

Proceedings of The 11th NTCIR Conference on Evaluation of Information Access Technologies

December 9-12, 2014
National Center of Sciences, Tokyo, Japan

Table of Contents

OverView

Overview of NTCIR-11	Hideo Joho and Kazuaki Kishida	1 - 7
----------------------	-----------------------------------	-------

IMine

Overview of the NTCIR-11 IMine Task	Yiqun Liu, Ruihua Song, Min Zhang, Zhicheng Dou, Takehiro Yamamoto, Makoto Kato, Hiroaki Ohshima and Ke Zhou	8 - 23
University of Hyogo at NTCIR-11 TaskMine by Dependency Parsing	Takayuki Yumoto	24 - 27
Université de Montréal at the NTCIR-11 IMine Task	Arbi Bouchoucha, Jian-Yun Nie and Xiaohua Liu	28 - 35
FRDC at the NTCIR-11 IMine Task	Zhongguang Zheng, Shuangyong Song, Yao Meng and Jun Sun	36 - 40
TUTA1 at the NTCIR-11 IMine Task	Hai-Tao Yu and Fuji Ren	41 - 48
HULTECH at the NTCIR-11 IMine Task: Mining Intents with Continuous Vector Space Models	Jose G. Moreno and Gaël Dias	49 - 52
KUIDL at the NTCIR-11 IMine Task	Takehiro Yamamoto, Makoto. P. Kato, Hiroaki Ohshima and Katsumi Tanaka	53 - 54
THUSAM at NTCIR-11 IMine Task	Cheng Luo, Xin Li, Alisher Khodzhaev, Fei Chen, Keyang Xu, Yujie Cao, Yiqun Liu, Min Zhang and Shaoping Ma	55 - 62

SEM13 at the NTCIR-11 IMINE Task: Subtopic Mining and Document Ranking Subtasks	Md Zia Ullah and Masaki Aono	63 - 68
CNU System in NTCIR-11 IMine Task	Wei Song, Wenbin Xu, Lizheng Liu and Hanshi Wang	69 - 73
The KLE's Subtopic Mining System for the NTCIR-11 IMine Task	Se-Jong Kim, Jaehun Shin and Jong-Hyeok Lee	74 - 79
Udel @ NTCIR-11 IMine Track	Ashraf Bah, Ben Carterette and Praveen Chandar	80 - 83
InteractiveMediaMINE at the NTCIR-11 IMine Search Task	Shohei Mine, Takuma Matsumoto, Tomofumi Yoshida, Takuya Shinohara and Daisuke Kitayama	84 - 87

Math-2

NTCIR-11 Math-2 Task Overview	Akiko Aizawa, Michael Kohlhase, Iadh Ounis and Moritz Schubotz	88 - 98
ICST Math Retrieval System for NTCIR-11 Math-2 Task	Liangcai Gao, Yuehan Wang, Leipeng Hao and Zhi Tang	99 - 102
QUALIBETA at the NTCIR-11 Math 2 Task: An Attempt to Query Math Collections	José María González Pinto, Simon Barthel and Wolf-Tilo Balke	103 - 107
Evaluation of Similarity-Measure Factors for Formulae Based on the NTCIR-11 Math Task	Moritz Schubotz, Abdou Youssef, Volker Markl, Howard S. Cohl and Jimmy J. Li	108 - 113
MathWebSearch at NTCIR-11	Radu Hambasan, Michael Kohlhase and Corneliu Prodescu	114 - 119
The MCAT Math Retrieval System for NTCIR-11 Math Track	Giovanni Yoko Kristianto, Goran Topić, Florence Ho and Akiko Aizawa	120 - 126
Math Indexer and Searcher under the Hood: History and Development of a Winning Strategy	Michal Růžička, Petr Sojka and Martin Liška	127 - 134
Combining TF-IDF Text Retrieval with an Inverted Index over Symbol Pairs in Math Expressions: The Tangent Math Search Engine at NTCIR 2014	Nidhin Pattaniyil and Richard Zanibbi	135 - 142

