The 23rd International Conference on Natural Language & Information Systems (NLDB’2018)
13rd - 15th June 2018, Paris, France

Conference Program
Wednesday, June 13th

9:00-10:00 Registration / 9:30-10:00 Coffee-Break

10:00-11:15 (Room Gaston Planté): Opening session
10:00-10:15: Greetings Elisabeth Métais and Max Silberztein

Session chair: Max Silberztein

11:15-12:35 (Room Gaston Planté): Text classification
Session chair: Vijayan Sugumaran
11:15-11:45 United we stand: Using multiple strategies for topic labeling
Antoine Gourru, Julien Velcin, Mathieu Roche, Christophe Gravier and Pascal Poncelet.

11:45-12:15 Addressing Unseen Word Problem in Text Classification
Promod Yenigalla, Sibsambhu Kar, Chirag Singh, Ajay Nagar and Gaurav Mathur.

12:15-12:35 Overview of Uni-modal and Multi-modal Representations for Classification Tasks
Aryeh Wiesen and Yaakov Hacohen-Kerner.

12:35-14:00: Lunch

14:00-15:30 (Room Gaston Planté): Ontology Engineering
Session chair: Elena Kornyshova
14:00-14:30 Ontology Development through Concept Map and Text Analytics: The Case of Automotive Safety Ontology
Zirun Qi and Vijayan Sugumaran.

14:30-15:00 A Fuzzy-Based Approach for Representing and Reasoning on Imprecise Time Intervals in Fuzzy-OWL 2 Ontology
Fatma Ghorbel, Fayçal Hamdi, Elisabeth Métais, Nebrasse Ellouze and Faiez Gargouri.

15:00-15:30 Assessing the Impact of Single and Pairwise Slot Constraints in a Factor Graph Model for Template-based Information Extraction
Hendrik Ter Horst, Matthias Hartung, Roman Klinger, Nicole Brazda, Hans Werner Müller and Philipp Cimiano.

14:00-14:40 (Room Aimé Laussedat): Text similarities and Plagiarism Detection
Session chair: Nikola Milosevic
14:00-14:20 HYPLAG: Hybrid Arabic Text Plagiarism Detection System
Bilal Ghanem, Labib Arafeh, Paolo Rosso and Fernando Sánchez-Vega.

14:20-15:00 On the Semantic Similarity of Disease Mentions in MEDLINE and Twitter
Camilo Thorne and Roman Klinger.

14:40-15:30 (Room Aimé Laussedat): NLP
Session chair: Paolo Rosso
14:40-15:10 Verbal Multi-Word Expressions in Yiddish
Chaya Liebeskind and Yaakov Hacohen-Kerner.

15:10-15:30 Grammar Checking by Means of Error Correcting Automaton
Oleksandr Marchenko, Anatoly Anisimov, Igor Zavadskyi and Yehor Melnykov.
15:30-15:55 **Coffee Break**

16:00-18:00 **Visit at the Museum – Musée des Arts et Métiers**

(60 Rue Réaumur, 75003 Paris)

18:00-21:00 **Welcoming Cocktail – Salon d’Honneur**

(2, rue Conté, PARIS 75003, Access 39, 1st floor, Subway station “Arts et Métiers”)

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**Thursday, June 14th**

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<td>Wael Alkhatib, Christoph Rensing, Svenja Neitzel and Saba Sabrin.</td>
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10:30-11:00 **Coffee Break**
11:00-12:30 (Room Gaston Planté): **Semantics-Based Models and Applications**  
*Session chair: Helmut Horacek*

11:00-11:20 **Toward Human-Like Robot Learning**  
Sergei Nirenburg, Marjorie McShane, Stephen Beale, Alessandro Roncone, Peter Wood, Olivier Magnin and Brian Scassellati.

11:20-11:40 **Identifying Argumentative Paragraphs: Towards Automatic Assessment of Argumentation in Theses**  
Jesús Miguel García-Gorrostieta and Aurelio Lopez.

11:40-12:00 **Semantic Mapping of Security Events to Known Attack Patterns**  
Xiao Ma, Elnaz Davoodi and Leila Kosseim.

12:00-12:30 **Probabilistic Approach to Concept Based Similarity of Short Texts**  
Karpaga Priyaa K., Vijayarani J., Naadan U. K., Manjula D. and Geetha T. V.

11:00-12:20 (Room Aimé Laussedat): **NLP**  
*Session chair: Matthias Hartung*

11:00-11:20 **Mention Clustering to Improve Portuguese Semantic Coreference Resolution**  
Evandro Fonseca, Aline Aver Vanin and Renata Vieira.

Akshata Phadte.

11:40-12:00 **A TF-IDF and Co-occurrence Based Approach for Events Extraction from Arabic News Corpus**  
Amina Chouigui, Oussama Ben Khiroun and Bilel Elayeb.

12:00-12:20 **Annotating Relations between Named Entities with Crowdsourcing**  
Sandra Collovini, Bolivar Pereira, Henrique D.P. dos Santos and Renata Vieira

**12:35-14:00: Lunch**

14:00-15:10 (Room Gaston Planté): **Information Mining**  
*Session chair: Sergei Nirenburg*

14:00-14:30 **Classification of intangible social innovation concepts**  
Nikola Milosevic, Abdullah Gok and Goran Nenadic

14:30-14:50 **An Unsupervised Approach for Cause-Effect Relation Extraction from Biomedical Text**  
Raksha Sharma, Girish Palshikar and Sachin Pawar.

