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2019 International Year
of Indigenous Languages



Government of
the Khanty-Mansiysk
Autonomous Okrug – Ugra
of Russian Federation



International Conference
**Language Technologies for All (LT4All):
Enabling Linguistic Diversity and Multilingualism Worldwide**

in the framework of
the 2019 International Year of Indigenous Languages

4 - 6 December 2019
UNESCO Headquarters, Paris, France

[Conference programme at a glance](#)

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Information for All
Programme



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An ELRA-ISCA Joint SIG

Programme
5 December 2019 (Room II)

Day 2. ACHIEVEMENT

Applying language technologies for linguistic diversity and multilingualism

(Room II and Poster Area: Hall Segur)

08:00-09:00 Registration

09:00-10:15 Opening Session

Moderator: Mr Moez Chakchouk, Assistant Director-General for Communication and Information, UNESCO

Mr Moez Chakchouk	Assistant Director-General for Communication and Information	UNESCO	
Ms Anne Karin Olli	Vice Minister	National Government, Ministry of Local Government and Modernisation	Norway
Ms Dorothy Gordon	Chair	UNESCO Intergovernmental Information for All Programme (IFAP)	Ghana
Ms Aiolupotea Sina Aiono	Deputy Chief Executive, Regional Partnerships	New Zealand Ministry for Pacific Peoples	New Zealand
Mr Khalid Choukri	Secretary General	European Language Resources Association (ELRA) and Special Interest Group: Under-resourced languages (SIGUL)	France
Ms Lixin Tian	Director-General	Department of Language Information Management, Ministry of Education	The People's Republic of China

Introduction of the LT4ALL: Language Technologies for All by the co-chairs of LT4All Day 2-3

10:15-10:30	Ms Sakriani Sakti	Associate Professor, Nara Institute of Science and Technology, Japan Secretary of SIGUL, ELRA-ISCA Special Interest Group of Under-Resourced Languages	
	Mr Joseph Mariani	Senior Researcher, LIMSI-CNRS, France Honorary President of ELRA, France	
	Mr Khalid Choukri	Secretary-General, European Language Resources Association / ELRA CEO	

10:30-11:00 Session Keynote 1

Moderators:

- Mr Marko Grobelnik Researcher, Jozef Stefan Institute, Slovenia
- Mr Heather Souther Program Coordinator, Prairies to Woodlands, Indigenous Language Revitalization Circle, Canada

Rapporteur:

- Ms Eugenia Urrere Director, Latinoamerica Habla, Argentina
- Mr Daan van Esch Senior Technical Program Manager, Google, Inc., USA
Building Language Technologies for Everyone
-

11:00-11:30 Poster Session P1: Pacific Languages Coffee Break - Poster Area Hall Segur

Moderators/Rapporteurs:

- Mr Steven Bird Professor, Charles Darwin University, Australia
- Ms Apolonia Tamata Senior Culture & Heritage Specialist, iTaukei Trust Fund, Fiji
- Ms Isabella Shields Research Assistant, University of Auckland, New Zealand

P.1.1 Ms Ana Krajinovic Humboldt-Universität zu Berlin/The University of Melbourne
Germany/Australia

Ms Ana Krajinovic, Ms Rosey Billington, Mr Lionel Emil, Mr Gray Kaltaḗau and Mr Nick Thieberger

Building capacity for community-led documentation in Erakor, Vanuatu

P.1.2 Ms Amanda Harris University of Sydney, Australia

Ms Amanda Harris and Mr Nick Thieberger

PARADISEC (Pacific and Regional Archive for Digital Sources in Endangered Cultures)

P.1.3 Mr Paul Nelson SIL International, USA

Mr Paul Nelson

Bloom Books

P.1.4 Ms Isabella Shields University of Auckland, New Zealand

Ms Isabella Shields, Ms Catherine Watson, Mr Peter Keegan, Ms Rebekah Berriman and Ms Jesin James

Creating a Synthetic Te Reo Māori Voice

11:30-13:00 Session 5: Innovative aspects related to applications of Language Technologies in various areas, products and services

Moderators:

Ms Febe de Wet Research Associate, Stellenbosch University, South Africa

Mr Hermann Ney Professor, RWTH Aachen University, Germany

Rapporteur:

Ms Ethel Ong Associate Professor, De La Salle University, Philippines

11:30 – 11:40 Mr Shehzad Mevawalla Director Alexa Speech Recognition, Amazon, USA
Alexa, how do language technologies work?

11:40 – 11:50 Mr Kelly Davis Machine Learning Group Manager, Mozilla, Germany
Common Voice and Deep Speech: Democratizing Speech Corpora and Tools

11:50 – 12:00 Mr Dmitriy Genzel Research scientist manager, Facebook, Inc., USA
Large-scale content understanding on Facebook

12:00 – 12:10 Mr Radu Florian Senior Manager and Distinguished Research Staff
Member, IBM Research AI, (USA)
The Journey to Multilingual Watson: Best Practices for Building NLP Models for New Languages

12:10 – 12:20 Mr Shijin Wang Dean of iFLYTEK AI Research, IFLYTEK, China
How do Speech Translation Technologies work in iFLYTEK Translator

