## Machine Translation Summit XVIII

Volume 2: MT Users & Providers Track

Online 16 – 20 August 2021

**Editors**:

Ben Huyck Stephen Larocca Janice Campbell Jay Marciano Konstantin Savenkov Alex Yanishevsky Stephen Richardson

ISBN: 978-1-7138-3920-0

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2021) by the Association for Computational Linguistics All rights reserved. Copyright for individual papers remains with the authors and are licensed under a Creative Commons 4.0 license, CC-BY-ND. (https://creativecommons.org/licenses/by-nd/4.0/)

Printed with permission by Curran Associates, Inc. (2022)

For permission requests, please contact the Association for Computational Linguistics at the address below.

Association for Computational Linguistics 209 N. Eighth Street Stroudsburg, Pennsylvania 18360

Phone: 1-570-476-8006 Fax: 1-570-476-0860

acl@aclweb.org

## Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2633 Email: curran@proceedings.com Web: www.proceedings.com

## Contents

1 Roundtable: Building MT Capacity and Competence In-House Digital Marketing Globalization at NetApp: A Case Study of Digital Transformation utilizing Neural Machine Translation

Edith Bendermacher

- 7 Roundtable: Building MT Capacity and Competence In-House Neural Machine Translation at Ford Motor Company Nestor Rychtyckyj
- 17 Roundtable: Building MT Capacity and Competence In-House Salesforce NMT System: A Year Later

Raffaella Buschiazzo

- 29 Roundtable: Building MT Capacity and Competence In-House Autodesk: Neural Machine Translation – Localization and beyond Emanuele Dias
- 38 Government Track: Neural Translator Designed to Protect the Eastern Border of the European Union Artur Nowakowski and Krzysztof Jassem
- 44 Government Track: Corpus Creation and Evaluation for Speech-to-Text and Speech Translation Corey Miller, Evelyne Tzoukermann, Jennifer Doyon and Elizabeth Mallard
- 54 From Research to Production: Fine-Grained Analysis of Terminology Integration Toms Bergmanis, Mārcis Pinnis and Paula Reichenberg
- Glossary functionality in commercial machine translation: does it help? A first step to identify best practices for a language service provider
  Randy Scansani and Loïc Dugast
- 89 Selecting the best data filtering method for NMT training Fred Bane and Anna Zaretskaya

- 98 A Review for Large Volumes of Post-edited Data Silvio Picinini
- 131 Accelerated Human NMT Evaluation Approaches for NMT Workflow Integration James Phillips
- 149 MT Human Evaluation Insights & Approaches Paula Manzur
- 166 A Rising Tide Lifts All Boats? Quality Correlation between Human Translation and Machine Assisted Translation

Evelyn Yang Garland and Rony Gao

- 175 Bad to the Bone: Predicting the Impact of Source on MT Alex Yanishevsky
- 200 Machine Translation Post-Editing (MTPE) from the Perspective of Translation Trainees: Implications for Translation Pedagogy Dominika Cholewska
- 211 Using Raw MT to make essential information available for a diverse range of potential customers Sabine Peng
- 227 Field Experiments of Real Time Foreign News Distribution Powered by MT Keiji Yasuda, Ichiro Yamada, Naoaki Okazak, Hideki Tanaka, Hidehiro Asaka, Takeshi Anzai and Fumiaki Sugaya
- 233 A Common Machine Translation Post-Editing Training Protocol by GALA Viveta Gene and Lucía Guerrero
- 246 Preserving high MT quality for content with inline tags Konstantin Savenkov, Grigory Sapunov, Pavel Stepachev
- 277 Early-stage development of the SignON application and open framework challenges and opportunities Dimitar Shterionov, John J O'Flaherty, Edward Keane, Connor O'Reilly, Marcello Paolo Scipioni, Marco Giovanelli and Matteo Villa

- 291 Deploying MT Quality Estimation on a large scale: Lessons learned and open questions Aleš Tamchyna
- 306 Validating Quality Estimation in a CAT Workflow: Speed, Cost and Quality Trade-off Fernando Alva-Manchego, Lucia Specia, Sara Szcc, Tom Vanallemeersch and Heidi Depraetere
- 316 Neural Translation for European Union (NTEU)

Mercedes García-Martínez, Laurent Bié, Aleix Cerdà, Amando Estela, Manuel Herranz, Rihards Krišlauks, Maite Melero, Tony O'Dowd, Sinead O'Gorman, Marcis Pinnis, Artūrs Stafanovič, Riccardo Superbo and Artūrs Vasiļevskis

- 335 A Data-Centric Approach to Real-World Custom NMT for Arabic Rebecca Jonsson, Ruba Jaikat, Abdallah Nasir, Nour Al-Khdour and Sara Alisis
- 353 Building MT systems in low resourced languages for Public Sector users in Croatia, Iceland, Ireland, and Norway

Róisín Moran, Carla Para Escartín, Akshai Ramesh, Páraic Sheridan, Jane Dunne, Federico Gaspari, Sheila Castilho, Natalia Resende and Andy Way

382 Using speech technology in the translation process workflow in international organizations: A quantitative and qualitative study

Pierrette Bouillon and Jeevanthi Liyanapathirana

- 396 Multi-Domain Adaptation in Neural Machine Translation Through Multidimensional Tagging Emmanouil Stergiadis, Satendra Kumar, Fedor Kovalev and Pavel Levin
- 421 cushLEPOR uses LABSE distilled knowledge to improve correlation with human translations Gleb Erofeev, Irina Sorokina, Lifeng Han and Serge Gladkoff
- A Synthesis of Human and Machine: Correlating "New" Automatic Evaluation Metrics with Human Assessments
   Mara Nunziatini and Andrea Alfieri
- 466 Lab vs. Production: Two Approaches to Productivity Evaluation for MTPE for LSP Elena Murgolo