TUW-IMP at the NTCIR-11 Math-2	Aldo Lipani, Linda Andersson, Florina Piroi, Mihai Lupu and Allan Hanbury	143 - 146
--------------------------------	---	-----------

MedNLP-2

Overview of the NTCIR-11 MedNLP-2 Task	Eiji Aramaki, Mizuki Morita, Yoshinobu Kano and Tomoko Ohkuma	147 - 154
kyoto: Kyoto University Baseline at the NTCIR-11 MedNLP-2 Task	Tetsuaki Nakamura, Kay Kubo, Shuko Shikata, Mai Miyabe and Eiji Aramaki	155 - 157
HokuMed in NTCIR-11 MedNLP-2: Automatic Extraction of Medical Complaints from Japanese Health Records Using Machine Learning and Rule-based Methods	Magnus Ahltop, Hideyuki Tanushi, Shiho Kitajima, Maria Skeppstedt, Rafal Rzepka and Kenji Araki	158 - 162
BARY at the NTCIR-11 MedNLP-2 Task for Complaints and Diagnosis Recognition	Yusuke Matsubara, Mizuki Morita and Kôiti Hasida	163 - 166
SCT-D3 at the NTCIR-11 MedNLP-2 Task	Akinori Fujino, Jun Suzuki, Tsutomu Hirao, Hisashi Kurasawa and Katsuyoshi Hayashi	167 - 169
NCU IISR System for NTCIR-11 MedNLP-2 Task	Sheng-Wei Chen, Po-Ting Lai, Yi-Lin Tsai, Jay Kuan-Chieh Chung, Sherry Shih-Huan Hsiao and Richard Tzong-Han Tsai	170 - 173
Incorporating Unsupervised Features into CRF based Named Entity Recognition	Yuki Tawara, Mai Omura and Mirai Miura	174 - 177
HCRL at NTCIR-11 MedNLP-2 Task	Osamu Imaichi, Masakazu Fujio, Toshihiko Yanase and Yoshiki Niwa	178 - 179
Preliminary Report of III&CYUT for NTCIR-11 MedNLP-2	Liang-Pu Chen, Hsiang Lun Lin, Yan Shen Lai and Ping-Che Yang	180 - 183
Technical Report of Uni2014 in NTCIR-11 MedNLP-2	Kenta Fukuda	184 - 186
The OKPU System in NTCIR11 MedNLP2: An IR Approach to ICD-10 Code Identification	Genichiro Kikui and Yasuhiro Tajima	187 - 190

A NLP System of DCUMT in NTCIR-11 MedNLP-2: RNN for ICD/Time Entity Recognition and ICD Classification Tasks	Tsuyoshi Okita and Qun Liu	191 - 194
--	----------------------------	-----------

MobileClick

Overview of the NTCIR-11 MobileClick Task	Makoto P. Kato, Matthew Ekstrand-Abueg, Virgil Pavlu, Tetsuya Sakai, Takehiro Yamamoto and Mayu Iwata	195 - 207
Improving iUnit Retrieval with Query Classification and Multi-Aspect iUnit Scoring: The IISR System at NTCIR-11 MobileClick Task	Chia-Tien Chang, Yu-Hsuan Wu, Yi-Lin Tsai and Richard Tzong-Han Tsai	208 - 212
KPNM at the NTCIR-11 MobileClick Task	Dong Zhou, Zhao Wang, Ziyi Zeng and Tuo Peng	213 - 215
Udel @ NTCIR-11 MobileClick Track	Ashraf Bah Rabiou and Ben Carterette	216 - 218
Description of the NTOU MobileClick System at NTCIR-11	Chi-Ting Liu and Chuan-Jie Lin	219 - 222