12:20 – 12:30 Mr Amit Kumar President, Chief Science Officer (CSO), Chief Technology
Pandey Officer (CTO), Hanson Robotics, China
***Language Technologies, Social Robots and the Society-
The needs, challenges and the impact***

12:30-13:00 Panel discussion

**13:00-14:30 Poster Session 2: European and Arctic Languages
During Lunch Break - Poster Area Hall Segur**

Moderators/Rapporteurs:

Ms Teresa Lynn	Research Fellow, ADAPT Centre, Dublin City University, Ireland
Mr Daniil Kocharov	Associate Professor, Saint Petersburg State University, Russian Federation
Mr Vicent Fenollar	Policy and Outreach Manager, Network to Promote Linguistic Diversity (NPLD), Belgium

P.2.1 Mr Peter Bouda Poio

Mr Peter Bouda

Poio - Open Source Technology for Language Diversity

P.2.2 Mr Thierry Declerck DFKI GmbH

Mr Simon Krek, Mr Thierry Declerck, Mr John Philip McCrae and Ms Tanja Wissik

Towards a Global Lexicographic Infrastructure

P.2.3 Mr Laurent Kevers Università di Corsica Pasquale Paoli

Mr Laurent Kevers, Ms Stella Retali-Medori, Mr Florian Guéniot and Ms A. Ghjacumina Tognotti

Tooling up a less-resourced language with NLP : the example of Corsican and the "Banque de Données Langue Corse" (BDLC, Corsican Language Database)

P.2.4 Ms Anna Nikulásdóttir Grammatek ehf

Ms Anna Nikulásdóttir

Language Technology Program for Icelandic

P.2.5 Mr Philippe Boula de Mareüil LIMSI-CNRS

Mr Philippe Boula de Mareüil, Mr Gilles Adda, Mr Albert Rilliard and Mr Frédéric Vernier

A speaking atlas of indigenous languages of France and its Overseas

P.2.6 Mr Aidar Khusainov Institute of Applied Semiotics of the Tatarstan Academy of Sciences

Mr Dzhavdet Suleymanov, Mr Aidar Khusainov and Mr Rinat Gilmullin

Software and Linguistic Resources for the Tatar language preservation and development: Regional Experience

P.2.7 Ms Victoria Bobicev Technical University of Moldova

Ms Victoria Bobicev, Ms Catalina Mărănduc, Mr Tudor Bumbu, Ms Ludmila Malahov, Mr Alexandru Colesnicov and Ms Svetlana Cojocar

Contribution to the Universal Dependencies Treebank of Non-Standard Romanian Texts

P.2.8	Ms Claudia Soria	Consiglio Nazionale delle Ricerche - Istituto di Linguistica Computazionale "A. Zampolli"
Ms Claudia Soria and Mr Cor van der Meer <i>Inquiring about digital use and usability of minority languages: the approach of the Digital Language Diversity Project</i>		
P.2.9	Ms Patricia Serbac	University of Tîrgu-Mureş
Ms Patricia Serbac <i>Language Technologies for Istro-Romanian</i>		
P.2.10	Ms Birna Arnbjörnsdóttir	Vigdis Institute, University of Iceland
Ms Birna Arnbjörnsdóttir and Ms Auður Hauksdóttir <i>Innovative CALL Solutions and the Sustainability of Nano Languages in the North West Arctic Region</i>		
P.2.11	Mr Brendan Molloy	The Techno Creatives
Mr Brendan Molloy <i>Indigenous/Minority Language Keyboard and Spell Checking Support, for Desktop and Mobile Operating Systems</i>		
P.2.12	Mr Damien Nouvel	Inalco ERTIM
Mr Damien Nouvel, Mr Driss Sadoun and Mr Mathieu Valette <i>MultiTAL : an online platform to list NLP tools for under-resourced languages</i>		
P.2.13	Mr Valeriy Pylypenko	Speech Science and Technology Department International Research/Training Center for Information Technologies and Systems, Kyiv
Mr Valeriy Pylypenko and Ms Tetyana Lyudovyk <i>Automatic Recognition of mixed Ukrainian-Russian Speech</i>		
P.2.14	Mr Mikel L. Forcada	Universitat d'Alacant
Mr Mikel L. Forcada and Mr Francis Tyers <i>Apertium: a free/open-source platform for machine translation and basic language technology</i>		
P.2.15	Ms Oana Niculescu	The Romanian Academy Institute of Linguistics "Iorgu Iordan – Al. Rosetti"
Ms Oana Niculescu, Ms Maria Marin and Ms Daniela Răuţu <i>Rediscovering past narrations: the oral history of the Romanian language preserved within the national phonogramic archive</i>		
P.2.16	Mr Trond Trosterud	U Tromsø
Mr Sjur Moshagen, Ms Lene Antonsen and Mr Trond Trosterud <i>Language technology for indigenous languages: Achievements and challenges</i>		
P.2.17	Ms Tracey Herbert	First Peoples Cultural Council
Ms Lorna Williams, Ms Tracey Herbert and Mr Daniel Yona <i>Using technology to empower Indigenous knowledge sharing</i>		
P.2.18	Ms Sabine Kirchmeier	Dansk Sprognævn/Danish Language Council & Kirchmeier.dk
Ms Sabine Kirchmeier <i>European Language Monitor by EFNIL</i>		

