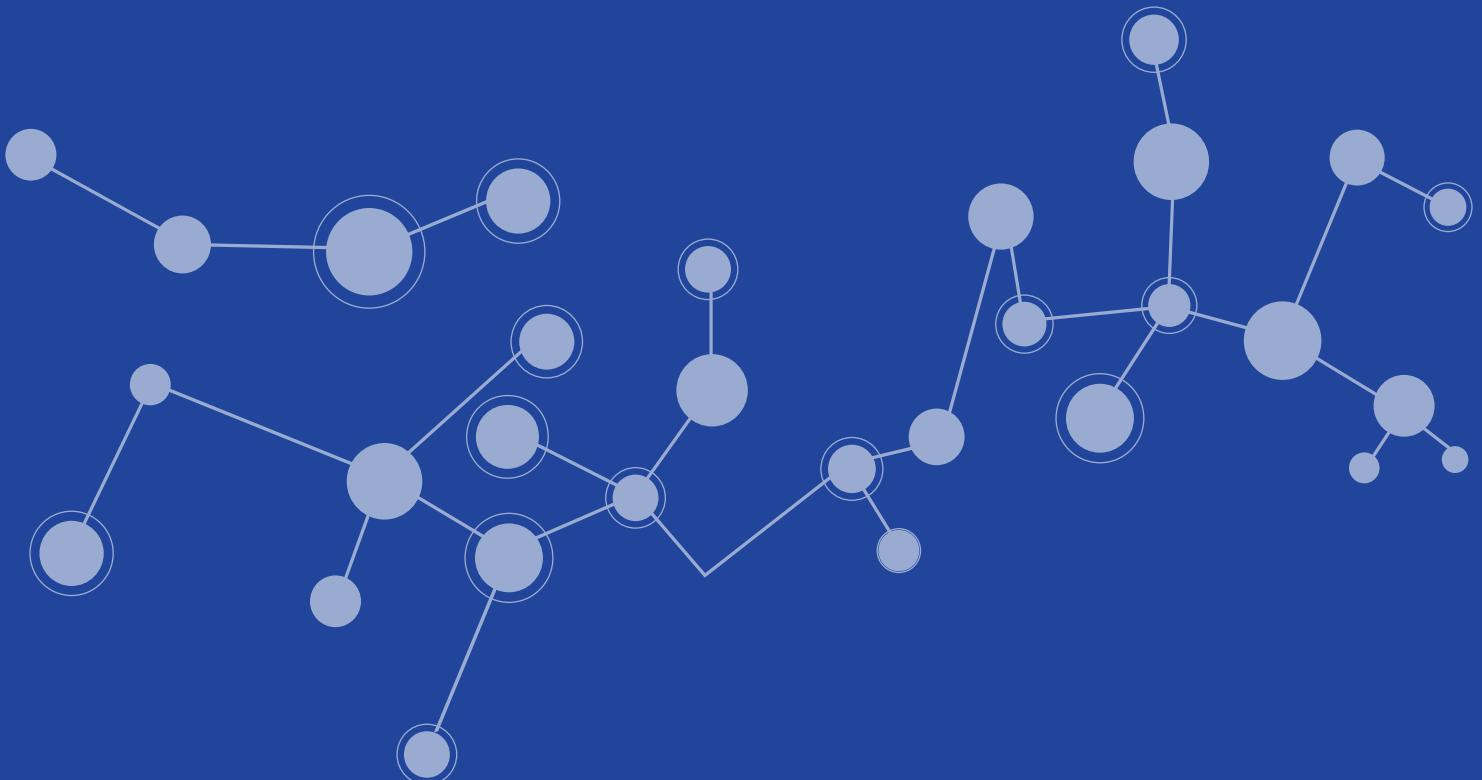# DOCUMENT D'AUTO-ÉVALUATION

DEPARTMENT 4
Natural Language Processing and Knowledge Discovery

Table des matières

DAE Département 4 : Traitement Automatique des Langues et des Connaissances

DEPARTMENT HEAD
Bruno Guillaume

Department 4 named *Natural Language Processing & Knowledge Discovery* (NLPKD) is composed of six teams which are interested in the processing of language-based media media used by humans for communication (speech, text) and in the modeling of the content of these data (knowledge modeling, semantic of natural language). Speech processing and modeling is the main focus of MULTISPEECH and SMART (speech recognition, speech synthesis and translation are considered). Natural Language Processing is the main interest of SYNALP and SÉMA-GRAMME with various activities about modeling, analysis and generation of several levels (syntax, semantics and discourse). Knowledge discovery and knowledge processing is at the heart of ORPAILLEUR and K: fundamental methods are developed and applied to areas like life science and data of the semantic web; Despite different research areas, the six teams of the department 4 share common background either on symbolic methods, on statistical approaches and on deep learning methods that are applied to most of these topics.

1. Retour sur l'évalution 2011-2016

Critère 1 : qualité et production scientifiques

Appréciation et recommandations : Même si on tient compte de leur spécificité thématique, certaines équipes sont plus productives que d'autres, à la fois par le nombre de leurs publications, mais également par la nature des supports choisis. En particulier, même si la publication dans des revues ou des conférences nationales est bien entendu nécessaire, il faut veiller à privilégier les journaux et supports internationaux. L'effort visant à la publication sur des supports internationaux de premier plan doit être partagé par tous.

Nous nous sommes efforcer à publier au meilleur niveau. Voir section 4 pour une synthèse des publications du département pendant la période.

Critère 2 : rayonnement et attractivité académiques

Appréciation et recommandations : Le volume des responsabilités éditoriales est un peu faible par rapport à la taille du département.

Les membres du départements se sont impliqués dans de nombreux commités éditoriaux de journaux ou de conférences. Parmi les responsabilités importantes des membres du département, on peut citer la présidence du "ISCA Special Interest Group on Robust Speech Processing" en 2018, la présidence de SIGMOL, *Association for Mathematics of Language, a Special Interest Group of the Association for Computational Linguistics*, une nomination comme "co-chair of the ACL ethics committee" et l'animation du GRD LIFT (Linguistique Informatique, Formelle et de Terrain). Pour une lise plus complète, voir section 5, "Editorial and organizational activities".