RITE-VAL

Overview of the NTCIR-11 Recognizing Inference in Text and Validation (RITE-VAL) Task	Suguru Matsuyoshi, Yusuke Miyao, Tomohide Shibata, Chuan-Jie Lin, Cheng-Wei Shih, Yotaro Watanabe and Teruko Mitamura	223 - 232
III&CYUT Chinese Textual Entailment Recognition System for NTCIR-11 RITE-VAL	Shih-Hung Wu, Li-Jen Hsu, Hua-Wei Lin, Pei-Kai Liao, Liang-Pu Chen and Tsun Ku	233 - 239
Recognizing Textual Entailment Using Multiple Features and Filters	Yongmei Tan, Minda Wang, Xiaohui Wang and Xiaojie Wang	240 - 243
WUST at NTCIR-11 RITE-VAL System Validation Task	Maofu Liu, Yue Wang, Limin Wang and Huijun Hu	244 - 248
NUL System at NTCIR RITE-VAL Tasks	Ai Ishii, Hiroshi Miyashita, Mio Kobayashi and Chikara Hoshino	249 - 254

KSU Team's System and Experience at the NTCIR-11 RITE-VAL Task	Tasuku Kimura and Hisashi Miyamori	255 - 261
A Surface-Similarity Based Two-Step Classifier for RITE-VAL	Shohei Hattori and Satoshi Sato	262 - 267
KitAi-VAL: Textual Entailment Recognition System for NTCIR-11 RITE-VAL	Ayaka Morimoto, Kenta Kurashima, Yo Tokunaga and Kazutaka Shimada	268 - 271
KNDTE: A System for Textual Entailment and Fact Validation Tasks at the NTCIR-11 RITE-VAL	Tao-Hsing Chang, Shih-Kuei Kao, Yen-Wen Lin, Li-Jia Wei and Chung-Yin Tsai	272 - 277
Recognizing Textual Entailment Using Lexical, Syntactical, and Semantic Information	Yann-Huei Lee, Shafqat Virk and Lun-Wei Ku	278 - 283
Discriminating between Relevant and Irrelevant Text for Fact Validation	Mirai Miura, Hiroki Ouchi, Mai Omura, Mayo Yamasaki and Akifumi Yoshimoto	284 - 287
NWNU Minimum Information Recognizing Entailment System for NTCIR-11 RITE-3 Task	Zhichang Zhang, Dongren Yao, Longlong Mao and Songyi Chen	288 - 291
Experiments for NTCIR-11 RITE-VAL Task at Shibaura Institute of Technology	Toru Sugimoto, Toshiki Mizukoshi and Ryosuke Masuda	292 - 294
Answering Yes-No Questions by Keyword Distribution: KJP System at NTCIR-11 RITEVal Task	Yoshinobu Kano	295 - 297
Yamraj: Binary-class and Multi-class Based Textual Entailment System for Japanese (JA) and Chinese Simplified (CS)	Partha Pakray	298 - 303
Description of the NTOU RITE-VAL System at NTCIR-11	Chuan-Jie Lin, Chi-Ting Liu and Yu-Cheng Tu	304 - 308
The WHUTE System in NTCIR-11 RITE-VAL Task	Han Ren, Hongmiao Wu, Xiwen Tan, Pengyuan Wang, Donghong Ji and Jing Wan	309 - 316
BnO at the NTCIR-11 English Fact Validation Task	Pascual Martínez-Gómez, Ran Tian and Yusuke Miyao	317 - 320
MCU at NTCIR: Chinese Fact Validation via SVM Cotext Ranking	Yu-Chieh Wu, Tzu-Yu Liu, Yue-Shi Lee and Jie-Chi Yang	321 - 326
NAK Team's System for Recognizing Textual Entailment at the NTCIR-11 RITE-VAL Task	Genki Teranaka, Masahiko Sunohara and Hiroaki Saito	327 - 331

MIG at NTCIR-11: Using Lexical, Syntactic, and Semantic Features for the RITE-VAL Tasks	Po-Cheng Lin, Shu Yu Lin, Chih Kai Haung and Chao-Lin Liu	332 - 336
IMTKU Textual Entailment System for Recognizing Inference in Text at NTCIR-11 RITE-VAL	Min-Yuh Day, Ya-Jung Wang, Che-Wei Hsu, En-Chun Tu, Shang-Yu Wu, Huai-Wen Hsu, Yu-An Lin, Yu-Hsuan Tai and Cheng-Chia Tsai	337 - 343
KTU System for NTCIR-11 RITE-VAL Task	Tomohide Shibata	344 - 349

