural Heritage (JOCCH)*, vol. 8, no. 3, p. Article 14, 33 pages, 2015.

N. Soudani, Bounhas, I., Elayeb, B., and Slimani, Y., "**An LMF-based Normalization approach of Arabic Islamic dictionaries for Arabic Word Sense Disambiguation: application on hadith**", *The International Journal on Islamic Applications in Computer Science And Technology (Selected papers from The Second International Conference on Islamic Applications in Computer Science and Technologies (IMAN), Amman, Jordan, October 1-3, 2014)*, vol. 3, no. 2, pp. 10-18, 2015.

---

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

## 2011

I. Bounhas, Elayeb, B., Evrard, F., and Slimani, Y., “**ArabOnto: experimenting a new distributional approach for building Arabic ontological resources**”, *International Journal of Metadata, Semantics and Ontologies (IJMSO)*, vol. 6, no. 2, pp. 81–95, 2011.[Rank: C]. DOI: 10.1504/IJMSO.2011.046578

I. Bounhas, Elayeb, B., Evrard, F., and Slimani, Y., “**Organizing contextual knowledge for arabic text disambiguation and terminology extraction**”, *Knowledge Organization Journal (KO)*, vol. 38, no. 6, pp. 473–490, 2011.[ISI IF: 0.448 in 2014; Rank: A]

B. Elayeb, Bounhas, I., Ben Khiroun, O., Evrard, F., and Ben Saoud, N., “**Towards a Possibilistic Information Retrieval System Using Semantic Query Expansion**”, *International Journal of Intelligent Information Technologies (JIIT)*, vol. 7, no. 2, pp. 1–25, 2011.[Rank: C]. DOI: 10.4018/jiit.2011100101

I. Bounhas and Slimani, Y., “**نحو منهجية ومدونة في خدمة المعلوماتية العربية في الوب الاجتماعي الدلالي**”, *المجلة الدولية لعلوم و هندسة الحاسوب*, vol. 3, no. 3, pp. 67–80, 2011.

## 2010

I. Bounhas, Elayeb, B., Evrard, F., and Slimani, Y., “**Toward a computer study of the reliability of Arabic stories**”, *Journal of the American Society for Information Science and Technology (JASIST)*, vol. 61, no. 8, pp. 1686–1705, 2010.[ISI IF: 2.081 in 2013; Rank: A\*]. DOI: 10.1002/asi.21356

## CONFERENCE PAPERS

### 2019

B. Aklouche, Bounhas, I., and Slimani, Y., “**Pseudo-Relevance Feedback Based on Locally-Built Co-occurrence Graphs**”, in *23<sup>rd</sup> European Conference on Advances in Databases and Information Systems (ADBIS 2019)*, Bled, Slovenia, September 8-11, 2019, In Press. [Rank: B]

B. Aklouche, Bounhas, I., and Slimani, Y., “**BM25 Beyond Query-Document Similarity**”, in *26<sup>th</sup> International Symposium on String Processing and Information Retrieval (SPIRE 2019)*, Segovia, Spain, October 7-9, 2019, In Press. [Rank: B]

I. Bounhas, Slimi, H., and Slimani, Y., “**L'exploitation des techniques de régression pour l'évaluation de la crédibilité des tweets**”, in *Extraction et Gestion de Connaissances*, pp. 327-332, 21-25 janvier, Metz, France, 2019.

S., Ben Guirat, Bounhas, I., and Slimani, Y. “**Pre-indexing Techniques in Arabic Information Retrieval**”. In *Proceedings of the 11<sup>th</sup> International Conference on Agents and Artificial Intelligence*, vol. 2 pp. 237-246, Prague, Czech Republic, February 19-21, 2019.[Rank: C]

### 2018

B. Aklouche, Bounhas, I., and Slimani, Y. “**Query Expansion Based on NLP and Word Embeddings**”. *Text Retrieval Conference (TREC'2018)*, Gaithersburg, Maryland, USA, November 14-16, 2018

N. Soudani, Bounhas, I., and Ben Babiss, S., “**Ambiguity Aware Arabic Document Indexing and Query Expansion: a Morphological Knowledge Learning-based Approach**”, in *Proceedings of the 31st International Florida Artificial Intelligence Research Society (FLAIRS-31) Conference*, Crowne Plaza Melbourne Oceanfront Melbourne, Florida, USA, 2018.

N. Soudani, Bounhas, I., and Slimani, Y., “**A hybrid approach for standardized Dictionary-based knowledge extraction for Arabic morpho-semantic retrieval**”, in *Proceedings of the 2nd IEEE International Workshop on Arabic and derived Script Analysis and Recognition (ASAR 2018)*, The Alan Turing Institute, London, United Kingdom, 2018.

