



Goa University
Goa Business School

Report on

**15th Forum for Information Retrieval Evaluation 2023 -
(15th to 18th December 2023)**

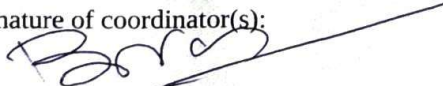
1. Title of the Event/Activity/program	15th Forum for Information Retrieval Evaluation 2023 - (FIRE-2023)
2. Date and Time	15th to 18th December 2023
3. Mode of conduct	Physical
4. School	Goa Business School, Goa University
5. Collaborating Agency/School/Directorate	Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat (https://www.daiict.ac.in/) and
6. Detail of the Resource Person	<p>Keynote addresses:</p> <ul style="list-style-type: none">• How (un)important is complex NLP in transformers for text ranking? by Jaap Kamps• Evaluation Challenges and Current Limit in IR and NLP: Experiences at the CLEF SimpleText and JOKER Tracks by Liana Ermakova• Broken Telephone by Evangelos Kanoulas• Disinformation and relevance in search: Open Issues and Challenges by Gabreilla Pasi• Quantum Computing for Information Access: Is It That Scary? by Nicola Ferro• Experimentation and Reproducibility in Information Retrieval: Then and Now by Iadh Ounis <p>Organising Committee</p> <ul style="list-style-type: none">• <i>Overall Co-ordinator</i> Prasenjit Majumder, DA-IICT, Gandhinagar, India & TCG-CREST, Kolkata, India• <i>Organizing Co-ordinator</i> Jyoti D Pawar, Goa University, India• <i>Local Organization Co-ordinator</i> Ramrao S. Wagh, Goa University, India




	<ul style="list-style-type: none"> • <i>Overall Track Co-ordinators</i> Kripabandhu Ghosh, IISER Kolkata, India Thomas Mandl, Universitat Hildesheim, Germany • <i>Conference Track Co-ordinator</i> Debasis Ganguly, University of Glasgow, UK • <i>Doctoral Consortium Co-ordinator</i> Srijoni Majumdar, University of Leeds, UK • <i>Industry Day Co-ordinator</i> Bhaskar Mitra, Microsoft Research, Canada • <i>Tutorial Co-ordinator</i> Parth Gupta, Amazon • <i>Sponsorship Co-ordinator</i> Pabitra Mitra, IIT Kharagpur, Indi
7. Number of Faculty attended/participated	10+ Faculty members
8. Number of Student attended / participated	150+ Students and Research Scholars 05+ Volunteers
9. No. of external students/faculty/other participants	5+ personnels from Industry
10. The objectives of the Program/activity/event	<ol style="list-style-type: none"> 1. This conference was conducted with an aim of building a South Asian counterpart for TREC, CLEF, and NTCIR, and has since evolved continuously to support and encourage research within the information retrieval community. 2. To meet the new challenges in multilingual information access and frameworks for large-scale evaluation of information retrieval methods, primarily text
11. Description of the Program/activity/event	<p>The Forum for Information Retrieval and Evaluation (FIRE) 2023 was held in Goa University, Goa, India from 15th to 18th December 2023. This was the 15th edition of FIRE. The peer-reviewed conference track at the Forum has now continued for the ninth time this year. This year this forum has broadened the scope of the peer reviewed conference track beyond that of information retrieval to include more general topics on text processing, knowledge management and recommender systems. The conference track in FIRE exhibited a fair overlap with the ACM SIGIR conference (and other IR conferences) only, this year we expected to extend this overlap with the research topics of other conferences such as ACL, AAAI etc.</p> <p>Moreover, this year FIRE 2023 accommodated the provision of submitting papers with a variable content length, ranging from 2 to 9 pages (without the bibliography), extended abstracts, and resource & demo paper. The rationale behind this decision was to make it convenient for the authors to possibly recycle content from other conferences without spending significant efforts in compressing or extending the content to fit a given page limit. This year FIRE has started the doctoral consortium to enable an interaction between PhD students and senior researchers which provides a fillip to the research of the PhD students. Further FIRE has started the Industry track which acted as a bridge between academia and industry and provided an exposure to the participants on the research problems of the</p>



