

Ashwin Ittoo, PhD - Curriculum Vitae

Ashwin Ittoo, PhD (2012), SAP Certified (2015)

- Associate Professor (Tenured), HEC Liège, Liège University, Belgium
- Associate Editor, Elsevier, Computers in Industry
- Research Associate, Japan Advanced Institute of Science and Technology (NLP laboratory), Japan
- Co-founder, Data Science Liège

Contact Information

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Address: HEC Liège, Rue Louvrex 14, Liège 4000, Belgium

LinkedIn: <https://be.linkedin.com/in/ashwin-ittoo>

Qualifications

University/Institution	Degree	Specialization	Date
<i>SAP</i>		Certification in Business Process Integration & Implementation	Jan 2015
<i>University of Groningen (The Netherlands)</i>	PhD	Natural Language Processing/Business Information Systems	5 th Jan 2012
<i>Nanyang Technological University (Singapore)</i>	M.Sc.	Computer Science-Industrial Engineering	14 th June 2006
<i>National University of Singapore (Singapore)</i>	B.Eng	Computer Engineering	August 2002

Areas of Expertise

- AI & Law (Algorithmic Collusion, Algorithmic Discrimination)
 - Natural Language Processing/Language Technology (NLP)
 - Machine Learning, Deep Learning
 - Reinforcement Learning
- (More details in Publication List)

Academic Career

Employer/Institution	Title	Date
<i>University of Liège/ULiège (Belgium)</i>	Associate Professor with Tenure (Information Systems/Analytics)	Nov 2016 - present
<i>Japan Advanced Institute of Science and Technology (Japan)</i>	Research Associate	Feb 2016-present
<i>University of Liège/ULiège</i>	Assistant Professor	2013- 2016
<i>University of Groningen (The Netherlands)</i>	Post-Doctoral Research Fellow	2012- 2013
<i>University of Groningen</i>	PhD Researcher	2008- 2012
<i>Republic Polytechnic, Singapore</i>	Lecturer	2006-2008

Professional Career

Institution (Country)	Title	Date
<i>Harvard Innovation Lab (USA)</i>	Consultant	2014-2016
<i>ArcPos Pte. Ltd (Singapore)</i>	Software Architect, Project Manager	2003-2004
<i>CicadaCube Pte. Ltd (Singapore)</i>	Software Architect, Project Manager	2002-2003

International Network

Country	Collaborator, Institution
The Netherlands	A. van den Bosch, <i>Radboud University Nijmegen</i> G. Bouma, <i>Rijksuniversiteit Groningen</i> J.C Wortmann, , <i>Rijksuniversiteit Groningen</i>
UK & Israel	A. Ezrachi, <i>University of Oxford</i>
France	E. Metais, <i>CNAM</i>
Australia	A. Kumar, <i>RMIT</i>

Funding (Awarded & In-Progress)

Awarding Institution	Amount
Chemical/Phosphate company (Belgium)	In progress
Japan Society for the Promotion of Science Fellowship	Proposal under evaluation
Web&Media companies (Rossel, PFS) (2015)	100 000 EUR
ULiège Scientific Research Grant (2014)	200 000 EUR
ULiège Classic Funds (2014)	30 000 EUR

PhD Supervision

PhD Candidate Name (Duration)	Project Topic/Title
Dr. Marc Jamouille, M.D. (2014-2018) Defended: Dec. 2017	Ontologies and Semantic Web for General/Family Medicine
Mr. Cédric Gillain (2016-Present)	Detection of Investors' Recommendations & Market Impact
Ms. Anne-Sophie Hoffait (2015-Present)	Linguistic Patterns and Effect on Text Helpfulness

PhD Committee Jury

Candidate Name, Institution	Project Title
Trieu Long Hai, <i>Japan Advanced Institute of Science and Tech</i> (June, 2017)	Algorithms for Low-Resource Language Translations
Arnaud Joly, <i>ULiège</i> (March, 2017)	Exploiting Random Projections and Sparsity with Random Forests and Gradient Boosting Methods
S. Abosuliman, <i>RMIT, Australia</i> (Nov., 2014)	A System Dynamics Emergency Logistics Models for Post- Disaster Relief Operations