P.2.19	Ms Amel Fraisse	Université de Lille
Ms Amel Fraisse, Mr Ronald Jenn, Ms Shelley Fisher Fishkin and Mr Zheng Zhang <i>Preserving Endangered European Cultural Heritage and Languages Through Translated Literary Texts</i>		
P.2.20	Ms Benedicte Haraldstad Frostad	The Language Council of Norway
Ms Benedicte Haraldstad Frostad <i>Towards ASR that recognises everyone in a country with no spoken standard</i>		
P.2.21	Mr Jack Rueter	University of Helsinki, Digital Humanities
Mr Jack Rueter <i>Komi Latin-Alphabet Letters Not Found in Unicode</i>		
P.2.22	Mr Niko Partanen	University of Helsinki
Mr Niko Partanen, Mr Michael Rießler and Mr Thierry Poibeau <i>Developing technologies for low-resource Uralic languages: Case studies on Saami and Komi varieties</i>		
P.2.23	Ms Maria Eskevich	CLARIN ERIC
Ms Maria Eskevich and Ms Franciska de Jong <i>Understanding culture and society with the language resources and tools offered through the CLARIN Research Infrastructure</i>		
P.2.24	Mr Alexey Karpov	St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences
Mr Alexey Karpov, Mr Ildar Kagirov, Mr Dmitry Ryumin and Mr Alexander Axyonov <i>A Multimodal Database of Russian Sign Language</i>		
P.2.25	Mr Mikkel Rasmus Logje	The Sámi Parliament
Mr Mikkel Rasmus Logje <i>Sámi languages</i>		
P.2.26	Mr Tamás Váradi	MTA Research institute for Linguistics
Mr Marko Tadić and Mr Tamás Váradi <i>LT Data Free for All</i>		
P.2.27	Ms Jacqueline Brixey	USC Institute for Creative Technologies
Ms Jacqueline Brixey, Mr Seyed Hossein Alavi and Mr David Traum <i>Can we use a spoken Dialogue System to document Endangered Languages?</i>		
P.2.28	Ms Adrià Martín-Mor	Universitat Autònoma de Barcelona
Ms Adrià Martín-Mor <i>Technologies for Endangered Languages: The Case of the Languages of Sardinia</i>		

14:30-16:15 Session 6: Scientific aspects related to the state of the art in Language Technologies, for spoken, written and sign languages

Moderators:

Mr Volker Steinbiss General Manager AppTek, Germany
Ms Ximena Gutierrez-Vasques Postdoctoral Researcher, Universität Zürich, Switzerland

Rapporteur:

Ms Dessi Puji Lestari Head of Research and Development of Artificial Intelligence
Research Centre, Bandung Institute of Technology /
Prosa.ai, Indonesia

14:30-14:40 Ms Judith Klavans Senior Research Scientist, University of Maryland,
USA

Achievements and Contributions from Natural Language Processing (NLP)

14:40-14:50 Mr Jean Senellart CEO, Systran, France
NMT4All (Neural Machine Translation for All)

14:50-15:00 Mr Alex Waibel Professor, Director, Karlsruhe Institute of
Technology, Institute for Anthropomatics and
Robotics, Germany

Mr Sebastian Stüker
Associate Fellow, Karlsruhe Institute of Technology
(KIT), and CEO, Karlsruhe Information Technology
Solutions – kites GmbH

Communicating with Everybody: Going the Extra Mile toward Automatic Simultaneous Interpretation for All

15:00-15:10 Ms Aijun Li Professor, Institute of Linguistics,
Chinese Academy of Social Sciences, China

Handling Prosody and Tone Languages

15:10-15:20 Mr Ahmed Ali Principal Engineer, Qatar Computing Research
Institute, Hamad Ben Khalifa University, Qatar

Dialectal Speech Processing: Past, Present, Future

15:20-15:30 Mr Roger Moore Professor of Spoken Language Processing,
University of Sheffield, UK

Talking with Robots: Opportunities and Challenges

15:30-15:40 Mr Thomas Hanke Researcher, Universität Hamburg, Germany
Recent Advances on Sign Language Technologies

15:40-16:15 Panel Discussions

16:15-16:45 Poster Session 3: Latin America and the Caribbean Languages Coffee Break - Poster Area Hall Segur

Moderators/Rapporteurs:

Mr Francisco Cláudio Samapaio de Menezes Adjunct Professor, University of Brasilia, Brazil

Mr Marco Antonio Martínez Pérez Activist, Kumoontun, Mexico

Ms Anuschka van 't Hooft Professor, Autonomous University of San Luis Potosí, Mexico

P.3.1 Mr Jhonnatan Rangel INALCO-SeDyL

Jhonnatan Rangel

Challenges for language technologies in Ayapaneco

P.3.2 Mr Michael Gasser Indiana University

Mr Michael Gasser

Mainumby: computer-assisted Spanish-to-Guarani translation

P.3.3 Mr Maximiliano Duran Université Franche-Comté

Mr Maximiliano Duran

Baby Quechua robot

P.3.4 Ms Cynthia Montaña Universidad Nacional Autónoma de México

Ms Cynthia Montaña, Mr Gerardo Sierra Martínez and Ms Gemma Bel-Enguix

On the development of the Mexican Languages Parallel Corpus

P.3.5 Ms Tajëëw Díaz Colmix

Ms Tajëëw Díaz

Project: Endless Oaxaca Multilingual

P.3.6 Ms Alejandrina Cristia Laboratoire de Sciences Cognitives et Psycholinguistique (ENS, EHESS, CNRS), Département d'Études Cognitives, Ecole Normale Supérieure, PSL Research University