Appréciation et recommandations : Malgré la notoriété de son responsable, l'équipe **CELLO** a des difficultés à recruter de manière stable (au-delà des post-doctorants). Afin d'assurer à la fois la visibilité, l'attractivité et la pérennité des équipes, le département pourrait favoriser le renforcement des équipes de petites tailles, envisager leur fusion ou leur regroupement avec des équipes existantes.

Le département comptait 4 petites équipes en 2016. Nous avons areté les équipes **CELLO** et **READ**, suite au départ de leur responsable. Nous avons renforcé l'équipe **K** par le recrutement d'un professeur en 2021. L'équipe **SMART** a accueilli deux nouveaux permanents venus d'autres équipes du LORIA.

Critère 3 et 4 : interactions avec l'environnement économique, social, culturel et sanitaire / organisation et vie du département

NB : Les recommandations des deux critères sont liées, la réponse regroupe les deux aspects.

Appréciation et recommandations : Des collaborations avec le milieu hospitalier, ou paramédical (rééducation, remédiation), devraient être plus systématiquement envisagées et formalisées.

Les activités avec le milieu médical sont nombreuses dans la plupat des équipes. Deux deux membres de **K** sont praticiens hospitaliers ; **ORPAILLEUR** applique des techniques de fouilles sur des données médicales ou pharmacologiques, notamment en collaboration avec l'université

de Stanford ; **MULTISPEECH** développe des outils d'aide aux enfants dislexiques ou disphasiques ; **SMART** étudie l'amélioration la parole œsophagienne avec des techniques de traduction automatique et **SÉMAGRAMME** développe des outils d'aide au diagnostic des patients schizophrènes (projets SLAM et ODIM).

Appréciation et recommandations : De même, le département pourrait inciter des projets communs et/ou des codirections de thèse entre plusieurs équipes du département. Il faut poursuivre l'animation scientifique mise en place en interne, sous forme de séminaires et de journées thématiques : elle permet de renforcer l'unité du département tout en favorisant l'émergence de nouvelles collaborations inter-équipes voire inter-départements.

Durant la période, plusieurs projets impliquants plusieurs équipes ont démarré. Le projet OLKi, dans le contexte de l'ISITE Lorraine Université d'Excellence (LUE), implique la plupart des équipes. Parmi les autres projets entre équipes du département, on peut citer le projet européen AI-PROFICIENT (**SYNALP** et **SÉMAGRAMME**) sur la thématique de l'éthique des applications de l'intelligence artificielle et le projet d'E-éducation METAL `metal.loria.fr` (**SYNALP** et **MULTISPEECH** ainsi que le département 5) ;

La thèse de Mohamed Amine Menacer [39] sur la traduction de commentaires dans les vidéos a été co-supervisée par **MULTISPEECH** et **SMART**.

L'animation scientique du département réposent sur des séminaires de départements (avec des intervenants extérieurs) et des journées annuelles de département (dans lequelles les doctorants présentent leurs travaux).

Appréciation et recommandations : Ces actions pourraient permettre à terme le développement d'une plateforme, qui rassemblerait différents outils d'analyse et de génération de textes au sein d'un même environnement. La cohérence scientifique du département, et son unité thématique devraient se concrétiser et se renforcer au travers de réalisations communes à la fois en termes d'applications, de ressources, mais également de méthodes. Une réflexion commune sur les données, leur traitement, leur mise à disposition (notamment dans le cadre de Ortolang) ainsi que sur le rapprochement d'outils au sein de plateformes auraient un effet structurant important.

Des plateformes d'expérimentation (MBI-DS4H pour la fouille de données biologiques et biomédicales ou Grid'5000 pour les expérimentations utilisant le deep learning) ou de démonstrations (voir les sites internet les logiciels à la section 4) existent et sont développées et utilisées par les équipes. Le fait de rassembler différents outils de démonstrationsa au sein d'un même environement serait souhaitable mais cela nécessiterait de la main d'œuvre (par exemple, un ingénieur au niveau du département) dont nous ne disposons pas actuellement.

Pour la mise à disposition de ressources, de nombreuses solutions existent et les travaux du départemnt étant souvent dans des projets internationaux qui ne se limitent pas au Français, Ortolang n'est donc pas la plateforme la plus adaptée. Les plateformes utilisées sont par exemple : `https://paperswithcode.com/dataset/webnlg` ou LINDAT proposée par Clarin.

Critère 5 : implication dans la formation par la recherche

Appréciation et recommandations : Comme le Master Informatique est principalement géré à Metz, il est un peu difficile pour les membres du D4 de s'investir dans les responsabilités de ce master, qui ne présente donc pas de parcours adossé aux équipes du D4. Les membres du D4 ont donc peu de contact avec les étudiants de ce master qui pourraient s'intéresser aux thématiques de recherche du D4. L'implication dans le pilotage de parcours du master Informatique doit être renforcée.

Le master informatique est géré sur les deux sites Nancy et Metz et le département 4 est impliqué dans sa gestion : le responsable du parcours "Systèmes d'Information Décisionnelle (SID)" est un membre du département. Des étudiants de ce master font régulièrement des stages au niveau master dans le D4. Cependant, comme rappelé ci-dessous les masters Sciences

cognitives et Traitement Automatiques de Langues (notamment grâce au Eramsus Mundus) sont les principales sources locales de recrutement d'étudiants et notamment de doctorants.

Appréciation et recommandations : Il serait par ailleurs important, à la suite du Master Erasmus Mundus, de persévérer dans des actions permettant d'attirer des étudiants étrangers. Au niveau des doctorats, l'effort doit être poursuivi pour augmenter le nombre d'encadrements et rechercher de nouveaux financements en exploitant les possibilités locales, mais également en recherchant plus de soutiens industriels de types CIFRE.

Le nombre de doctorants a fortement augmenté pendant la période d'évaluation. Il y a deux fois plus de doctorants pour un nombre de permanents globalement stable. Les financements sont variés avec, en plus des financements institutionels habituels, de nombreuses CIFRE (voir détails plus bas), des contrats industriels, une chaire IA ou des dispositifs ANR-IA.