Editorial Activities

Member of Editorial Board

- Associate Editor, Computers in Industry (Elsevier, <http://www.journals.elsevier.com/computers-in-industry/editorial-board>)

Editor/Co-Editor/Guest Editor

- Editor, Natural Language Processing and Information Systems, Springer, 2017, (<https://link.springer.com/book/10.1007/978-3-319-59569-6>)
- Guest Editor, Special Issue on Knowledge and Systems Engineering, *Data and Knowledge Engineering Journal*, Elsevier, In press, scheduled for end 2018.
- Guest Editor, Special Issue on Natural Language Processing and Text Analytics in Industry, *Computers in Industry Journal*, Elsevier, March 2016 (<http://www.sciencedirect.com/science/journal/01663615/78>)
- Guest Editor, Special Issue on Natural Language Processing and Information Systems, *Data and Knowledge Engineering Journal*, Elsevier, March 2014 (<http://www.sciencedirect.com/science/journal/0169023X/90>)
- Editor, Natural Language Processing and Information Systems, Springer, 2012, (<http://www.springer.com/us/book/9783642311772>)

Member of Journal Reviewing Committee

- Computers in Industry (Elsevier), <http://www.journals.elsevier.com/computers-in-industry/>
- Nature Scientific Reports (Nature), <http://www.nature.com/srep/>
- Data and Knowledge Engineering, (Elsevier), <http://www.journals.elsevier.com/data-and-knowledge-engineering/>
- Future Generation Computer Systems (Elsevier), <http://www.journals.elsevier.com/future-generation-computer-systems/>

Scientific Conferences

Chair

- General Chair, 22nd International Conference on Applications of Natural Language to Information Systems, 2017, <http://nldb2017.conferences.hec.ulg.ac.be/>
- Organization Chair, 17th International Conference on Applications of Natural Language to Information Systems, 2012, <http://www.let.rug.nl/nldb12/registration.php>

Conference Program/Scientific Committee

- International Conference on Applications of Natural Language to Information Systems 2012-Present
 - www.nldb.org
- International Conference on Knowledge and Systems Engineering 2015-Present
 - <http://fit.mta.edu.vn/kse2016/conferencecommittee.aspx>
- Pacific Asia Conference on Information Systems 2012
 - <http://aisel.aisnet.org/pacis2012/>

Invited Conference Keynotes/Industry & Public Seminars

2018

- 5th International Conference on Information & Computer Science (IEEE)
 - <http://nafosted-nics.org/Keynote.php>
- Data Science Liège Community, Feb. 2018

2017

- Machine Learning Applications in Insurance, Ethias, Liège, Feb 2017

2016

- Deep Learning/Machine Learning, Agoria/Belgian National ICT day, Oct. 2016, with L. de Raet (KUL), H. Bersini (ULB)

2015

- B2B E-Commerce, Etilux, Liège, May 2015
- IoT Business Models, Prayon, Liège, Mars 2015
- Digital Transformation, ISSOL, Dison, Mars 2015

2014

- Big Data & Digital Transformation, Febelfin, Liège, Nov. 2014
- Financial Big Data, SRIW, Spa, Sept. 2014

Consultancy/Service as Expert

Brussels School of Competition (Feb. 2018)

- Lecturer/Expert, Algorithmic Compliance; Law, Cognitive Technologies & Artificial Intelligence
- With V. Fransen (KUL), A. de Steel (Univ. Namur)
- <http://www.bsc.brussels/lawAndAi/sessions>

Leading Fellow Foundation (Aug. 2017)

- Member of evaluation committee
- <http://leadingfellows.eu/>

Competition and Innovation Institute (Dec. 2016)

- Member of expert panel on algorithms and virtual competition
- <http://www.lcii.eu/event/lcii-morning-briefing-virtual-competition/>

Innoviris, Brussels Institute for Research and Innovation (2016-present)

- Member of expert panel (Computational Linguistics, Natural Language Processing)
- <http://www.innoviris.be/en>

Chambre de Commerce et de l'Industrie/CCI (March 2016)