Ms Camila Scaff, Mr Marvin Lavechin and Ms Alejandrina Cristia

Large-scale audio-recordings to study infant language acquisition

P.3.7 Ms Vania Ramírez UNAM

Ms Vania Ramírez

Nierika Red Social para aprender y enseñar una lengua indígena

P.3.8 Ms Purvi Shah Pratham Books

Ms Purvi Shah

Preserving indigenous languages in south and central America by leveraging open licensing and technology

P.3.9 Ms Ximena Gutierrez-Vasques UNAM

Ms Ximena Gutierrez-Vasques and Mr Victor Mijangos

Comunidad Elotl. Language Technologies for Mexico's Indigenous Languages

P.3.10 Ms Emiliana Cruz CIESAS-CDMX

Ms Emiliana Cruz

Language and Landscape: Hiking and Documenting the Chatino Language of San Juan Quiahije

P.3.11 Mr Luis Flores Martínez National Institute of indigenous languages of Mexico (INALI)

Mr Luis Flores Martínez

Resources and digital materials in Mexico's indigenous languages

P.3.12 Mr Marco Martinez Kumootun

Mr Marco Martinez

Ayöök, México

16:45-18:15 Session 7: Infrastructural aspects

Moderators:

Mr Mark Liberman Professor, University of Pennsylvania, USA

Ms Amanda Harris Research Fellow, Director of PARADISEC Sydney unit
PARADISEC, University of Sydney, Australia

Rapporteur:

Mr Alexey Karpov Head of the Speech & Multimodal Interfaces Lab. St. Petersburg
Institute for Informatics and Automation of the Russian Academy of
Sciences, Russian Federation

16:45-16:55 Ms Denise di Persio Associate Director, Linguistic Data Consortium
University of Pennsylvania, USA

The Linguistic Data Consortium: Developing and Distributing Language Resources4All

16:55-17:05 Mr Yohei Murakami Associate Professor, Risumeikan University, Japan

Language Sphere: A Socio-Technical Approach to Bilingual Dictionary Creation for Indigenous Languages

17:05-17:15 Mr Craig Cornelius Senior Software Engineer, International
Engineering Google, Inc. USA

Every Language on the Web - How Unicode makes it happen!

17:15-17:25 Mr Carl Rubino Research Program Manager, IARPA, USA
IARPA's Contribution to Low Resource HLT Development and Evaluation

17:25-17:35 Mr Sanjeev Associate Professor, The Johns Hopkins
Khudanpur University, USA

Open source toolkits and Tutorial/Summer school

17:35-17:45 Mr Georg Rehm Principal Researcher and Research Fellow, DFKI
GmbH, Germany

European Language Grid: Language Technologies for Europe

17:45-18:15 Panel discussion

18:30-20:30 Social event (Welcome Reception Hall Segur)

Moderators/Rapporteurs:

Ms Sakriani Sakti	Associate Professor, Nara Institute of Science and Technology, Japan
	Secretary of SIGUL, ELRA-ISCA Special Interest Group of Under-Resourced Languages, France
Mr Joseph Mariani	Senior Researcher, LIMSI-CNRS, France; Honorary President of ELRA, France
Mr Khalid Choukri	Secretary General, European Language Resources Association / ELDA CEO, France

Special event (1)	Mr Tunde Adegbola	Executive Director, African Languages Technology Initiative (Alt-i), Nigeria
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Yoruba Drum Language: Implications for Language Technology

Special event (2)	Mr Rory O'Connor	Chief Executive Officer, Yugambah Museum, Australia
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How Yugambah's Aboriginal language revitalisation has helped shape Woolaroo, an App for all Indigenous languages

Programme 6 December 2019

Day 3. CHALLENGES:

Addressing the digital divide and multilingualism

(Room II and Poster area: Hall Segur)

09:00-09:30 Session Keynote 2:

Moderators:

Ms Tanja Shultz Professor, University of Bremen, Cognitive Systems Lab,
Germany

Mr Justus Roux Researcher, South African Centre for Digital Language
Resources (SADiLaR), South Africa

Rapporteur:

Mr Priyankoo Sarmah Associate Professor, Indian Institute of Technology Guwahati,
India

09:00-09:30 Ms Lorna Williams Board Member; Prof Emerita, First Nations Cultural
Foundation; University of Victoria, Canada

***Wa7 szum'in'stum' ti nqwelutenlhkalha - Technology and Indigenous Language
Revitalization, Recovery and Normalization***

09:30-11:00 Session 8: **Minority and Indigenous Languages**

Moderators:

Mr Yoshinori Sagisaka Professor, Waseda University, Japan

Ms Sonja Bosch Professor, University of South Africa, South Africa

Rapporteur:

Ms Claudia Soria Researcher, Consiglio Nazionale delle Ricerche, Italy

09:30-09:40 Mr Borja L.C. Patrocino Universidade Nacional de Timor Leste, Timor Leste
Antonino