W. Lahbib, Bounhas, I., and Slimani, Y., “**Comparative study of word embedding models for Arabic terminology extraction**”, in *Applied Computing conference*, pp. 245-252, Budapest, Hungary, 2018.

S. Ben Guirat, Bounhas, I., and Slimani, Y., “**Enhancing Hybrid Indexing for Arabic Information Retrieval**”, in *32nd International Symposium, ISCIS 2018, Held at the 24th IFIP World Computer Congress, WCC 2018, Poznan, Poland, September 20-21, 2018, Proceedings, Poznan, Poland, 2018.*

W. Lahbib, Bounhas, I., and Slimani, Y., “**A Possibilistic approach for Arabic domain terminology extraction and translation**”, in *International Symposium on Computer and Information Sciences*, pp. 231-238, Poznan, Poland, 2018.

## 2016

S. Ben Guirat, Bounhas, I., and Slimani, Y., “**A Hybrid Model for Arabic Document Indexing**”, in *17th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2016), May 30 - June 1, 2016 Shanghai China*, 2016.

N. Soudani, Bounhas, I., and Slimani, Y., “**Semantic Information Retrieval: A comparative experimental study of NLP Tools and Language Resources for Arabic**”, in *28<sup>th</sup> International Conference on Tools with Artificial Intelligence (ICTAI)*, November 06-08, San Jose, Canada, 2016.

## 2015

W. Lahbib, Bounhas, I., and Slimani, Y., “**Arabic Terminology Extraction and Enrichment based on Domain-Specific Text Mining**”, in *Proceedings of The 27th International Conference on Tools with Artificial Intelligence, November 9-11, 2015, Vietri sul Mare, Italy*, 2015.

## 2014

I. Bounhas, Lahbib, W., and Elayeb, B., “**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), Springer-Verlag Berlin Heidelberg, LNCS 8841, Amantea, Italy*, 2014, pp. 792–799.

W. Lahbib, Bounhas, I., and Elayeb, B., “**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), Springer-Verlag Berlin Heidelberg, LNCS 8841, Amantea, Italy*, 2014, pp. 745–759.

K. Faidi, Ayed, R., Bounhas, I., and Elayeb, B., “**Comparing Arabic NLP tools for Hadith Classification**”, in *Proceedings of The Second International Conference on Islamic Applications in Computer Science and Technologies (IMAN), Amman, Jordan, October 1-3, 2014*.

S. Houissa, Bounhas, I., and Oueslati, S., “**De l'usage et la production de l'IST à la publication en libre accès: implication des chercheurs de l'UMA**”, in *Proceedings of the 1st International conference on Open Access and scientific research: towards new values, ICOA'2014, Tunis, Tunisia, November 27-28, 2014*.

R. Ayed, Bounhas, I., Elayeb, B., Ben Saoud, N., and Evrard, F., “**Evaluation d'une approche possibiliste pour la désambiguïsation des textes arabes**”, in *Actes de TALN'2014 – Traitement Automatique des Langue Naturelles, Marseille, France, July 1-4, 2014*, pp. 316–327.

I. Bounhas, Lahbib, W., and Elayeb, B., “**Extraction de terminologies en langue Arabe: un état de l'art**”, in *Actes des 5èmes journées Francophones sur les Ontologies, Hammamet, Tunisie, November 14-16, pp. 271-282, 2014*.

N. Soudani, Bounhas, I., Elayeb, B., and Simani, Y., “**A Generic Normalization Approach of Arabic Dictionaries for Arabic Word Sense Disambiguation**”, in *Actes des 5èmes journées Francophones sur les Ontologies, Hammamet, Tunisie, November 14-16, pp. 309-315, 2014*.

R. Ayed, Bounhas, I., Elayeb, B., Ben Saoud, N., and Evrard, F., “**Improving Arabic Texts Morphological Disambiguation Using a Possibilistic Classifier**”, in *Natural Language Processing and Information Systems - Proceedings of The 19th International Conference on Applications of Natural Language to Information Systems, NLDB'2014, Montpellier, France, June 18-20, 2014, 2014*, pp. 138–147.

O. Ben Khiroun, Elayeb, B., Bounhas, I., Evrard, F., and Ben Saoud, N., “**Improving Query Expansion by Automatic Query Disambiguation in Intelligent Information Retrieval**”, in *Proceedings of ICAART'2014 - the 6th International Conference on Agents and Artificial Intelligence, Volume 1, ESEO, Angers, Loire Valley, France, March 6-8, 2014*, pp. 153–160.