- Expert interview on Digital Marketing
- Available at : <http://cdn.ccilvn.be/ccimag/mars2016/est.pdf>

European Commission and Lisbon Council (Oct. 2014)

- Report on Mapping Text and Data Mining in EU
- Available at <http://www.lisboncouncil.net/publication/publication/109-mapping-text-and-data-mining-in-academic-and-research-communities-in-europe.html>
- Collaboration with Dr. S. Filippov (Delft University of Technology, The Netherlands)

Education & Teaching

MASTERS COURSES TAUGHT (2013-PRESENT)

Course	Main Themes
<i>Web & Text Analytics</i>	Text Mining, Neural Language Models, Sentiment Analysis Practical: scikit-learn/Python, R, TensorFlow
E-Commerce	PageRank, Adword/Balance Algo, Business & Revenue models, Consumer Behavior and Purchase Process Practical: PHP, MySQL, AJAX/Jquery
<i>Info. Tech. Management/Management Information Systems</i>	ERP systems (SAP), business process modeling, business process re-engineering Practical: Java programming, BPMN 2.0, MySQL, UML

EXECUTIVE MASTERS COURSES TAUGHT (2013-PRESENT)

Program	Course	Main Theme
<i>EMBA Asia (China, Malaysia, Vietnam)</i>	Information Management	ERP systems, Inventory Management, BPMN
<i>Management Certificate, funded by EU Social Funds</i>	Statistical Data Analysis for Business	Regressions, Decision Trees, Sentiment Analysis, Business Intelligence Practical: R

CURRICULUM/PROGRAM DEVELOPMENT

Co-founder Digital Marketing and Sales Management Chair and Program(2014)

- Financing from enterprises (100,000 EUR)

Program Committee Member Digital Business Masters Program (2017)

- Main role in defining program/courses

Program Committee Member Data Science Masters Program (2017)

- Joint program with Computer Science department

MEDIA (VIDEO, AUDIO, PRINT)

My research has received significant attention from the media (video, audio and print).

- Digital Wallonia, <https://www.digitalwallonia.be/tal/>
- Agoria, Belgian National ICT Data
<https://www.agoria.be/GenA/WWW.wsc/rep/Prg/AppContent?sessionlid=3&vapplication=GenA>
- Conference on Digital Marketing given to executives at the Rossel Group -
<https://youtu.be/YxzN3gC9PWw> (in French)
- Chambre de Commerce et de l'Industrie/CCI,
<http://cdn.ccilvn.be/ccimag/mars2016/est.pdf>
- Robust algorithms for processing noisy text -
[http://download.omroep.nl/secure/b510bf70192e452d035ce7da1daa4952/4ef32c8b/portal/radiomanager/hours_archive/radio5/2011/12/21/\[Radio%205\]%20Logging%20Radio%205%2020111221%202000.mp3](http://download.omroep.nl/secure/b510bf70192e452d035ce7da1daa4952/4ef32c8b/portal/radiomanager/hours_archive/radio5/2011/12/21/[Radio%205]%20Logging%20Radio%205%2020111221%202000.mp3) (starts at 14:35, in Dutch by G. Bouma, Univ. Of Groningen)
- Digital Marketing and Analytics:
<http://cdn.ccilvn.be/ccimag/mars2016/est.pdf>
- Breakthrough in the search of ungrammatical texts
(<http://www.kennislink.nl/publicaties/doorbraak-in-het-zoeken-door-onleesbare-teksten>)
- Researchers develop an algorithm for efficiently mining noisy, unstructured texts
(<http://www.computable.nl/artikel/nieuws/development/4334110/1277180/rugonderzoekers-ontwikkelen-algoritme.html>)

Publications et communications de Ashwin Ittoo [u220239]

Legend


Bibliometric indicators linked to the journal (for those whose ISSN has been indicated by the author)

- **IF = Impact factor** Thomson ISI. Are indicated : IF of the year of publication and IF of the last edition of JCR (**last**), « ? » if not known by ORBi yet ; « - » if non-existent.
- **IF5** : idem as IF but for a 5 year period (new indicator since 2009).
- **EigenF = EigenFactor** (see : <http://www.eigenfactor.org/>).
- **Article Infl. = Article Influence** : EigenFactor divided by the number of articles published in the journal.
→ More information ? <http://orbi.uliege.be/rpt#rev>