Speech Technology for Indigenous Language in Timor Leste

09:40-09:50 Ms Evelyn Fogwe Professor of Linguistics, University of Buea, Cameroon
Chibaka

***Language Technology Applications in Africa within an "Inclusive, innovative and reflective"
crisis Interface***

09:50-10:00 Ms Fadoua Ataa Allah Director, Centre des Etudes Informatiques, IRCAM,
Morocco

The IRCAM Realizations for the Amazigh Preservation and Revitalization in Morocco

10:00-10:10	Ms Aili Keskitalo	President of the Sami Parliament and Co-chairs of the Steering Committee of International Year of Indigenous Languages, Norway
<i>The voices of Indigenous Languages in the infinite cyberspace</i>		
10:10-10:20	Ms Cecilia Piaggio	Founder / Program Director, Latinoamérica Habla / RWS Moravia, Argentina
<i>Our learnings when rolling out tech initiatives in Qom</i>		
10:20-10:30	Ms Apolonia Tamata	Senior Culture & Heritage Specialist, iTaukei Trust Fund, Fiji
<i>Challenges with indigenous minority languages and language technologies</i>		

10:30-11:00 Panel discussion

11:00-11:30 Poster Session 4: African Languages Coffee Break - Poster Area Hall Segur

Moderators/Rapporteurs:

Ms Dorothy Beermann	Professor, Norwegian University of Science and Technology, Norway
Ms Evelyn Fogwe Chibaka	Professor of Linguistics, University of Buea, Cameroon
Mr Audace Niyonkuru	Chief Executive Officer, DIGITAL UMUGANDA, Rwanda

P.4.1 Ms Marissa Griesel University of South Africa
Ms Sonja Bosch and Ms Marissa Griesel
African Wordnet – digital documentation and preservation of indigenous knowledge

P.4.2 Ms Brigitte BIGI LPL, CNRS, Aix-en-Provence, (France)
Ms Brigitte BIGI
Automated Speech Segmentation: Example of an African Language

P.4.3 Z Steyn SADiLaR
Z Steyn
Establishing Sustainable Infrastructures for African Languages

P.4.4 Ms Febe De Wet Stellenbosch University
Ms Febe De Wet, Mr Ewald Van der Westhuizen and Mr Thomas Niesler
A South African Corpus of Multilingual Code-switched Soap Opera Speech

P.4.5 Mr Valentin Vydrin INALCO
Mr Valentin Vydrin
Corpora Mandeica: text corpora for Mande languages (West Africa)

P.4.6 Ms Kerry Jones African Tongue and Stellenbosch University
Ms Kerry Jones

Missing link: A centralised digital archive for endangered languages of southern Africa

P.4.7 Mr Christopher Cieri Linguistic Data Consortium,
University of Pennsylvania

Mr Christopher Cieri and Mr Mark Liberman

Using Citizen Linguistics to Empower Indigenous Communities

P.4.8 Mr Lulamile Mzamo North-West University

Mr Lulamile Mzamo, Mr Albert Helberg and Ms Sonja Bosch

Heuristic guided probabilistic graphic language modelling for morphological segmentation of isiXhosa

P.4.9 Ms Febe De Wet Stellenbosch University

Mr Astik Biswas, Ms Febe De Wet, Mr Herman Kamper, Raghav Menon, Mr Thomas Niesler, Mr Armin Saeb, Mr John Quinn, Mr Ewald Van der Westhuizen and Emre Yilmaz

Radio-browsing in support of relief and development work in rural Africa

P.4.10 Ms Martha Yifiru Tachbelie Addis Ababa University

Ms Martha Yifiru Tachbelie, Mr Solomon Teferra Abate and Ms Tanja Schultz

Analysis of Language Relatedness for the Development of Multilingual Automatic Speech Recognition for Ethiopian Languages

P.4.11 Mr Lucas Ondel Brno University of Technology

Mr Lucas Ondel and Mr Lukas Burget

Automatic Learning of a Phonological System: a Case Study on the Mboshi Language

P.4.12 Mr Seid Yimam Universität Hamburg

Mr Seid Yimam and Mr Chris Biemann

Current Status, Issues, and Future Directions for Ethiopian Natural Language Processing (NLP) Research

P.4.13 Mr Martin Benjamin Kamusi Project International

Mr Martin Benjamin

ACALAN: Platform for African Language Empowerment (PALE)

P.4.14 Mr Moses Ekpenyong University of Uyo

Mr Moses Ekpenyong, Ms Eno-Abasi Urua and Mr Aniefon Akpan

SCAnnAL – An Automatic Speech Corpus Annotator for African Speech Corpora

P.4.15 Mr Damien Nouvel Inalco ERTIM

Mr Elvis Mboning and Mr Damien Nouvel

NTeALan - Artificial Intelligence, Development and Promotion of African National Languages

P.4.16 Mr Sunday Ojo Tshwane University of Technology

Mr Sunday Ojo

Grappling with Opportunities and Challenges in developing Language Technologies for Under-resourced African Languages