Critère 6 : perspectives et stratégie scientifique à cinq ans

Appréciation et recommandations : Le projet du département D4 donne peu de précisions sur la manière dont il va s'insérer dans la thématique générale du Big Data, pour traiter des données massives et complexes, principalement en biologie, en environnement et en santé. Il serait nécessaire, compte tenu des soutiens évoqués plus haut, d'avoir une vision plus globale, une politique scientifique commune au département, notamment en direction des humanités numériques, qui sont un domaine d'application fortement soutenu localement. Le département devrait entamer une réflexion commune sur ses perspectives autour des sciences des données, en termes de recherche et de formation. La thématique du dialogue pourrait y constituer un axe transversal qui rassemblerait des travaux aujourd'hui encore un peu dispersés.

Il faut rappeler que l'organisation de laboratoire fait en sorte que le rôle des départements est d'organiser l'animation scientifique et l'articulation avec la direction du laboratoire. La politique scientifique reste pilotée directement par les équipes.

Cependant, les thématiques évoquées ont bien été au centre d'un certain nombre de recherche du département au niveau de équipes. Le projet OLKi pour le lien avec les humanités numériques et des activités autour du Web sémantique dans **K** ou avec le projet ANR TermITH `https://web-data.atilf.fr/ressources/termith/` pour la terminologie en sciences humaines. La Science de données est au cœur de l'activité d'**ORPAILLEUR**, notamment avec la plateforme sciences des données et en lien avec axe transversal « Santé ». La thématique du dialogue reste un point majeur des équipes **SÉMAGRAMME** et **SYNALP** et fait partie des projets de l'équipe **MULTISPEECH**. Cette thématique va donc être un axe transversal dans les prochaines années. Un des projets en cours d'élaboration pour le renouvellement de LUE est centré sur « Discours et dialogue ».

Appréciation et recommandations : Il y a aussi deux reconfigurations d'équipe qui sont d'ores et déjà prévisibles : l'équipe Inria ORPAILLEUR devra nécessairement repenser sa reconfiguration avant fin 2018 (fin de sa période de 12 ans). L'équipe Orpailleur a été reconfigurée (bien qu'elle n'ait pas changé de nom). Durant la période d'évaluation, son ancien responsable est en parti en retraite et Miguel Couceiro a repris la direction de l'équipe. Plusieurs permanents sont partis sur d'autres lieux ou dans l'équipe K ; dans le même temps plusieurs enseignants-chercheurs, basés à Metz ont rejoint l'équipe.

Appréciation et recommandations : Le département ne pourra donc faire l'économie d'une réflexion sur sa structuration globale et sur ses thématiques de fond. Il devra aussi se pencher sur le problème de la viabilité de ses équipes de taille modeste et de leur capacité à faire face à ces évolutions. Néanmoins, la qualité des membres du département et de l'équipe de direction devrait permettre de passer ce cap sans trop de difficultés.

L'arrêt des équipes **READ** et **CELLO** pendant la période a resserré l'éventail des thématiques, le traitement des documents n'est plus une des activités majeures du département. Les 6 équipes actuelles sont recentrées sur le traitement de la parole, de la langue est des connaissances.

2. Domaine 3 : Production scientifique

2.1. Référence 1. La production scientifique de l'équipe satisfait à des critères de qualité.

2.1.1 Synopsis

L'UL a demandé aux laboratoires de rédiger pour juin 2021 les bilans des laboratoires en vu de l'évaluation HCERES 2016-2020. Ce document est présenté dans le Portefolio D4-1. Pour faciliter la lecture des évaluateurs, nous avons extrait des éléments de notre rapport de juin 2021 pour les reproduire ici ; nous les avons cependant laissé en anglais, ce qui explique le mélange de langues dans ce présent document.

Les sections suivantes sont organisées comme suit : §2 Composition du département ; §2 Thématiques de recherche ; §3 Principaux résultats ; §4 Production scientifique et qualité ; §5 Réputation académique ; §6 Vie du département ; §7 Relations académiques.

2.1.2 Composition

The department (as of end 2021) consists of 43 permanent researchers (5 PR, 24 MCF, 6 DR, 8 CR) and more than 60 PhD students ; see Portfolio D4-1 for more details. The department is structured in 6 teams (2 being shared with Inria), consisting of 3 to 14 permanent researchers each, and whose scientific topics are precisely targeted within the projects of the team. Two other teams mentioned below in the report were stopped during the evaluation period. These teams are the following :

CELLO : Computational Epistemic Logic in LOrraine (until 2021)
K : Data Science, Knowledge Engineering and Reasoning (since 2019)
ORPAILLEUR : Knowledge Discovery and Knowledge Engineering
MULTISPEECH : Speech Modeling for Facilitating Oral-Based Communication (EPC Inria)
READ : Writting recognition and document analysis (until 2020)
SÉMAGRAMME : Semantic Analysis of Natural Language (EPC Inria)
SMART : Speech Modelisation and Text Statistical Machine Translation
SYNALP : Statistic and Symbolic Natural Language Processing

Research topics Keywords : Speech processing, Natural Language Processing, Document Processing, Knowledge Processing and Knowledge Discovery.

The teams of the NLPKD (Natural Language Processing & Knowledge Discovery) department have a wide scope, the main centers of interest are :

— **Speech Processing.** Many different aspects are covered by teams **MULTISPEECH**, **SMART** and **SYNALP**. Main topics are : Speech Recognition, Speech Synthesis, Multimodal Speech Processing, Source Separation, Articulatory Modeling, Speech-to-speech Translation.

— **Natural Language Processing.** In the department, the teams **SMART**, **SYNALP**, **SÉMAGRAMME** and **ORPAILLEUR** are working on NLP. They are active in : Language Modeling (Formal semantics, Syntax-Semantic Interface, Discourse Dynamics), Natural Language Processing (Syntax and Semantics Parsing, Dialog Processing, Text Clustering), Natural Language Generation and Text Mining.