N. Soudani, Bounhas, I., Elayeb, B., and Slimani, Y., “**Toward an Arabic ontology for Arabic word sense disambiguation based on normalized dictionaries**”, in R. Meersman et al. (Eds.), *Proceedings of The 13th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE)*, Springer-Verlag Berlin Heidelberg, LNCS 8842, Amantea, Italy, pp. 655-658, 2014.

O. Ben Khiroun, Ayed, R., Elayeb, B., Bounhas, I., Ben Saoud, N., and Evrard, F., “**Towards a New Standard Arabic Test Collection for Mono- and Cross-Language Information Retrieval**”, in *Natural Language Processing and Information Systems - Proceedings of The 19th International Conference on Applications of Natural Language to Information Systems, NLDB'2014, Montpellier, France, June 18-20, 2014*, 2014, pp. 168–171.

R. Ayed, Ben Khiroun, O., Bounhas, I., Elayeb, B., and Slimani, Y., “**كنوز: مدونة مرجعية باللغة العربية للبحث عن المعلومة**”, in AbdelMajid Ben Hamadou et al. (eds.), *Actes de la 6ième édition du Colloque InfoL@ngues, Béja, Tunisia, April 24-26, 2014*.

## 2013

W. Lahbib, Bounhas, I., Elayeb, B., Evrard, F., and Slimani, Y., “**A Hybrid Approach for Arabic Semantic Relation Extraction**”, in *Proceedings of the Twenty-Sixth International Florida Artificial Intelligence Research Society Conference, FLAIRS'2013, St. Pete Beach, Florida. May 22-24, 2013*.

W. Ben Romdhane, Elayeb, B., Bounhas, I., Evrard, F., and Ben Saoud, N., “**A Possibilistic Query Translation Approach for Cross-Language Information Retrieval**”, in *Proceedings of the 9th International Conference on Intelligent Computing Theories and Technology, ICIC'2013, Nanning, China, July 28-31, 2013*, pp. 73–82.

## 2012

R. Ayed, Bounhas, I., Elayeb, B., Evrard, F., and Ben Saoud, N., “**Arabic Morphological Analysis and Disambiguation Using a Possibilistic Classifier**”, in *Proceedings of the 8th International Conference on Intelligent Computing Theories and Technology, ICIC'2012, Huangshan, China, July 25-29, 2012*, pp. 274–279.

O. Ben Khiroun, Elayeb, B., Bounhas, I., Evrard, F., and Ben Saoud, N., “**A Possibilistic Approach for Automatic Word Sense Disambiguation**”, in *Proceedings of the 24th Conference on Computational Linguistics and Speech Processing, ROCLING'2012, Yuan Ze University, Chung-Li, Taiwan, September 21-22, 2012*.

R. Ayed, Bounhas, I., Elayeb, B., Evrard, F., and Ben Saoud, N., “**A Possibilistic Approach for the Automatic Morphological Disambiguation of Arabic Texts**”, in *Proceedings of the 13th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing, SNPD'2012, Kyoto, Japan, August 8-10, 2012*, pp. 187–194.

## 2011

O. Ben Khiroun, Elayeb, B., Bounhas, I., Evrard, F., and Ben Saoud, N., “**A possibilistic approach for semantic query expansion**”, in Grout V., Oram D., et Picking R., (Eds), *Proceedings of the 4th international conference on Internet Technologies and Applications (ITA'11), Wrexham Wales, UK, September 6-9, 2011*, pp. 308–316.

## 2010

I. Bounhas and Slimani, Y., “**Désambiguisation de textes Arabes pour l'extraction des syntagmes nominaux: l'apport de la structure des documents**”, in *Actes du 10ème Colloque Africain sur la Recherche en Informatique et en Mathématiques Appliquées, Yamoussoukro, Côte d'Ivoire, Octobre 18 – 21, pp. 93-100, 2010*, pp. 93–100.

I. Bounhas and Slimani, Y., “**A hierarchical approach for semi-structured document indexing and terminology extraction**”, in *Proceedings of the International Conference on Information Retrieval & Knowledge Management, CAMP'2010, Shah-Alam, Malaysia, March 16 – 18, pp. 314-319, 2010*, pp. 315–320.

I. Bounhas and Slimani, Y., “**نحو مقارنة شاملة لتحليل وتمثيل الوثائق العربية في الويب الاجتماعي الدلالي**”, in *الندوة الدولية لعلوم وهندسة الحاسوب, Hammamet, Tunisia, May 201-21, pp. 197-210, 2010*, pp. 197–210.