14:50-15:10 **A Supervised Learning to Rank approach for Dependency based Concept Extraction and Repository based boosting for Domain Text Indexing**  
Kodaikkaavirinaadan Urkalan, Geetha T V, Manjula D, Viswapriya Ravikumar, Karthick C and Kanimozhi U

**15:10-15:40 Coffee Break**
**Session chair: Raja Chiky**

16:40-17:20 (Room Gaston Planté): **Recommendation systems**
**Session chair: Raja Chiky**

16:40-17:10 Silent Day Detection on Microblog Data
Kuang Lu and Hui Fang.

17:10-17:30 Smart Entertainment - A Critiquing Based Dialog System for Eliciting User Preferences and Making Recommendations
Roshni Ramnani, Shubhashis Sengupta, Tirupal Rao Ravilla and Sumitraj Ganapat Patil.

19:30: **Gala Diner at Restaurant “Chez Jenny”**
*(39 boulevard du Temple, 75003 Paris, Subway station “République”)*

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**Friday, June 15th**

9:00-10:30 (Room Gaston Planté): **Opinion Mining and Sentiment Analysis in Social Media**
**Session chair: Dhanabala Manjula ?**

9:00-9:30 A Proposal for Book Oriented Aspect Based Sentiment Analysis: Comparison Over Domains

9:30-9:50 Twitter Sentiment Analysis Experiments Using Word Embeddings on Datasets of Various Scales
Yusuf Arslan, Dilek Küçük and Aysenur Birturk.

9:50-10:10 A Deep Learning Approach for Sentiment Analysis Applied to Hotel’s Reviews
Joana Gabriela de Souza, Alcione Oliveira, Guidson Andrade and Alexandra Moreira.

10:10-10:30 Automatic Identification and Classification of Misogynistic Language on Twitter
Maria Anzovino, Elisabetta Fersini and Paolo Rosso

9:00-9:40 (Room Aimé Laussedat): **NLP**
**Session chair: Walter Koza**

9:00-9:20 Multi-Word expressions annotations effect in document classification task
Dhekra Najar, Slim Mesfar and Henda Hajjami Ben Ghezala.

9:20-9:40 RDST: A Rule-based Decision Support Tool
Sondes Dardour and Hela Fehri

9:40 - 10h30 (Room Aimé Laussedat): **Translation and Foreign Language Querying**
**Session chair: Héla Fehri**

9:40-10:10 Cross-Language Text Summarization using Sentence and Multi-Sentence Compression
Elvys Linhares Pontes, Stéphane Huet, Juan-Manuel Torres-Moreno and Andréa Carneiro Linhares.

10:10-10:30 Arabic Readability Assessment for Foreign Language Learners
Naoual Nassiri, Abdelhak Lakhouaja and Violetta Cavalli-Sforza.

10:30-11:00 **Coffee Break**
11:00-12:00 (Room Gaston Plante): **Opinion Mining and Sentiment Analysis in Social Media**
*Session chair: Tamara Alvarez Lopez*

**Stance Evolution and Twitter Interactions in an Italian Political Debate**
Mirko Lai, Viviana Patti, Giancarlo Ruffo and Paolo Rosso.

**Identifying and Classifying Influencers in Twitter only with Textual Information**
Victoria Nebot, Francisco Rangel, Rafael Berlanga and Paolo Rosso

11:00-12:00 (Room Aimé Laussedat): **Neural Networks Based Approaches**
*Session chair: Márccis Pinnis*

**Multimodal Language Independent App Classification Using Images and Text**
Kushal Singla, Niloy Mukherjee and Joy Bose.

**T2S: An Encoder-Decoder Model for Topic-based Natural Language Generation**
Wenjie Ou, Chaotao Chen and Jiangtao Ren

**A Supervised Learning Approach for ICU Mortality Prediction based on Unstructured Electrocardiogram Text Reports**
Gokul S Krishnan and Sowmya Kamath S.

**12:00-13:30: Lunch**

13:30-14:30 (Room Gaston Plante): **Neural Networks Based Approaches**
*Session chair: Stéphane Huet*

**Accommodating Phonetic Word Variations Through Generated Confusion Pairs for Hinglish Handwritten Text Recognition**

**Arabic Question Classification Using Support Vector Machines and Convolutional Neural Networks**
Asma Aouichat, Mohamed Seghir Hadj Ameur and Ahmed Guessoum.

**Using k-means for redundancy and inconsistency detection: application to industrial requirements**
Manel Mezghani, Juyeon Kang and Florence Sèdes.

**14:30-15:10: Closing session**
Posters (Posters will be displayed during the whole conference)

*String Kernels for Polarity Classification: A Study across Different Languages*, Rosa M. Giménez-Pérez, Marc Franco-Salvador and Paolo Rosso

*Integration of text- and web-mining results in EpidVis (Demo)*, Samiha Fadloun, Arnaud Sallaberry, Alizé Mercier, Elena Arsevska, Pascal Poncelet and Mathieu Roche

*Automatic Detection of Negated Findings with NooJ. First Results*, Walter Koza

*Gemedoc: a text similarity annotation platform*, Jacques Fize, Mathieu Roche and Maguelonne Teisseire

*Integration of Neural Machine Translation Systems for Formatting-rich Document Translation*, Mārcis Pinnis, Raivis Skadins Valters Šics and Tom Miks

*Part-of-speech for Konkani-English Code Mixed Social Media Text*, Akshata Phadte and Radhiya Arsekar

*Word2vec for Arabic word sense disambiguation*, Rim Laatar, Chafik Aloulou and Lamia Hadrich Belguith

*How to Deal with Inaccurate Service Descriptions in the Use Case of OTF Computing: Current Approaches and Open Challenges*, Frederik Simon Bäumer and Michaela Geierhos

*Assessing the Effectiveness of Affective Lexicons for Depression Classification*, Noor Fazilla Abd Yusof, Chenghua Lin and Frank Guerin