— **Document Processing.** The team **READ** focus on Named entity recognition, semi-supervised learning, attention models, semi-structured documents

— **Knowledge Processing and Knowledge Discovery.** The **ORPAILLEUR** and **K** teams have a strong focus on Knowledge with topics like : Knowledge Discovery in Databases, Formal Concept Analysis, Analogical reasonning & analogy based machine learning, Knowledge Engineering or Web of Data. The **CELLO** team is involved in Knowledge and Belief, Knowledge progression and its formalization in Modal Logic.

The research activities in the department also cover a large range of methods :

— **Statistical or Learning based methods** (with an increasing use of deep learning models) are used in all area described above, i.e. Speech, Text, Document and Knowledge Processing.

— **Symbolic based methods** are also widely used in **SÉMAGRAMME**, **ORPAILLEUR**, **K** and **CELLO** with a focus on Logic in **SÉMAGRAMME** and **CELLO**, on Formal Concept Analysis and Case-based Reasoning in **K** and **ORPAILLEUR**.

The eight teams of the department are working in a large set of application domains : Foreign Language Learning, Sentiment Analysis and Opinion mining, Preference Modeling, Pathological speech or Pathological language, Life Science, Dialog System.

We summarize below the research topics and application domains of these 8 teams as they exist in 2020. A more detailed description is given in the sections dedicated to each team.

In **MULTISPEECH**, speech is the scientific object studied. The main objectives are a better understanding of how human produce and perceive speech, and the enhancement of communication channels for efficient vocal interactions via automatic processing (speech enhancement, synthesis and recognition).

Due to the ubiquitous use of deep learning and the new issues raised by this apprioach, new research topics appear in the team. The team has now the following axes of research activities :

— Beyond black-box supervised learning, which investigates integration of domain knowledge in deep learning, learning from little / no labeled data, and preserving privacy.

— Speech production and perception, which deals with articulatory modeling, multimodal expressive speech synthesis, and categorization of sounds and prosody. Deep learning approaches are now also used for dealing with these topics.

— Speech in its environment concerns the analysis of acoustic environments, speech enhancement and noise / domain robustness for speech technologies, as well as linguistic and semantic processing.

— Uncertainty estimation and exploitation in speech processing deals with uncertainty with respect to acoustic modeling, phonetic segmentation and prosody.

The main objective of the **SMART** team is to develop language representation models for machine translation and speech recognition systems. Languages are studied through monolingual, parallel or comparable corpora for low resourced languages (Arab dialects), Arabic, French and English with a focus on code-switching. Translation methods are also applied to automatic

Arab music tracking or musical accompaniment through an application that provides real-time instrumental translations to vocal sentences. Another axis of research in **SMART** concerns the continuous speech recognition of the pathological voice with application to enhancing of esophageal speech.

The **SYNALP** team members are focusing on the Natural Language Processing (NLP), with a special focus on text generation. The main other research areas include text simplification and summarization, semantics parsing, and also text classification, for instance for sentiment analysis and dialogue act recognition. The methodological approach adopted in the team is mainly based on deep learning and machine learning models of natural language. This includes in particular leveraging large pretrained contextual word and sentence embeddings for specific NLP task-adapted neural architectures, and proposing novel training algorithms and benchmarks. Algorithms and approaches mainly rely on textual data, but also sometimes on speech, pharmacogenomics and industry-related time series.

The overall objective of the **SÉMAGRAMME** project is to design and develop new unifying logic-based models, methods, and tools for the semantic analysis of natural language utterances and discourses. This includes the logical modeling of pragmatic phenomena related to discourse dynamics. Typically, these models and methods are based on standard logical concepts (stemming from graph theory, formal language theory, mathematical logic, and type theory). The project is organized along three research directions : Syntax-semantics interface, Discourse dynamics and Common basic resource.

CELLO is a small team whose creation coincides with the ERC Starting Grant EPS 313360. The research area of the team is Dynamic Epistemic Logic and Temporal Modal Logic with a focus on Epistemic protocol synthesis. Areas of specific interest are protocols for secure communication, protocol languages, and agency. The general goal of this research group is epistemic protocol synthesis for synchronous and asynchronous multi-agent systems, by way of using and developing dynamic epistemic logics. More specifically, the following themes are in our scope : Epistemic protocol synthesis from initial state to goal state, Knowledge progression, Protocol synthesis in asynchronous systems, Security protocol synthesis, Heuristics for epistemic planning, Logics for quantifying over information change, Planning with unawareness, Protocol languages, Agency in logics for epistemic protocol synthesis.

The **ORPAILLEUR** team focuses on KDD (Knowledge Discovery in Databases). The three main scientific objectives are : Fundamentals of KDD, KDD in practice and Explanations and Fairness in KDD.

The team investigates pattern mining methods which are both symbolic (Formal Concept Analysis and extensions) and numerical (based on classifiers such as Random Forests, SVM, and Neural Networks) ; combining both for improving applicability and explainability of KDD and making KDD more "reliable". Recent advances of deep learning and in general numerical data mining methods in recognition tasks are based on complex models, whose outputs and proposed decisions, cannot be easily explained. Accordingly, we are studying how to design hybrid and more interpretable KDD methods, combining complex numerical models and explainable symbolic models. In addition, explanations can be used for assessing algorithmic fairness, and that became another main topic in the team.

Regarding applications, the team mainly works in life sciences (agronomy, biology, chemistry, medicine, pharmacogenomics), in astronomy and in the web of data.

The **K** team deals with symbolic artificial intelligence methods. Knowledge is at the center of the team which addresses three main research topics : data science (and knowledge discovery), knowledge engineering, and reasoning (hypothetical and deductive). The focus in on symbolic knowledge and on how to use it within inferences, how to acquire and learn it, and how to manage it in a knowledge-based system.

The **READ** team is interested in several problems related to the information extraction in scanned documents using deep learning models. The challenge is the ability to exploit the word embedding and their graph representation for document modeling. These methods are applied to Incremental classification, Data augmentation and data generation, Information extraction and Handwritten document segmentation.

2.1.3 Main Results

We shortly present some results obtained by the teams of the department. More detailed descriptions of these results are given in the sections dedicated to each team.