P.4.17 Ms Fatiha Sadat UQAM

Mr Houssein Ahmed Assowe and Ms Fatiha Sadat

Towards the First Low-Resource French-Somali Machine Translation System

P.4.18 Ms Fatiha Sadat UQAM

Bilal Belainine and Ms Fatiha Sadat

Automatic Dialect Detection in Arabic Broadcast Media

P.4.19 Mr Abdoulaye Barry Winden Jangen

Mr Abdoulaye Barry and Mr Ibrahim Barry

The ADLaM Story

11:30-13:00 Session 9: Activities for language preservation, reclamation, and enhancement

Moderators:

Ms Cynthia Montaña Project Manager, Grupo de Ingeniería Lingüística, Mexico

Mr Mikel Lorenzo Forcada Zubizarreta Professor, Universitat d'Alacant, Spain

Rapporteur:

Mr Satoshi Tamura Associate Professor, Gifu University, Japan

11:30-11:40 Mr Steven Bird Professor, Charles Darwin University, Australia

Designing for Language Revitalisation

11:40-11:50 Ms Mandana Seyfeddinipur Endangered Languages Documentation Programme, Director, SOAS University of London, UK

We just scratched the surface: 16 years of supporting endangered languages documentation

11:50-12:00 Mr Alan Black Professor, Carnegie Mellon University, USA

Using found data to build speech recognition and speech synthesis for all languages

12:00-12:10 Mr Antti Arppe Associate Professor, University of Alberta, Canada

21st century language technology and tools meet 21st century challenges and opportunities

12:10-12:20 Ms Jeannette Stewart Founder, Translation Commons, USA

Translation Commons: No Language and No Linguist Left Behind

12:20-12:30 Mr David Traum Research Professor, University of Southern California, USA

Conversations with History: Spoken dialogue technology to preserve culture and language

12:30-13:00 Panel discussion

13:00-14:30 Poster Session 5: Asian Languages Lunch Break - Poster Area Hall Segur

Moderators/Rapporteurs:

Ms Budi Irmawati	Lecturer, University Mataram, Indonesia
Mr Lorang Yun	Secretariat Coordinator, Cambodia Indigenous Peoples Alliance, Cambodia
Mr Netra Mani Rai	Language Development Project Adviser, International Nepal, Nepal

P.5.1	Mr Thierry Declerck	DFKI GmbH
Mr John McCrae and Mr Thierry Declerck <i>Linguistic Linked Open Data for All</i>		
P.5.2	Mr Mohammad Nurul Huda	United International University and eGeneration Ltd.
Mr Mohammad Nurul Huda <i>Bangla Text and Spoken Language Technology</i>		
P.5.3	Mr Bal Krishna Bal	Department of Computer Science and Engineering, Kathmandu University, Nepal
Mr Bal Krishna Bal, Mr Amrit Yonjan Tamang and Mr Lasang Jimba Tamang <i>Envisioning a Trilingual Machine Translation System for the Language Pairs – <Tamang –English –Nepali></i>		
P.5.4	Mr Marc Durdin	SIL International
Mr Marc Durdin, Mr Sok Makara, Mr Joshua Horton and Ty Rasmey <i>Keyman: High Fidelity Text Input for All Languages</i>		
P.5.5	Ms Natsuko Nakagawa	National Institute for Japanese Language and Linguistics
Ms Natsuko Nakagawa, Mr Masahiro Yamada, Mr Kenan Celik, Ms Nobuko Kibe and Mr Yukinori Takubo <i>Digital archiving and museum for language documentation and revitalization in Japan</i>		
P.5.6	Ms Sunayana Sitaram	Microsoft Research India
Ms Sunayana Sitaram, Mr Monojit Choudhury and Ms Kalika Bali <i>Project M�elange: Speech and Language Technologies for Code-switching</i>		
P.5.7	Mr Martin Raymond	SIL International
Mr Martin Raymond and Mr Peter Martin <i>Providing smart, open fonts for the world’s language communities</i>		
P.5.8	Ms Dessi Puji Lestari	Institut Teknologi Bandung
Ms Ayu Purwarianti, Ms Dessi Puji Lestari and Mr Teguh Eko Budiarto		