Bibliometric indicators linked to the article

- **ORBi viewed** = total number of visualizations of a reference on ORBi (of which X internally within the ULiège).
- **ORBi downloaded** = total number of downloads of the full text via ORBi, including requests copy.
- **SCOPUS®** = number of citations picked up by SCOPUS®.
→ More information ? <http://orbi.uliege.be/rpt#art>

(Warning : According to disciplines, some bibliometric indicators may not be relevant)

 etc: full text of the document available in Open Access

 etc: full text of the document available in restricted access

Peer reviewed (verified by ORBi) : the information is available in the ORBi journals database

Dissertations and Theses




Doctoral thesis


-  Ittoo, A. (2012). *Natural Language Processing Meets Business - Algorithms for Mining Meaning from Corporate Texts*. Unpublished doctoral thesis, University of Groningen, Groningen, Pays-Bas.
<http://hdl.handle.net/2268/172768>
ORBi viewed: **61** (4 ULiège) ; downloaded: **203** (4 ULiège) — SCOPUS®: -

Publications

1. Books

Direction and/or edition of collective works

-  Frasincar, F., Ittoo, A., Nguyen, L. M., & Metais, E. (Eds.). (2017). *Natural Language Processing and Information Systems*. Springer.
<http://hdl.handle.net/2268/214412>
ORBi viewed: **62** (3 ULiège) ; downloaded: **149** (2 ULiège)
-  Ittoo, A., Nguyen, L. M., & van den Bosch, A. (Eds.). (2016). Special issue on natural language processing and text analytics in industry. *Computers in Industry*, 78.
<http://hdl.handle.net/2268/195767>
Peer reviewed (verified by ORBi) ✓
ORBi viewed: **57** (7 ULiège) ; downloaded: **18** (4 ULiège) — SCOPUS®: **0**
IF 2016: ?; last: **1.685**; IF5: **2.052** — EigenF 2016: ?; last: **0.003** — Article Infl. 2016: ?; last: **0.5**
-  Bouma, G., Ittoo, A., Basile, V., Metais, E., & Wortmann, H. (Eds.). (2014). Special Issue on Natural Language Processing and Information Systems. *Data & Knowledge Engineering*, 90.
<http://hdl.handle.net/2268/172769>
Peer reviewed (verified by ORBi) ✓
ORBi viewed: **32** (10 ULiège) ; downloaded: **49** (2 ULiège) — SCOPUS®: **0**
IF 2014: **1.115**; last: **1.5**; IF5: **1.69** — EigenF 2014: **0.003**; last: - — Article Infl. 2014: **0.7**; last: -


 Bouma, G., Ittoo, A., Basile, V., Wortmann, H., & Metais, E. (Eds.). (2014). *Special Issue on Natural Language Processing and Text Analytics in Industry*. Elsevier Science.
<http://hdl.handle.net/2268/164510>
 ORBi viewed: **142** (22 ULiège) ; downloaded: **76** — SCOPUS®: -


Bouma, G., Ittoo, A., Metais, E., & Wortmann, H. (Eds.). (2012). *Natural Language Processing and Information Systems*. Springer.
<http://hdl.handle.net/2268/158767>
 ORBi viewed: **30** (6 ULiège) — SCOPUS®: -


2. Articles in academic journals


With peer reviewing


With an international target audience

 Ittoo, A., & Petit, N. (2017, October). Algorithmic Pricing Agents and Tacit Collusion: A Technological Perspective. *IO: Regulation, Antitrust & Privatization SSRN*.
<http://hdl.handle.net/2268/218873>
 Peer reviewed ✓
 ORBi viewed: **19** (3 ULiège) ; downloaded: **96** (2 ULiège)