Speech Processing

> **Privacy** (**MULTISPEECH**). Speech signals are personal data. To preserve speakers' privacy, we built the first complete methodology for speaker anonymization. In contrast to prior studies, we defined distinct attacker models [548] and metrics [536], which enabled us to demonstrate that simple transformations [548] and adversarial learning [492] offer little protection against non-naïve attackers. We contributed to developing a more advanced voice conversion method, and explored the optimal choice in order to achieve an optimal tradeoff between privacy and utility [1060, 547]. We co-organized the first VoicePrivacy Challenge [549].

> **Speech enhancement** (**MULTISPEECH**, **SMART**). We designed the first neural network based multichannel speech enhancement method [87] (transferred to Samsung), and extended it to the joint reduction of echo, reverberation and noise [203]. Our Python toolkit Asteroid is currently the most used by the community. We also proposed a method for uncertainty estimation and propagation in a neural-network-based acoustic model, which improves automatic speech recognition (ASR) by up to 21% relative. In [136], we developed a novel DNN-based speaking-aid system improving the quality of esophageal speech using a combination of a voice conversion technique and a time dilation algorithm.

> **Expressive audiovisual speech synthesis.** We acquired a high quality expressive audiovisual corpus based on fine linguistic analysis, motion capture, and naturalistic acting techniques [336]. We used it to build a deep-learning based expressive audiovisual speech synthesis system capable of generating recognizable emotions and well-perceived nuances of emotions [458].

> **MRI articulatory data.** (**MULTISPEECH**). Real-time Magnetic Resonance Imaging (rt-MRI) allows speech gestures to be captured with a good precision. Acquisition of MRI data has been done in collaboration with the IADI laboratory and our rt-MRI database is the largest available for French [460]. We developed in parallel, deep learning algorithms to track contours of speech articulators automatically with a very good reliability and to predict the temporal evolution of the vocal tract shape from a sequence of phonemes to be articulated [216].

> **Challenges.** (**MULTISPEECH**). Besides the 2019 edition of the IEEE Signal Processing Cup, we co-organize 4 international challenge series : DCASE, CHiME, ASVspoof

and, since 2020, VoicePrivacy. Also, our team ranked first in the 2020 PyTorch Summer Hackathon and in the 2020 Oriental Language Recognition challenge.

Natural Language Processing

Text generation (**SYNALP**). Important progress have been achieved in the task of knowledge to text generation, both in terms of novel methods (e.g., for generation from RDF triples [376] or with the proposal of a new graph encoder to generate from graphs [226]). We also worked on dialog turn generation. [532] proposes a few-shot method to train a health-bot while [245] shows how to use k-Neared Neighbours-Based Composite Memory to retrieve knowledge that is relevant to the conversation and use it to generate information rich dialog turns.

Semantic parsing (**SYNALP**). We developed a reversible approach which supported both semantic parsing and generation and showed how it could be used to synchronise model and documentation in the ModelWriter proof of concept prototype [379]. We worked on converting a natural language question into a SPARQL query which can be executed on a knowledge base to extract the expected answer. We proposed novel neural approaches which contrary to standard sequence to sequence approach could capture the fact that a logical formula must be syntactically well-formed [348, 400].

Linguistic resources and challenges (**SYNALP**, **SÉMAGRAMME**, **SMART**). Several teams were active in resources production and challenge organisations Several French corpora included in Universal Dependencies are developed and maintained [887]. Several freely available corpora of Arabic dialects (PADIC and CALYOU) have been developed [350]. Besides the challenges on speech already mentionned, we also organise the PARSEME shared-task and two editions of the WebNLG Shared Task (2017 and 2020) *Text Generation and the Semantic Web*. The 2020 task attracted 15 participants, several from the private sector (Google, Facebook, Orange, Huawey, Amazon).

Document Processing

Domain incremental classification (**READ**). Our main objectives are to minimize the labeling cost using active learning strategies and to learn with the possibility of appearance of novel classes. This implies a mechanism for novel class detection, detection of possible labeling errors, to mitigate their effect on the learning performance. The team has developped an adaptive streaming active learning strategy based on instance weighting, used now by the ITESOFT company for mail sorting [66, 993]. A new strategy adapted to semantic segmentation was also developed in order to extract text lines in old documents [469].

Knowledge Processing and knowledge discovery

Knowledge Discovery in Databases (KDD) (**ORPAILLEUR**). We have an important activity in pattern mining, in Formal Concept Analysis and its extensions and in text mining and in depevlopping hybrid –symbolic and subsymbolic– data mining methods. We combine in an original way knowledge discovery and knowledge engineering, in mining the web of data for ontology engineering, knowledge base completion, and link key discovery [199].

The main application domain is Life Sciences which remains a challenging domain for KDD because data are complex from many points of views : huge size, high-dimensionality, deep inter-connections, and quick evolution. Healthcare applications are also numerous : disease understanding, drug discovery, pharmacovigilance, and pharmacogenomics. For

instance, in collaboration with Stanford University and CHRU Nancy, we studied the use of Electronic Health Records to predict drug doses for patients [145].

Explanations and Fairness in KDD (**ORPAILLEUR**). We investigate different ways of providing explanations and facilitating interpretation of the outputs of numerical KDD methods. Besides explainability, one main limit that retains KDD systems from being more widely operated is there tendency to be biased : they are reproducing biases that are initially present in the data, and may lead to inaccurate or unfair results. In [752], we improve process fairness of KDD algorithms through "feature dropout" followed by an "ensemble approach".

Semantic Web (**ORPAILLEUR**, **K**). We have a long-term informal collaboration with the laboratory AHP-PReST has become more concrete with a PhD thesis who aims at applying flexible search principles in the framework of the semantic Web for search and editing tools, with an application to the Henri Poincaré correspondence [238].

Gossip protocol (**CELLO**). An epistemic (or knowledge-based) gossip protocol is a procedure for spreading secrets among a group of agents, using a connection graph. We consider asynchronous distributed protocols (where the agents themselves instead of a global scheduler determine whom to call). Another variation is to assume that when a call is established not only secrets are exchanged but also telephone numbers. We design formulas that represent interesting properties that a gossip situation may or may not enjoy, and show for which variants they are valid. Additionally, we show that the model checking and validity checking problems for each variant are decidable, and we introduce sound and complete proof systems for them [233].