## 2009

I. Bounhas and Slimani, Y., “**A hybrid approach for Arabic multi-word term extraction**”, in *Proceedings of the International Conference on Natural Language Processing and Knowledge Engineering, NLP-KE'2009, Dalian, China, September 24-27*, pp.429-436, 2009.

I. Bounhas and Slimani, Y., “**A SOCIAL APPROACH FOR SEMI-STRUCTURED DOCUMENT MODELING AND ANALYSIS**”, in *Proceedings of the International Conference on Knowledge Management and Information Sharing (KMIS), Madeira, Portugal, October 6 - 8, 2009*, pp. 95–102.

## SOCIAL ACTIVITIES

---

### 2011-2016 **Member of the heading committee and responsible of information system at the Rose of Hope association of orphan care and sponsorship.**

- Organization of a journey about the importance of best practices to enhance the impact of civil society, Tunis, Tunisia, April 23, 2016.
- Organization of a journey about the role of civil society in regional development, Gabes, Tunisia, October 31, 2014.
- Organization of the first workshop for the promotion of civil society associations, Tunis, Tunisia, March 14, 2015.
- Organization of the first maghrebin orphan congress, Tunis, Tunisia, June 21, 2014.
- Organization of a journey about the role of charitable activities in human development, Tunis, Tunisia, March 15, 2014.
- Organization of the second national orphan congress, Tunis, Tunisia, June 27, 2013.
- Organization of a journey about the economic and social effects of charitable activities, Tunis, Tunisia, March 15, 2013.
- Organization of the first national orphan congress, Tunis, Tunisia, June 28, 2012.

## SKILLS

---

- **Databases Management Systems and Languages:** SQL, PL/SQL, Access, Oracle, SQL Server, MySQL
- **Web site Development:** HTML, SGML, XML, DOM, Java Script, Perl, ASP, ASP Dot Net.
- **Dynamic Web site administration:** FileZilla, Cpanel, Drupal Administration
- **Information retrieval and watch tools:** Vigilus, Orbiscope Observer, Copernic software, Web Site Watcher, Htrack, Sindup.
- **Content Management Systems:** Drupal, WordPress, Joomla.
- **Library and Bibliography Management Systems:** Greenstone, Koha, PMB.
- **Open Access tools:** AOI-PMH, Dspace, Eprints, Invenio.
- **Programming Languages:** Pascal, COBOL, C, C++, Visual C++, Visual Basic, Java, Dot Net, Python
- **Design and Modeling Methodologies and Languages:** MERISE, UML, Unified Process.
- **Computer aided software engineering:** Power AMC, Meta-Edit+.

## REFERENCES

---

### ACADEMIC INSTITUTIONS

- **ISG:** The Higher Institute of Management (Institut Supérieur de Gestion), Tunis University, Tunisia, [www.isg.rnu.tn](http://www.isg.rnu.tn)
- **ENSI:** The National School of Computer Science (Ecole Nationale des Sciences de l'Informatique), La Manouba University, Tunisia, [www.ensi.rnu.tn](http://www.ensi.rnu.tn)
- **FST:** Faculty of Sciences of Tunis, Tunis El Manar University, Tunisia, [www.fst.rnu.tn](http://www.fst.rnu.tn)
- **ISD:** Higher Institute of Documentation (Institut Supérieur de Documentation), La Manouba University, Tunisia.
- **ESCE:** Higher School of E-commerce (Ecole Supérieure de Commerce Electronique), La Manouba University, Tunisia. (Actually ESEN), [www.escem.rnu.tn](http://www.escem.rnu.tn).
- **ISTM:** Higher Institute of Medical Technologies (Institut Supérieur des Technologies Médicales), Tunis University, Tunisia.

### RESEARCH LABORATORIES & GROUPS

- **JARIR:** Joint group for Artificial Reasoning and Information Retrieval ([www.jarir.tn](http://www.jarir.tn))
- **LISI:** Laboratory of Computer Science for Industrial systems (Laboratoire d'Informatique pour les Systèmes Industriels), National Institute of Applied Sciences and Technologies, [www.insat.rnu.tn](http://www.insat.rnu.tn)
- **RIADI:** Laboratory of Research in Arabized Computer Science and Integrated Documentics (Laboratoire de Recherche en génie logiciel, Applications distribuées, systèmes Décisionnels et Imagerie intelligente), National School of Computer Science, La Manouba University, Tunisia, [www.riadi.rnu.tn](http://www.riadi.rnu.tn)
- **IRIT:** Informatics Research Institute of Toulouse, France, [www.irit.fr](http://www.irit.fr)