 Jamouille, M., Resnick, M., Grosjean, J., Ittoo, A., Cardillo, E., Vander Stichele, R., Darmoni, S., & Vanmeerbeek, M. (2017). Development, dissemination, and applications of a new terminological resource the Q-Code taxonomy for professional aspects of General Practice / Family Medicine. *European Journal of General Practice, accepted*.
<http://hdl.handle.net/2268/215162>
 Peer reviewed (verified by ORBi) ✓
 ORBi viewed: **227** (9 ULiège) ; downloaded: **39** (1 ULiège) — SCOPUS®: **0**
 IF 2017: ?; last: **1.364**; IF5: **1.23** — EigenF 2017: ?; last: **<0.001** — Article Infl. 2017: ?; last: **0.4**

 Jamouille, M., Resnick, M., Ittoo, A., Cardillo, E., Vander Stichele, R., & Vanmeerbeek, M. (2017). Analysis of definitions of General Practice/Family Medicine and Primary Health Care. *British Journal of General Practice, 0050*.
<http://hdl.handle.net/2268/210049>
 Peer reviewed (verified by ORBi) ✓
 ORBi viewed: **293** (12 ULiège) ; downloaded: **120** (5 ULiège)
 IF 2017: ?; last: **2.741**; IF5: **2.978** — EigenF 2017: ?; last: **0.009** — Article Infl. 2017: ?; last: **1.1**

 Ittoo, A., Nguyen, L. M., & van den Bosch, A. (2016, March). Editorial: Special issue on natural language processing and text analytics in industry. *Computers in Industry*.
<http://hdl.handle.net/2268/194117>
 Peer reviewed (verified by ORBi) ✓
 ORBi viewed: **186** (15 ULiège) ; downloaded: **136** (11 ULiège) — SCOPUS®: **0**
 IF 2016: ?; last: **1.685**; IF5: **2.052** — EigenF 2016: ?; last: **0.003** — Article Infl. 2016: ?; last: **0.5**


 Ittoo, A., Nguyen, L. M., & van den Bosch, A. (2016, March). Text analytics in industry: Challenges, desiderata and trends. *Computers in Industry, (78)*.
<http://hdl.handle.net/2268/191593>
 Peer reviewed (verified by ORBi) ✓
 ORBi viewed: **105** (22 ULiège) ; downloaded: **579** (15 ULiège) — SCOPUS®: **7** (7 self citations excluded)
 IF 2016: ?; last: **1.685**; IF5: **2.052** — EigenF 2016: ?; last: **0.003** — Article Infl. 2016: ?; last: **0.5**

 Bouma, G., Ittoo, A., Basile, V., Metais, E., & Wortmann, H. (2014). *Natural Language Processing and Information Systems. Data & Knowledge Engineering*.
<http://hdl.handle.net/2268/172778>
 Peer reviewed (verified by ORBi) ✓
 ORBi viewed: **59** (15 ULiège) ; downloaded: **48** (9 ULiège) — SCOPUS®: -
 IF 2014: **1.115**; last: **1.5**; IF5: **1.69** — EigenF 2014: **0.003**; last: - — Article Infl. 2014: **0.7**; last: -



 Ittoo, A., & Bouma, G. (2013, August). Minimally-supervised learning of domain-specific causal relations using an open-domain corpus as knowledge base. *Data & Knowledge Engineering*.
<http://hdl.handle.net/2268/158358>
 Peer reviewed (verified by ORBi) ✓
 ORBi viewed: **67** (27 ULiège) ; downloaded: **9** (8 ULiège) — SCOPUS®: **4** (3 self citations excluded)
 IF 2013: **1.489**; last: **1.5**; IF5: **1.69** — EigenF 2013: **0.004**; last: **0.003** — Article Infl. 2013: **0.7**; last: **0.7**