2.1.4 Scientific production and quality

The scientific production of the department over the period 2016-2021 consists of 5 books, 54 PhD manuscripts, 2 HDR manuscripts, 201 articles in journals, 299 publications in major conferences and 398 in other conferences.

Below we give a list of top journals and conferences in which we have published. The teams in department 4 have different expertise areas and they publish in quite different journals and conferences. Hence, there are only a few overlaps between top journals and top conferences of different teams. Around 25% of the articles of the department have been published in these journals and around 40% of the papers in major conferences have been published in these conferences.

List of top journals in which we have published
— Artificial Intelligence (4) [126, 165, 182, 233]
— IEEE Transactions on Audio, Speech and Language Processing (12) [59, 77, 83, 87, 96, 113, 123, 124, 186, 203, 219, 247]
— Annals of Pure and Applied Logic (1) [200]
— Semantic Web Journal (1) [238]
— Computer Speech and Language (9) [94, 95, 125, 127, 140, 168, 196, 234, 241]
— Discrete Applied Mathematics (4) [130, 132, 199, 212]
— Fuzzy Sets and Systems (5) [73, 139, 141, 171, 201]
— Theoretical Computer Science (2) [205, 255]
— Journal of Language Modelling (3) [116, 122, 202]
— Mathematical Structures in Computer Science (2) [137, 178]
— Information Processing and Management (1) [115]
— Transactions of the ACL (4) [226, 245, 265]
— Computational Linguistics (1) [114]

List of top conferences in which we have published

- AiML – Advances in Modal Logic (2) [306, 502]
- ISWC – International Semantic Web Conference (1) [528]
- ICASSP – IEEE Int. Conf. on Acoustics, Speech and Signal Processing (37) [316, 320, 343, 346, 367, 368, 372, 383, 391, 393, 394, 396, 398, 411, 419, 428, 432, 436, 438, 445, 459, 471, 489, 496, 512, 520, 542, 544, 546, 548, 553, 559, 561, 869, 564, 566, 567]
- INTERSPEECH – Annual Conference of the International Communication Association (42) [308, 322, 336, 344, 350, 370, 378, 404, 408, 441, 443, 444, 450, 458, 460, 461, 473, 481, 485, 492, 493, 508, 514, 516, 523, 526, 530, 533, 536, 541, 545, 547, 549, 551, 555, 556, 557, 558, 560, 562, 563, 565]
- IJCAI – International Joint Conference on Artificial Intelligence (3)[365, 400, 416]
- CoLing – International Conference in Computational Linguistics (7) [325, 337, 342, 412, 491, 518, 532]
- ACL – Annual Meeting of the Association for Computational Linguistics (2) [348, 376]
- EACL – European Chapter of the Association for Computational Linguistics (1) [805]
- ICDM – International Conference on Data-Mining (2) [326, 359]
- CLA – International Conference on Concept Lattices and Applications (14) [305, 309, 310, 323, 347, 413, 421, 426, 433, 497, 503, 521, 524, 535]
- ICPR – Pattern Recognition (1) [328]
- LREC – The Language Resources and Evaluation Conference (5) [402, 498, 519, 522, 539]
- EMNLP – Empirical Methods in Natural Language Processing (4) [387, 414, 466, 490]

Software. We highlight here some of our principal software and refer to the team's report in the Portfolio D4-1 for details.

- **Asteroid toolkit**[1] is a PyTorch-based audio source separation toolkit for researchers [541]. By showing experimental results obtained with Asteroid's recipes, we show that our implementations are at least on par with most results reported in reference papers.

- **Dynalips**[2] provides a solution to synchronize precisely and automatically the movements of the lips of a 3D character with speech (we address 3D animation movies and video games).

- **Kaldi-web**[3] is an open-source, cross-platform tool which bridges this gap by providing a user interface built around the online decoder of the Kaldi toolkit [523]. Additionally, because we compile Kaldi to Web Assembly, speech recognition is performed directly in web browsers. This addresses privacy issues as no data is transmitted to the network for speech recognition.

- **LatViz**[4] a tool allowing the construction, the display, and the exploration of concept lattices. It proposes some noticeable improvements over existing tools such as interaction with expert, visualization of Pattern Structures, AOC posets, concept annotations [305].

- **OrphaMine**[5] : is a platform which enables visualization, data integration, and in-depth analytics in the domain of "orphan diseases", where data is extracted from the OrphaData ontology.

- **Grew**[6] is a Graph Rewriting tool dedicated to applications in NLP. It is used in several rule-based conversions of linguistic annotated data. A secondary tool, named **Grew-match**[7], exploits the graph matching mechanism of Grew in an online web interface for

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1. https://github.com/asteroid-team/asteroid
2. https://dynalips.loria.fr/
3. https://kaldi-web.loria.fr/
4. http://latviz.loria.fr
5. http://orphamine.loria.fr/
6. https://grew.fr
7. https://match.grew.fr

corpus exploration which is largely used in the Universal Dependencies community.

— **SLODiM**[8] is a software package for the analysis of oral French. It is especially dedicated to the analysis of interviews with clinicians in order to identify language behaviour characteristics of mental pathologies.

— **FixOut**[9] is a human-centered and model-agnostic framework, implementing results abour fairness issues in KDD algorithms. Given a classifier, a dataset and a set of sensitive features, FixOut first assesses whether the classifier is fair by checking its reliance on sensitive features using explanations. If deemed unfair, FixOut then applies feature dropout to obtain a pool of classifiers which are combined into an ensemble classifier that will be less dependent on sensitive features without compromising the whole classifier accuracy.

— **A*NN*a :** The objective of *ANN*a is to provide an online platform to detect, solve, and reason with analogies, with noteworthy applications in NLP, medical sciences, and industry [796, 797, 1061] `https://anna.loria.fr/`.

— **HUMAN** (Hierarchical Universal Modular ANnotator) [790] is used for annotating data in the ANR-DFG M-PHASIS project `http://human.lsv.uni-saarland.de`.