SpokenQuery&Doc

Overview of the NTCIR-11 SpokenQuery&Doc Task	Tomoyosi Akiba, Hiromitsu Nishizaki, Hiroaki Nanjo and Gareth J. F. Jones	350 - 364
Spoken Document Retrieval Experiments for SpokenQuery&Doc at Ryukoku University (RYSdT)	Hiroaki Nanjo, Takehiko Yoshimi, Sho Maeda and Tomohiro Nishio	365 - 370
Spoken Term Detection and Spoken Content Retrieval: Evaluations on NTCIR 11 SpokenQuery&Doc Task	Sz-Rung Shiang, Po-Wei Chou and Lang-Chi Yu	371 - 375
DCU at the NTCIR-11 SpokenQuery&Doc Task	David N. Racca and Gareth J.F. Jones	376 - 383
An IWAPU STD System for OOV Query Terms and Spoken Queries	Jinki Takahashi, Takumi Hashimoto, Ryota Kon'no, Shota Sugawara, Kazuki Ouchi, Satoshi Oshima, Takahiro Akyu and Yoshiaki Itoh	384 - 389
STD Method Based on Hash Function for NTCIR11 SpokenQuery&Doc Task	Satoru Tsuge, Norihide Kitaoka, Kazuya Takeda and Kenji Kita	390 - 394
Segmented Spoken Document Retrieval Using Word Co-occurrence Information	Kensuke Hara, Hiroaki Taguchi, Koudai Nakajima, Masanori Takehara, Satoshi Tamura and Satoru Hayamizu	395 - 401
Combination of DTW-based and CRF-based Spoken Term Detection on the NTCIR-11 SpokenQuery&Doc SQ-STD Subtask	Hiromitsu Nishizaki, Naoki Sawada, Satoshi Natori, Kentaro Domoto and Takehito Utsuro	402 - 408

Utilizing Confusion Network in the STD with Suffix Array and Its Evaluation on the NTCIR-11 SpokenQuery & Doc SQ-STD Task	Kouichi Katsurada, Genki Ishihara, Kheang Seng, Yurie Iribe and Tsuneo Nitta	409	-	412
Combining Subword and State-level Dissimilarity Measures for Improved Spoken Term Detection in NTCIR-11 SpokenQuery&Doc Task	Mitsuaki Makino and Atsuhiko Kai	413	-	418
Sopoken Term Detection Based on a Syllable N-gram Index at the NTCIR-11 SpokenQuery&Doc Task	Nagisa Sakamoto, Kazumasa Yamamoto and Seiichi Nakagawa	419	-	424
STD Score Combination with Acoustic Likelihood and Robust SCR Models for False Positives: Experiments at NTCIR-11 SpokenQuery&Doc	Yusuke Takada, Sho Kawasaki, Hiroshi Oshima, Hiroshi Kawatani and Tomoyoshi Akiba	425	-	428

Temporalia

Overview of NTCIR-11 Temporal Information Access (Temporalia) Task	Hideo Joho, Adam Jatowt, Roi Blanco, Hajime Naka and Shuhei Yamamoto	429	-	437
Using Machine Learning to Predict Temporal Orientation of Search Engines' Queries in the Temporalia Challenge	Michele Filannino and Goran Nenadic	438	-	442
MPI-INF at the NTCIR-11 Temporal Query Classification Task	Robin Burghartz and Klaus Berberich	443	-	450
A Logistic Regression Approach for NTCIR-11 Temporalia	Ray Larson	451	-	455
Andd7 @ NTCIR-11 Temporal Information Access Task	Abhishek Shah, Dharak Shah and Prasenjit Majumder	456	-	460
TUTA1 at the NTCIR-11 Temporalia Task	Hai-Tao Yu, Xin Kang and Fujii Ren	461	-	467
HITSZ-ICRC at NTCIR-11 Temporalia Task	Yongshuai Hou, Cong Tan, Jun Xu, Youcheng Pan, Qingcai Chen and Xiaolong Wang	468	-	473
OKSAT at NTCIR-11 Temporalia: Plural Sets of Search Terms for a Topic	Takashi Sato and Shingo Aoki	474	-	477
HULTECH at the NTCIR-11 Temporalia Task: Ensemble Learning for Temporal Query Intent Classification	Mohammed Hasanuzzaman, Gaël Dias and Stéphane Ferrari	478	-	482