-  Ittoo, A., & Bouma, G. (2013). Term extraction from sparse, ungrammatical domain-specific documents. *Expert Systems with Applications*, 40(7), 2530-2540.
<http://hdl.handle.net/2268/158437>
Peer reviewed (verified by ORBi) ✓
ORBi viewed: **39** (7 ULiège) ; downloaded: **6** (5 ULiège) — SCOPUS®: **15** (11 self citations excluded)
IF 2013: **1.965**; last: **2.981**; IF5: **2.879** — EigenF 2013: **0.054**; last: **0.058** — Article Infl. 2013: **0.5**; last: **0.6**
-  Ittoo, A., & Bouma, G. (2013). Minimally-supervised extraction of domain-specific part-whole relations using Wikipedia as knowledge-base. *Data & Knowledge Engineering*, 85.
<http://hdl.handle.net/2268/158771>
Peer reviewed (verified by ORBi) ✓
ORBi viewed: **37** (6 ULiège) ; downloaded: **2** (2 ULiège) — SCOPUS®: **19** (16 self citations excluded)
IF 2013: **1.489**; last: **1.5**; IF5: **1.69** — EigenF 2013: **0.004**; last: **0.003** — Article Infl. 2013: **0.7**; last: **0.7**
-  Brombacher, A., Hopma, E., Ittoo, A., Lu, Y., Luyk, I., Maruster, L., Ribeiro, J., Weijters, T., & Wortmann, H. (2011). Improving Product Quality and Reliability with Customer Experience Data. *Quality and Reliability Engineering International*, 28(8), 873-886.
<http://hdl.handle.net/2268/158439>
Peer reviewed (verified by ORBi) ✓
ORBi viewed: **78** (6 ULiège) ; downloaded: **2** (1 ULiège) — SCOPUS®: **4** (4 self citations excluded)
IF 2011: **0.7**; last: **1.457**; IF5: **1.533** — EigenF 2011: **0.002**; last: - — Article Infl. 2011: **0.3**; last: -
-  Ittoo, A., & Bouma, G. (2010). On Learning Subtypes of the Part-Whole Relation: Do Not Mix Your Seeds. *Proceedings of the Association for Computational Linguistics*.
<http://hdl.handle.net/2268/158795>
Peer reviewed ✓
ORBi viewed: **14** (1 ULiège) ; downloaded: **0** — SCOPUS®: **12** (10 self citations excluded)
-  Zhang, L., & Ittoo, A. (2009). Development of an RMS model based on colored object-oriented Petri nets with changeable structures. *IEEE Proceedings of the 16th International Conference on Industrial Engineering and Engineering Management*.
<http://hdl.handle.net/2268/158800>
Peer reviewed ✓
ORBi viewed: **14** ; downloaded: **0** — SCOPUS®: **0**
-  Ittoo, A., Zhang, Y. Y., & Jiao, R. (2006). A Text Mining-based Recommendation System for Customer Decision Making in Online Product Customization. *IEEE Proceedings of International Conference on Management of Innovation and Technology*.
<http://hdl.handle.net/2268/158803>
Peer reviewed ✓
ORBi viewed: **83** (3 ULiège) ; downloaded: **0** — SCOPUS®: -

With a national target audience

-  Jamouille, M., Cardillo, E., Ittoo, A., Vander Stichele, R., Resnick, M. P., Grosjean, J., Darmoni, S., & Vanmeerbeek, M. (2018). Indexing grey multilingual literature in General Practice: Family medicine in the era of semantic web. *International Conference Series on Grey Literature, 2017-October*, 61-84.
<http://hdl.handle.net/2268/224200>
Peer reviewed ✓
ORBi viewed: **35** (2 ULiège) ; downloaded: **2** (1 ULiège) — SCOPUS®: **0**

3. Chapters of collective works

-  Jamouille, M., Resnick, M., Ittoo, A., Vander Stichele, R., Cardillo, E., Grosjean, J., Darmoni, S., & Vanmeerbeek, M. (2017). Indexing grey multilingual literature in General Practice in the era of Semantic Web. *The Grey Journal*.
<http://hdl.handle.net/2268/210490>
Peer reviewed ✓
ORBi viewed: **108** (8 ULiège) ; downloaded: **62** (2 ULiège)
-  Jamouille, M., Grosjean, J., Ittoo, A., Resnick, M., Treuherz, A., Vander Stichele, R. H., Cardillo, E., SHAMENEK, F., & Vanmeerbeek, M. (2017). A terminology in General Practice / Family Medicine to represent non-clinical aspects for various usages. In R. Randell et al. (Ed.), *Informatics for Health: Connected Citizen-Led Wellness and Population Health* (pp. 235:471-475). IOS Press.
<http://hdl.handle.net/2268/206527>
Peer reviewed ✓
ORBi viewed: **112** (21 ULiège) ; downloaded: **69** (10 ULiège) — SCOPUS®: **1** (0 self citations excluded)