2.1.5 Academic reputation and appeal

Prizes and Distinctions. 1 ERC grant (EPS), 1 ANR ChairIA **XNLG**, 1 IEEE Fellow, 1 PhD award, 10 best paper awards. See Portfolio D4-1 for more details.

Participation to challenges. We obtain the first place in the Pytorch Summer Hackathon 2020 with DeMask, a method to enhance speech by talkers wearing face masks, developed with the Asteroid toolbox. We ranked 1st for the MADAR shared task on Arabic fine-grained dialect identification. We ranked 1st for Task 1 (cross-channel language identification) and Task3 (noisy data language identification) of the Oriental Language Recognition Challenge (OLR 2020). We ranked 2nd for the "Professionally produced music recordings" task of the 2016 Signal Separation Evaluation Campaign (SiSEC).

Invitations and visits. Department members gave 5 keynote presentation in international conference ; 23 other international invited talks and 15 national ones.

Amedeo Napoli stayed one month in Brazil (Participation to the program "Ciência Sem Fronteiras") in 2016. Antoine Liutkus has been invited at RIKEN (Kyoto University) in 2017. Manuel Pariente, Sunit Sivasankaran and Emmanuel Vincent have participated to the 2019 Sixth Frederick Jelinek Memorial Summer Workshop (six-week-long research workshops, Jul-Aug 2019, Montréal, Canada). Jean-Charles Lamirel has been nominated Sea-Sky Invited Full Professor at the University of Technology of Dalian (DUT) - China. Timothée Bernard stayed at the linguisitc department of New York University as a visiting PhD student for 3 months in 2017. Aurélie Bannay spent 6 months at Rennes 1 Université as an invited researcher in 2019.

Grants and contracts. Members of the department are leader of three european projects (ERC "Epistemic Protocol Synthesis", H2020 ICT COMPRISE, Chist-Era AMIS) and participate to several other european project : 4 H2020, 2 COST action.

Claire Gardent is the main investigator of the ANR Chaire IA **XNLG** (co-funded, Région Grand-Est and Facebook). Members of the department participate to 30 ANR projects (12

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8. `http://slodim.loria.fr/`
9. `https://fixout.loria.fr/`

of which as coordinator). Among other national funding, other sources include : LUE OLKi, 2 Inria-DFKI collaborative action, 2 Inria exploratory program, 3 FUI, 2 CPER and PIA projects ORTOLANG and EFRAN-Metal.

We also have diffent kind of contract with many companies (list non exhausive) : Facebook AI Research, Samsung Electronics, Honda Research, Orange Labs, Huggingface, Dolby, Xerox, Dassault, Thalès, Crédit Mutuel, CS Group, BPI DeepTech, Venatech SAS, Studio Maia SARL.

Editorial and organizational activities.
— Emmanuel Vincent was the elected president of the ISCA Special Interest Group on Robust Speech Processing in 2018.
— Philippe de Groote was president of SIGMOL, *Association for Mathematics of Language, a Special Interest Group of the Association for Computational Linguistics* from 2017 to 2019.
— Karën Fort has been nominated in 2021 as co-chair of the ACL (Association for Computational Linguistics) ethics committee for five years.
— Miguel Couceiro was elected as a member of the IEEE Technical Committee on Multiple-Valued Logic for the 2018-2020 period.
— Slim Ouni was Secretary/Treasurer of the ISCA Special Interest Group on Auditory-Visual Speech from 2016 to 2020.
— Emmanuel Vincent is member of the Steering Committee of ISCA Special Interest Group on Security and Privacy in Speech Communication since 2020.
— Jean Lieber has been senior PC member of IJCAI (International Joint Conference on Artificial Intelligence).
— Amedeo Napoli and Yannick Toussaint were General Chairs of the "21th International Conference on Knowledge Engineering and Knowledge Management".
— Abdel Belaid is co-editor of the International Journal on Document Analysis and Recognition.
— Miguel Couceiro is Editor in Journal of Multiple-Valued Logic and Soft Computing and International Journal on Information Technologies and Security.
— The main French speaking conferences for NLP (TALN) and for Speech Processing (JEP) were organized conjointly by the LORIA with other laboratories form Nancy. These two conferences involved many members of the department. David Langlois (**SMART**), Slim Ouni (**MULTISPEECH**), Chloé Braud (**SYNALP**), Sylvain Pogodalla (**SÉMAGRAMME**) and Laurine Huber (**ORPAILLEUR**) were members of the organising commitee.
— Claire Gardent is the main organisor of the GDR LIFT (Linguistique Informatique, Formelle et de Terrain).
— Slim Ouni is vice-president of AFCP (*Association Francophone de la Communication Parlée*).

Services as expert or evaluator.

Non-local scientific responsibilities. Members of the department particitated to 119 PhD committees, 14 HDR committees, and 44 recruitment juries for research scientist and faculty members. They were also members of several HCERES evaluation committees : LIUM 2016, LPP 2018, LIMSI 2018, IRIT 2019 & GIPSA lab 2020. They were evalutor for several agencies : ERC, ANR, ANRT, COST, DFG, NSERC...Slim Ouni and Karën Fort are members of the French National Boards of Universities, CNU.

Local scientific responsibilities. Yves Laprie is Director of the AM2I Scientific Pole and Member of the Board of Directors of Université de Lorraine (since Feb. 2017). Maxime Amblard is a member of the scientific concil of Université de Lorraine. Emmanuel Vincent is Deputy Head of Science at Inria Nancy - Grand Est and Scientific Director for the partnership between Inria and DFKI. Bruno Guillaume is the co-animator of CPER project "Langues, Connaissances et Humanités Numériques" (2015-2020).

2.1.6 Life of the department

At the department level, we have a general audience seminars for members of the departement and for our marster students. Most of the time these seminars were given by external researchers who are invited two or three days in the laboratory. Each year (except in 2020 and 2021), we have a department day where all PhD students of the department are invited to present their research activities (this event is organized by some first year PhD students).