InaNLP: Indonesian Natural Language Processing Tools API

- P.5.9 Mr Alexis MICHAUD CNRS - LACITO
Ms Séverine Guillaume, Mr Balthazar Do Nascimento and Mr Alexis MICHAUD
The Pangloss Collection: an open archive of under-documented languages designed with Natural Language Processing in view
- P.5.10 Mr Virach Sornlertlamvanich Faculty of Data Science, Musashino University
Mr Virach Sornlertlamvanich, Mr Teguh Eko Budiarto and Ms Thatsanee Charoenporn
Multi-lingual Support in Connective Learning Scheme for Refining and Connecting the Open Educational Videos
- P.5.11 Ms Ethel Ong De La Salle University
Ms Ethel Ong, Ms Nathalie Rose Lim-Cheng, Ms Charibeth Cheng and Mr Edward Tighe
Promoting and Preserving Philippine Culture and Languages through Language Technologies
- P.5.12 Mr Virach Sornlertlamvanich Faculty of Data Science, Musashino University
Ms Thatsanee Charoenporn and Mr Virach Sornlertlamvanich
Improvement of Thai NER and the Corpus
- P.5.13 Ms Kalika Bali Microsoft Research Labs
Ms Kalika Bali, Mr Monojit Choudhury, Ms Sunayana Sitaram and Mr Sebastin Santy
Deploying Language Technologies for Underserved Communities
- P.5.14 Ms Angelina Aquino University of the Philippines Diliman
Ms Angelina Aquino and Mr Rhandley Cajote
Language Technologies at the University of the Philippines Dlliman
- P.5.15 Mr Tenzin Namgyel Dzongkha Development Commission
Mr Tenzin Namgyel
Languages and Technology in Bhutan
- P.5.16 Mr Ramakrishnan Angarai Ganesan Indian Institute of Science
Mr Ramakrishnan AngaraiGanesan
Language technology at MILE Lab, Indian Institute of Science
- P.5.17 Mr Udaya Narayana Singh Amity University Haryana
Udaya Narayana Singh
Multilingual profile of India
- P.5.18 Mr Udaya Narayana Singh Amity University Haryana
Mr Udaya Narayana Singh, Ms Esha Jainiti, Ms Rusha Mudgal and Ms Anwita Maiti
Mediating Multilingualism
- P.5.19 Mr Vijay Kumar Ministry of Electronics and Information Technology
Vijay Kumar and Dr S K Srivastava
Technology Development for Indian Languages
- P.5.20 Ms Purvi Shah Pratham Books
Ms Purvi Shah

Creating access to openly licensed early reading resources in Asia's indigenous languages

P.5.21 Mr Virach Sornlertlamvanich Faculty of Data Science, Musashino University

Ms Ari Yanase, Ms Thatsanee Charoenporn and Mr Virach Sornlertlamvanich

Conversational Bot for Eyesight Testing Automation

P.5.22 Mr Arbi Haza Nasution Universitas Islam Riau

Mr Arbi Haza Nasution and Mr Totok Suhardijanto

Dictionary 4.0: Alternative Presentations for Indonesian Multilingual Dictionaries

P.5.23 Ms Viyazonuo Terhijja Indian Institute of Technology Guwahati

Ms Viyazonuo Terhijja, Mr Samudra Vijaya and Mr Priyankoo Sarmah

Speech Technology in three tonal languages of North-East India

P.5.24 Ms Win Pa Pa University of Computer Studies, Yangon

Ms Win Pa Pa

Bringing Zero-resourced Languages of Myanmar to the Digital World

P.5.25 Mr Totok Suhardijanto University of Indonesia

Mr Totok Suhardijanto and Ms Arawinda Dinakaramani

Building Corpora for Under-Resourced Languages in Indonesia

P.5.26 Mr Ritesh Kumar Department of Linguistics, Dr. Bhimrao Ambedkar University, Agra

Mr Ritesh Kumar, Ms Bornini Lahiri, Mr Atul Kr. Ojha, Mr Mayank Jain and Mr Deepak Alok

Language Resources and Technology Development Efforts for some Lesser-known Indian Languages

P.5.27 Mr David Yarowsky Johns Hopkins University

Mr David Yarowsky, Mr Arya D. McCarthy, Mr Garrett Nicolai, Mr Winston Wu, Mr Aaron Mueller, Mr Dylan Lewis, Ms Yingqi Ding, Mr Abhinav Nigam, Mr Emre Ozgu, Mr Debanik Purkayastha, Mr James Scharf and Mr Kenneth Zheng

A 1000-language Collaborative Universal Dictionary and Universal Translator

P.5.28 Mr Nathaniel Oco De La Salle University

Mr Nathaniel Oco

Tagalog-English Code-Switching: Challenges for Automatic Detection

P.5.29 Ms Fatiha Sadat UQAM

Mr Tan Ngoc Le and Ms Fatiha Sadat

How a low-resource named entities recognition and transliteration framework for Vietnamese can improve the automatic machine translation ?

P.5.30 Mr Shyam Sundar Agrawal KIIT College of Engineering, Gurgaon

Ms Shweta Sinha and Mr Shyam Sundar Agrawal

Situation and challenges of technologies for indigenous languages of India

P.5.31 Mr Craig Cornelius Google, Inc.

Mr Craig Cornelius

Unicode for Indigenous Languages - Standards and technology for getting online

Wei Wang, Ms Aijun Li and Ms Danqing LIU

CASS-LING's Linguistic Infrastructure: Resources, Platforms and Services**14:30-16:00 Session 10: Scientific aspects related to handling language diversity****Moderators:**

Mr Laurent Besacier Professor, LIG - University Grenoble Alpes (France)

Mr Ossama Emam IBM Senior Technical Staff Member, IBM Egypt, (Egypt)

Rapporteur:

Mr Nathaniel Oco De La Salle University (Philippines)

14:30-14:40 Ms Odette Scharenborg Associate Professor, Delft University of Technology, Netherland

Towards speech technology for unwritten languages

14:40-14:50 Mr Satoshi Nakamura Professor, Nara Institute of Science and Technology, Japan

Semi-supervised learning: Machine Speech Chain, Code-switch & Automatic Interpretation

14:50-15:00 Mr TrondTrosterud, Mr Sjur Nørstebø Moshagen Professor of Saami Language Technology Chief Engineer, UiT The Arctic University of Norway, Norway