	<p>industry. Finally, FIRE has also started the Tutorial track to provide the participants with access to understanding cutting edge concepts in the field of IR and NLP</p> <p>A special workshop on “Portuguese presence in Goa in digital perspective” by SofiaRibeiro and Paulo Quaresma, Évora University, Portugal is organized on 16/12/2023 from 2 pm to 4 pm at Chemistry Auditorium, SCS, Block E, Goa University with following aims. Historical research on the Portuguese presence in India and in Goa, as the capital state of the Portuguese Estado da Índia has been renewed in recent years. Issues concerning its administration, hybrid religious and social dynamics, and economic specificities have been approached in an increasingly decolonized perspective, considering processes of violence and negotiation or the mandatory political, economic, and social relationships between the colonizers and the people, States and institutions that already existed before the arrival of Vasco da Gama to Calicut in 1498. This new historical perspective which seeks to escape the traditional eurocentrism has enabled to comprehend the uniqueness of Goa society in India In the present, fostered within a multi-secular network of relational ties between different visions of the world, between Portugal and India.</p> <p>This year the conference track had 23 submissions – 16 regular papers, 4 resource & demo papers, 3 extended abstracts. Based on the reviews, we have accepted 7 regular papers, 3 resource & demo papers and 1 extended abstract to be presented during the conference track, which makes the overall acceptance rate around 48%. The doctoral consortium had 9 submissions, industry day track had 3 submissions and tutorial track had 4 submissions. In all these tracks all the submissions were accepted and thus had an overall acceptance rate of 100%.</p> <p>The prime sponsors for FIRE2023 were ACM SIGIR, Department of Higher Education - Govt. Of Goa and AI4ICPS – IIT Kharagpur while ACM ICPS has published the proceedings.</p>
<p>12. Benefit/Key outcomes of the Program/activity/event</p>	<ul style="list-style-type: none"> • This conference had participants from across the globe having research interests in the fields of NLP, AI, ML, IR, IE, etc. • This international conference helped students, researchers, faculty, and language and linguistic professionals (especially locals and Konkani language enthusiasts in Goa) to gain knowledge and insights into the research areas and latest trends in the areas of AI, ML, IR, IE, and NLP • This conference benefitted students and faculty members of Goa University and other affiliated colleges as well.
<p>13. Enclosures with report</p>	<p>Website Screenshot; Photos, Attendance sheets, Link to proceedings of FIRE 2023 (https://dl.acm.org/doi/proceedings/10.1145/3632754)</p>

Name with Signature of coordinator(s):
 Ramrao Wagh 
 Designation: Associate Professor, CST, GBS

Signature : 
 Dean
 Seal of the School



- 2015 Workshop
 - 2014
 - 2012/13
 - 2010/11
 - 2008 Issue 1
 - 2008 Issue 2
 - FIRE
 - 2022
 - 2021
 - 2020
 - 2019
 - 2018
 - 2017
 - 2016
 - 2015
 - 2014
 - 2013
 - 2012
 - 2011
 - 2010
 - 2008
-

Schedule

All time written are in IST

Day 1 : Friday 15 December

Venue-Theatre Style Lecture Hall 3, Goa Business School, Goa University

- | | |
|--------------|--|
| 8:30 - 9:00 | Registration |
| 9:00 - 9:15 | Opening Remarks |
| 9:15 - 10:00 | Keynote address: <ul style="list-style-type: none"> • How (un)important is complex NLP in transformers for text ranking? - Jaap Kamps |
| 10:00-11:45 | Track overview (~15 minutes each)
Session Chair: Kripabandhu Ghosh <ul style="list-style-type: none"> • Artificial Intelligence on Social Media (AISoMe) - Kripabandhu Ghosh • Cross-Lingual Information Retrieval for African Languages (CIRAL) - Mofetoluwa Adeyemi Tea Break • Uncovering Truth in Social Media through Claim Detection and Identification of Claim Spans (CLAIMSCAN) - Megha Sundriyal • Hate Speech and Offensive Content Identification in English and Indo-Aryan Languages (HASOC) - TBD • Information Retrieval in Software Engineering (IRSE) - Srijoni Majumdar |
| 11:45-12:30 | Keynote address: <ul style="list-style-type: none"> • Evaluation Challenges and Current Limits in IR and NLP: Experiences at the CLEF SimpleText and JOKER Tracks: Liana Ermakova |
| 12:30-13:15 | Lunch Break & Doctoral Consortium Poster Presentations |