Besides the departement level activities, many more focused seminars are organized at the team level but they are promoted at the laboratory level and attract audience outside the organising teams. For instance, there are seminars about logic and data mining [10], reading groups about deep learning or graph representation.

Members of most of the teams of the department are strongly involved in the OLKi projet [11], funded by LUE (Lorraine Univestité d'Excellence). This is an interdisciplinary project that aims at making AI research on language data more open, transparent, ethical, explainable and respectful for citizens.

The department is also in charge of the ranking of PhD applications and of the profiling of job for permanent positions.

Several project where conducted with other departments of the laboratory. With department 2 : a PhD was co-supervied (teams **CELLO** and **TYPES**) on epistemic and separation logic and leads to a joint publication [178] ; a PhD was co-supervied (teams **ORPAILLEUR** and **MOCQUA** on optimal space representations of Boolean functions [205] ; and members of D2 and D4 are co-authors of a book on the usage of Graph Rewriting for NLP [951].

The METAL project involves members of the **KIWI** team and members from D4 (**MULTISPEECH** and **SYNALP**).

2.1.7 Relations académiques pérennes

Collaborations.
— **CELLO** : Sun Yat-Sen University (China), University of Western Australia.
— **MULTISPEECH** : Saarland University (Saarbrucken, Germany), Audiolabs Erlangen (Germany), RWTH - Aachen University (Germany), Cork Institute of Technology (Ireland), University of Sheffield (UK), Johns Hopkins University (USA), Johannes Kepler University (Austria), Carnegie Mellon University (USA), Adobe Research (USA), University of Eastern Finland, Ecole Nationale d'Ingénieurs de Tunis (ENIT, Tunisie), AGH University of Science and Technology (Poland), University of Deusto and Pompeu Fabra (Spain), Polytechnic University of Marche (Italy).
— **ORPAILLEUR** : NASA, Stanford University.
— **READ** : ENSIT (Ecole Nationale Supérieure des Ingénieurs de Tunis).
— **SÉMAGRAMME** : New York University, the Ohio State University, Düsseldorf University, Jiangxi academy of science (China),
— **SMART** : AGH (Poland), Deusto (Spain), University of Tunis
— **SYNALP** : Facebook AI Research Paris, Technische Universität Darmstadt, University of West Bohemia (Plzen, Czech republic).

2.2. Référence 2 : La production scientifique est proportionnée au potentiel de recherche de l'équipe et répartie entre ses personnels

2.2.1 Homogénéité de la production scientifique entre les permanents.

Voir DAE labo.

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10. `https:\malotec.loria.fr`
11. `https:\olki.loria.fr`

2.2.2 Accompagnement des jeunes chercheurs.

Voir DAE labo.

2.2.3 Accompagnement des chercheurs qui reprennent l'activité recherche.

Voir DAE labo.

2.2.4 Production scientifique des doctorants.

5,45 publications en moyenne par doctorant en fin de thèse.

3. Domaine 4 : Inscription des activités de recherche dans la société

3.1. Référence 1 : L'équipe se distingue par la qualité de ses interactions non-académiques

CIFRE We had 7 Cifre grants over the period with : Orange Labs, Invoxia SAS, Facebook AI Research, CS Group, Yseop, Crédit Mutuel and Xerox.

Industrial contracts With Venathec SAS (2014-2018) ; Samsung Electronics Co., Ltd, South Korea (2017) ; Studio Maia (Inria Innovation Lab "Voice Technologie", 2017-2019) ; Dolby, Spain (2018) ; Honda Research Institute, Japan (2018 & 2019) ; and Dassault and Thalès (Man Machine Teaming initiative, 2019-2020). We also have 3 privately funded PhD contracts with Facebook, Huggingface and Aliae.

Collaborative projects with industrials H2020 COMPRISE (2018-2021) ; FUI RAPSODIE (2012-2016) ; FUI VOICEHOME (2015-2017) ; ANR VOCADOM (2017-2020) ; ANR ROBO-VOX (2019-2023) ; ANR LEAUDS (2019-2022) ; and AMI Digital Economy ALOE (2019-2020)

Other industrial collaboration The Smart Knowledge Discovery Project (SKD) was funded by "Grand Est Region" and aimed at analyzing complex industrial data for troubleshooting and decision making, involving the Vize company and Arcelor-Mittal Steel (Metz). We have a collaboration with Google research (USA), Adobe Research (USA) and Descript, Inc. (USA) through the organization of a DCASE Challenge task since 2019 [566, 567].

3.2. Référence 2 : L'équipe développe des produits à destination du monde socio-économique

Patents We had two patents "Image processing device" [1064, 1065] and "Audio-driven speech animation using recurrent neural network" [1066].

Transfert We had successful technology transfer with Samsung (dnnsep) and Dolby Laboratories (FASST 2.0). Manuel Pariente's startup project "Pulse" was awarded one of the 10 Grand Prizes of the i-PhD Innovation Challenge organized by the French Ministry of Higher Education, Research and Innovation in partnership with BpiFrance.

3.3. Référence 3 : L'équipe partage ses connaissances avec le grand public et intervient dans des débats de société

Here is a non exhaustive list of General public audience activities of members of the department.

— Maxime Amblard is vice head of the editorial board of *Interstice)i(*
— Maxime Amblard has been the leader of a computer science *Happy Family Cards Game* project [1052].
— 6 articles have been published in Interstices, 1 in The Conversation in 2020 and 3 in ERCIM News.
— 7 editions of the MeetUp IA (start in Sept 2018) [12] ; PhD students of the department organised these meetings and several member were invited as speakers.
  Members of the department participate
— 4 videos have been elaborated, presenting topics studied in the H2020 COMPRISE project.
— 13 interviews have been given to TV channels, radio or journals.
— Participation to a general meeting about medicine and health in Nancy (see https://www.inria.fr/centre/nancy/agenda/salon-cite-sante-2019).
— more than 20 videos in relation with the OLKi project (typically, recordings of seminars) have been made available (https://olki.loria.fr/portfolio/videos/).
— Team members gave 14 general audience seminars, including one demo/interactive

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12. https://www.meetup.com/fr-FR/IAnancy/events/past/

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