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**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

10:15-11:15: **Jean-Gabriel Ganascia** (Invited Speaker), “**Literary side of Digital Humanities - generalities and application to intertextuality study**”.

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 Hachohen-Kerner.

12:35-14:00: Lunch

14:00-15:30 (Room Gaston Planté): **Ontology Engineering**

Session chair: Elena Kornysheva

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.

14:20-14:40 *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 Hachohen-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”)

Thursday, June 14th

9:00-10:20 (Room Gaston Planté): **Text classification**

Session chair: Yaakov Hacoheh-Kerner

9:00-9:30 *Evaluating Thesaurus-Based Topic Models*
Natalia Loukachevitch and Kirill Ivanov.

9:30-10:00 *Classifying Companies by Industry using Word Embeddings*
Martin Lamby and Daniel Iseemann.

10:00-10:20 *Towards Ontology-based Training-less Multi-label Text Classification*
Wael Alkhatib, Christoph Rensing, Svenja Neitzel and Saba Sabrin.

9:00-10:20 (Room Aimé Laussedat): **NLP**
Session chair: Elisabetta Fersini

9:00-9:30 *Processing medical binary questions in standard Arabic using NooJ*
Bessaies Essia, Mesfar Slim and Ben Ghezela Henda.

9:30-10:00 *Stochastic Approach to Aspect Tracking*
Maoto Inoue and Takao Miura

10:00-10:20 *Transducer cascade to parse Arabic corpora*
Nadia Ghezaiel Hammouda, Roua Torjmen and Kais Haddar.

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.

11:20-11:40 *Resource Creation for Training and Testing of Normalisation Systems for Konkani-English Code-Mixed Social Media Text*
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

15:40-16:40 (Room Gaston Planté): **Serge Rosmorduc** (Invited Speaker), “**Encoding an Ancient Corpus, Issues and Perspectives**”.

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”)

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*
Tamara Álvarez-López, Milagros Fernández-Gavilanes, Enrique Costa-Montenegro and Patrice Bellot.

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 Najjar, 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 Planté): **Opinion Mining and Sentiment Analysis in Social Media**

Session chair: Tamara Alvarez Lopez

11:00-11:30 *Stance Evolution and Twitter Interactions in an Italian Political Debate*

Mirko Lai, Viviana Patti, Giancarlo Ruffo and Paolo Rosso.

11:30-12:00 *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: Mārcis Pinnis

11:00-11:20 *Multimodal Language Independent App Classification Using Images and Text*

Kushal Singla, Niloy Mukherjee and Joy Bose.

11:20-11:40 *T2S: An Encoder-Decoder Model for Topic-based Natural Language Generation*

Wenjie Ou, Chaotao Chen and Jiangtao Ren

11:40-12:00 *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 Planté): **Neural Networks Based Approaches**

Session chair: Stéphane Huet

13:30-14:00 *Accommodating Phonetic Word Variations Through Generated Confusion Pairs for Hinglish Handwritten Text Recognition*

Soumyajit Mitra, Vikrant Singh, Pragya Paramita Sahu, Viswanath Veera and Shankar M Venkatesan.

14:00-14:30 *Arabic Question Classification Using Support Vector Machines and Convolutional Neural Networks*

Asma Aouichat, Mohamed Seghir Hadj Ameer and Ahmed Guessoum.

14h30-14:50 (Room Gaston Planté): **Software Requirement and Checking**

Session chair: Xiao Ma ?

14:30-14:50 *Using k-means for redundancy and inconsistency detection: application to industrial requirements*

Manel Mezghani, Juyeon Kang and Florence Sèdes.

14:50-15:10: 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 Skadinš 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