13:15-14:30

Track overview (~15 minutes each)
Session Chair: Kripabandhu Ghosh

- Scarcasm Identification of Dravidian Languages (Malayalam and Tamil) in DravidianCodeMix 2022 (DravidianCodeMix) - Kishore Kumar Ponnusamy
- Word-level Language Identification in Code-mixed Tulu Texts (CoLI-Tunglish) - Asha Hegde
- Indian Language Summarization (ILSUM) - Parth Mehta
- Machine Translation for Indian Languages (MTIL) - Surupendu Gangopadhyay

14:30-15:00

Conference Track : Resource and Demo Paper (~10 minutes each)
Session Chair: Debasis Ganguly

- Financial Argument Analysis in Bengali - Rima Roy / Sohom Ghosh
- L3Cube-MahaSocialNER: A Social Media based Marathi Named Entity Recognition Dataset and BERT models - TBD
- Helping Hands - An AI based Real Time System for Effective Flood Relief Operations in Indian Cities - TBD

15:00-15:15

Tea Break

15:15-16:30

Conference Track : Regular Paper (~15 minutes each)
Session Chair: Debasis Ganguly

- The Mask One At a Time Framework for Detecting the Relationship between Financial Entities - Sachin Umrao / Sohom Ghosh
- Harnessing the Power of Prompt-based Techniques for Generating School-Level Questions using Large Language Models - Subhankar Maity
- CricGPT: A GPT-aided Question-Answering system for Cricket - Kripabandhu Ghosh
- Keyword Driven Language-Independent Low-Resource Graph-Based Automatic Text Summarization of Konkani Texts - Chaitali More
- Are we describing the same sound? An analysis of word embedding spaces of expressive piano performance - Silvan David Peter

17:00-18:00

Steering Committee Meeting

19:00

Banquet

Day 2 : Saturday 16 December

Venue-Theatre Style Lecture Hall 3, Goa Business School, Goa University

9:00-9:45 **Keynote address:**

- Broken Telephone: Evangelos Kanoulas

9:45-10:45 **Information Retrieval in Software Engineering (IRSE) Presentation (~5 minutes each)**

- Software Metadata Classification based on Generative Artificial Intelligence- Seetharam Killivalavan
- Source Code Comment Classification using Naive Bayes and Support Vector Machine- Raj Shah
- A ML-LLM pairing for better code comment classification- Hanna Abi Akl (Online)
- Binary Classification of Source Code Comments using Machine Learning Models- Lisa Sarkar
- Source Code Comment Classification using machine learning algorithms- Trisha Datta
- A study of the impact of generative AI-based data augmentation on software metadata classification - Tripti Kumari
- Leveraging Language Models for Code Comment Classification- Jagrat T Patel
- On the Impact of Synthetic Data on Code Comment Usefulness Prediction - Vishesh Agarwal
- Software Metadata Classification based on Generative Artificial Intelligence- Seetharam Killivalavan

Tea Break

11:00-
11:45

Cross-Lingual Information Retrieval for African Languages (CIRAL) Presentation (~5 minutes each)

Session Chair: TBD

- Extending Translate-Train for ColBERT-X to African Language CLIR-Eugene Yang

Uncovering Truth in Social Media through Claim Detection and Identification of Claim Spans (CLAIMSCAN) (~5 minutes each)

Session Chair: Megha Sundriyal

11:45-
12:30

Keynote address:

- Disinformation and relevance in search: Open Issues and Challenges: Gabriella Pasi

12:30-
13:15

Lunch Break & Doctoral Consortium Poster Presentations

13:15-
14:00

Word-level Language Identification in Code-mixed Tulu Texts (CoLI-Tunglish) Presentation (~5 minutes each)