RecipeSearch

Overview of the NTCIR-11 Cooking Recipe Search Task	Michiko Yasukawa, Fernando Diaz, Gregory Druck and Nobu Tsukada	483	-	496
OPU at NTCIR-11 RecipeSearch: Japanese Recipe Pairing by Naïve Bayes Estimation with Names of Ingredients	Yasuhiro Tajima, Genichiro Kikui, Megumi Kubota and Rikako Inoue	497	-	498
OKSAT at NTCIR-11 RecipeSearch: Categorization and Expansion of Search Terms in Topics	Takashi Sato, Shingo Aoki and Yuta Morishita	499	-	502
Hiroshima City University at NTCIR-11 Cooking Recipe Search Task	Hidetsugu Nanba	503	-	507
Gunma University, Kiryu University, and RMIT University at the NTCIR-11 Cooking Recipe Search Task	Michiko Yasukawa, Hiroji Ishii and Falk Scholer	508	-	517

QALab

Overview of the NTCIR-11 QA-Lab Task	Hideyuki Shibuki, Kotaro Sakamoto, Yoshinobu Kano, Teruko Mitamura, Madoka Ishioroshi, Kelly Y. Itakura, Di Wang, Tatsunori Mori and Noriko Kando	518	-	529
Solving History Exam by Keyword Distribution: KJP System at NTCIR-11 QALab Task	Yoshinobu Kano	530	-	531
Forst: Question Answering System Using Basic Element at NTCIR-11 QA-Lab Task	Kotaro Sakamoto, Hyogo Matsui, Eisuke Matsunaga, Takahisa Jin, Hideyuki Shibuki, Tatsunori Mori, Madoka Ishioroshi and Noriko Kando	532	-	536
FLL: Answering World History Exams by Utilizing Search Results and Virtual Examples	Takuya Makino, Seiji Okura, Seiji Okajima, Shuangyong Song and Hiroko Suzuki	537	-	541
CMU Multiple-choice Question Answering System at NTCIR-11 QA-Lab	Di Wang, Leonid Boytsov, Jun Araki, Alkesh Patel, Jeff Gee, Zhengzhong Liu, Eric Nyberg and Teruko Mitamura	542	-	549

Using Time Periods Comparison for Eliminating Chronological Discrepancies between Question and Answer Candidates at QALab NTCIR11 Task	Yasutomo Kimura, Fumitoshi Ashihara, Arnaud Jordan, Keiichi Takamaru, Yuzu Uchida, Hokuto Ototake, Hideyuki Shibuki, Michal Ptaszynski, Rafal Rzepka, Fumito Masui and Kenji Araki	550	-	555
NUL System at QALab Tasks	Hiroshi Miyashita, Ai Ishii, Mio Kobayashi and Chikara Hoshino	556	-	558
sJanta: An Open Domain Question Answering System	Md. Arafat Rahman and Md-Mizanur Rahoman	559	-	565
A Feature-based Classification Technique for Answering Multi-choice World History Questions: FRDC_QA at NTCIR-11 QA-Lab Task	Shuangyong Song, Yao Meng, Zhongguang Zheng and Jun Sun	566	-	570
The Question Answering System of DCUMT in NTCIR-11 QALab	Tsuyoshi Okita and Qun Liu	571		578