-  Ittoo, A. (2016). Predicting Review Helpfulness. *Proceedings*.
<http://hdl.handle.net/2268/194149>
Peer reviewed ✓
ORBi viewed: **56** (7 ULiège) ; downloaded: **270** (9 ULiège) — SCOPUS®: -
- Ittoo, A., Szirbik, N., Huitema, G., & Wortmann, H. (2013). Simulation Gaming and Natural Language Processing for Modelling Stakeholder Behavior in Energy Investments. *ICS'2013 Proceedings*.
<http://hdl.handle.net/2268/195768>
Peer reviewed ✓
ORBi viewed: **34** (1 ULiège) — SCOPUS®: -
-  Ittoo, A., & Bouma, G. (2011). Extracting explicit and implicit causal relations from sparse, domain-specific texts. *Lecture Notes in Computer Science*. Springer.
<http://hdl.handle.net/2268/158769>
Peer reviewed ✓
ORBi viewed: **21** (1 ULiège) ; downloaded: **0** — SCOPUS®: **9** (8 self citations excluded)
-  Ittoo, A., Bouma, G., Maruster, L., & Wortmann, H. (2010). Extracting Meronymy Relationships from Domain-Specific, Textual Corporate Databases. *Lecture Notes in Computer Science*. Springer.
<http://hdl.handle.net/2268/158770>
Peer reviewed ✓
ORBi viewed: **36** ; downloaded: **2** — SCOPUS®: **6** (5 self citations excluded)
-  Ittoo, A., Maruster, L., Wortmann, H., & Bouma, G. (2010). Texttractor: A Framework for Extracting Relevant Domain Concepts from Irregular Corporate Textual Datasets. *Lecture Notes in Business Information Processing* (Springer).
<http://hdl.handle.net/2268/158791>
Peer reviewed ✓
ORBi viewed: **18** (1 ULiège) ; downloaded: **3** — SCOPUS®: **6** (2 self citations excluded)
-  Ittoo, A., & Bouma, G. (2009). Semantic selectional restrictions for disambiguating meronymy relations. *LOT Series*.
<http://hdl.handle.net/2268/158792>
Peer reviewed ✓
ORBi viewed: **27** ; downloaded: **0** — SCOPUS®: -






6. Reports


Research reports

Research reports

Miscellaneous

Conferences for general public

-  Ittoo, A. (2016). *Mining Customer Behavior for Churn Management*. Paper presented at -.
<http://hdl.handle.net/2268/196061>
ORBi viewed: **37** (4 ULiège) ; downloaded: **101** (2 ULiège) — SCOPUS®: -
-  Ittoo, A. (2015). *Plateforme Digitale et le B2B*. Paper presented at -.
<http://hdl.handle.net/2268/194152>
ORBi viewed: **146** (5 ULiège) ; downloaded: **577** (7 ULiège) — SCOPUS®: -
-  Ittoo, A. (2015). *Digital Revolution and Manufacturing*. Paper presented at - Liège.
<http://hdl.handle.net/2268/194549>
ORBi viewed: **31** (3 ULiège) ; downloaded: **141** (3 ULiège) — SCOPUS®: -
-  Ittoo, A. (2015). *Internt of Things*. Paper presented at - Liege.
<http://hdl.handle.net/2268/194551>
ORBi viewed: **25** (3 ULiège) ; downloaded: **235** (2 ULiège) — SCOPUS®: -
-  Ittoo, A. (2014). *La Transformation Digitale*. Paper presented at -.
<http://hdl.handle.net/2268/194151>
ORBi viewed: **99** (10 ULiège) ; downloaded: **52** (6 ULiège) — SCOPUS®: -

-  Ittoo, A. (2014). *Big Data Analytics and the Finance Industry*. Paper presented at SRIW Conference.
<http://hdl.handle.net/2268/195771>
ORBi viewed: **72** (2 ULiège) ; downloaded: **137** (2 ULiège) — SCOPUS®: -