Rich morphology, no corpus - and we still made it. The Sámi experience

15:00-15:10 Mr Holger Schwenk Professor, Facebook, France

Mining for Multilingual Resources on the WEB

15:10-15:20 Mr Brian Roark Research Scientist, Google, Inc. USA

Text entry for All

15:20-15:30 Ms Kalika Bali Principal Researcher, Microsoft Research Labs India, India

Evaluating Speech Data and Technology for Indian Languages

15:30-16:00 Panel discussion

16:00-16:30 Poster Session 6: North America Languages
Coffee Break - Poster Area Hall Segur

Moderators/Rapporteurs:

Mr Chris Cieri	Adjunct Associate Professor, Linguistics; Executive Director, Linguistic Data Consortium, University of Pennsylvania, USA
Mr Francis Tyers	Assistant Professor, Indiana University, USA
Mr Jan Trmal	Associate Research Scientist, Johns Hopkins University, USA

P.6.1 Ms Lynne Bowker University of Ottawa
Ms Lynne Bowker
Machine Translation 4 All: Developing informed and critical users through a program of machine translation literacy

P.6.2 Ms Marie-Odile Junker Carleton University
Ms Marie-Odile Junker and Delasie Torkornoo
Building a common Digital Infrastructure to sustain Algonquian Languages

P.6.3 Ms Emily Prud'hommeaux Boston College
Ms Emily Prud'hommeaux, Mr Robert Jimerson, Mr Richard Hatcher, Mr Raymond Ptucha and Ms Karin Michelson
On the promise and pitfalls of repurposing existing language technologies for endangered language documentation

P.6.4 Ms Alexa Little 7000 Languages
Ms Alexa Little, Ms Kayleigh Jeannette and Ms Kelsey Riggs
7000 Languages: Free Language-Learning Software for Language Reclamation

P.6.5 Mr Aidan Pine National Research Council Canada
Mr Aidan Pine, Mr Nathan Brinklow, Ms Heather Souter and Ms Delaney Lothian
National Research Council Canada Indigenous Language Technology Project

P.6.6 Ms Lane Schwartz University of Illinois at Urbana-Champaign
Ms Lane Schwartz, Ms Emily Chen, Ms Hayley Park, Ms Sylvia Schreiner and Mr Benjamin Hunt
St. Lawrence Island Language Technology for Documentation & Revitalization

P.6.7 Delaney Lothian University of Alberta
Ms Delaney Lothian, Ms Daniela Teodorescu, Mr Denilson Barbosa and Ms Carrie Demmans Epp
Building a Language Model of Nehiyawewin (Cree, Y-dialect)

P.6.8 Mr Roy Boney Cherokee Nation

Mr Roy Boney

From Talking Leaves to Pixels: The Evolution of the Cherokee Syllabary

P.6.9 Ms Jacqueline Brixey USC Institute for Creative Technologies

Ms Jacqueline Brixey

ChoCo: A multimodal corpus for the Choctaw language

P.6.10 Ms Fatiha Sadat UQAM

Ms Fatiha Sadat, Mr Tan Ngoc Le and Mr David Huggins Daines

Issues and challenges of NLP in relation to Canada's Aboriginal languages

16:30-17:30 Session 11: Developing Language Technologies for All: Best Practices

Moderators:

Ms Delyth Prys Head of Language Technologies, Bangor University, UK

Ms Astrid Berengere Mengue Project Coordinator, Center for Human Rights and Democracy in Africa, Cameroon

Rapporteur:

Ms Emiliana Cruz Researcher, CIESAS-CDMX, Mexico

16:30-16:40 S.K. Srivastava Senior Director/Scientist G, Government of India, Ministry of Electronics and IT, India

Technology Development for Indian Languages: Government Initiatives

16:40-16:50 Mr Juan Steyn Project Manager
South African Centre for Digital Language Resources
South Africa

The South African Research Infrastructure Roadmap and national mandate of the South African Centre for Digital Language Resources

16:50-17:00 Mr Vaine Tutai Language Programme Lead, Ministry for Pacific Peoples, New Zealand
Richard

Lalanga Fou: weaving a new collaborative and regional approach to ensure the survival of Pacific languages, cultures and identities in Aotearoa New Zealand and the Pacific Oceania region through technology

17:00-17:10 Mr Aodhán Mac Cormaic Director, Ministry for Culture, Heritage and the Gaeltacht, Ireland

Language technologies in the language planning framework for Irish

17:10-17:20 Mr Norberto Zamora Chief of Department, Instituto Nacional de los Pueblos Indígenas - Departamento de Medios Digitales, Mexico

Códice México

17:20-17:30 Ms Tracey Herbert Chief Executive Officer, First Peoples' Cultural Council, Canada

Indigenous perspective on developing and maintaining an Indigenous curated Technology to support language revitalization

**17:30-18:30 Session 12: The Future of Language Technologies for All:
Outcome Document, Recommendations, and Closing remarks**

Moderators and Rapporteurs :

Mr Moez Chakchouk	Assistant Director-General for Communication and Information, UNESCO
Mr Khalid Choukri	Secretary General, European Language Resources Association / ELDA CEO
Mr Gilles Adda	Researcher, LIMSI-CNRS, France Member of the ELRA Board

Rapporteurs from Day One