Session Chair: H. L. Shashirekha

- Word-Level Language Identification of Code-Mixed Tulu-English Data - Poorvi Shetty (Online)
- Word-level Language Identification in Code-mixed Tulu Texts(CoLI-Tunglish) - Asha Hegde
- Advancing Language Identification in Code-Mixed Tulu Texts:Harnessing Deep Learning Techniques -Anshika Mishra
- BFCAl at CoLI-Tunglish@FIRE 2023: Machine Learning Based Model for Word-level Language Identification in Code-mixed Tulu Texts - Hamada Nayel (Online)

14:00-
14:45

Scarcasm Identification of Dravidian Languages (Malayalam and Tamil) in DravidianCodeMix 2023 (DravidianCodeMix) Presentation (~5 minutes each)

Session Chair: B Bharathi

- Sarcasm Identification in Dravidian Languages Tamil and Malayalam-Poorvi Shetty (Online)
- Cross-Linguistic Sarcasm Detection in Tamil and Malayalam: A Multilingual Approach-Dhanya Krishnan (Online)
- Identifying the type of sarcasm in Dravidian Languages using Deep-Learning Models-Ramya Sivakumar (Online)
- Learning Models with Text Augmentation for Sarcasm Detection in Malayalam and Tamil Code-mixed Texts- Asha Hegde
- A Few Shot Learning to Detect Sarcasm in Tamil and Malayalam Code Mixed Data-Shanmitha Thirumoorthy(Online)
- Sarcasm Detection in Dravidian Languages using Transformer Models-Madhumitha M(Online)
- Sarcasm Identification In Codemix Dravidian Languages-Kanisha V (Online)
- Sarcasm Identification of Dravidian Languages (Malayalam and Tamil) - Indirakanth V (Online)
- Sarcasm Detection in Tamil and Malayalam Dravidian Code-Mixed Tex- Anshika Mishra

Workshop:

Portuguese presence in Goa in digital perspective (Parallel Session)

- Project Monsoon: how to use digital techniques to understand the Portuguese presence in Asia Ana Sofia Ribeiro (CIDEHUS – Évora University)
- Digital Humanities in the understanding of Goan Vernacular Architecture Victor Mestre and Sofia Aleixo (Escola de Artes – Évora University)

14:45-
15:00

Tea Break

15:00-
15:45

Industry Day Keynote address:
Session Chair: Parth Mehta

Coffee break

- Saving Languages with AI: The Challenge of Fair and Inclusive Large Language Models - Kalika Bali

15:20

Roundtable – using digital techniques to remember Goa history

- Delfim Correia (Instituto Camões, Goa University)
- Goa Historical Archive
- Paulo Quaresma (Évora University)

15:45-
16:15

Industry Track Paper (~15 min each)
Session Chair: Parth Mehta

- Future of Workplace Conversational AI-driven Personal Assistants: Promises and Perils - Koustuv Saha
- On Gradient Boosted Decision Trees and Neural Rankers: A Case-Study on Short-Video Recommendations at ShareChat - Olivier Jeunen

Day 3 : Sunday 17 December

Venue-Theatre Style Lecture Hall 3, Goa Business School, Goa University

9:00-9:45

Keynote address:

- Quantum Computing for Information Access: Is It That Scary?: Nicola Ferro

9:45-10:45

Hate Speech and Offensive Content Identification in English and Indo-Aryan Languages (HASOC) Presentation (~5 minutes each)

Session Chair: Sandip Modha

- Hate and Offensive Content Identification in Indo-Aryan Languages using Transformer-based Models- Ojo Olumide Ebenezer (Online)
- Multilingual Hate Speech and Offensive Language Detection of Low Resource Languages -Abhinav Reddy Gutha
- Harnessing Pre-Trained Sentence Transformers for Offensive Language Detection in Indian Languages- Ananya Joshi (Online)
- Hate Speech Classification for Sinhalese and Gujarati-Madhuri Sawant
- Addressing Hate Speech: ATLANTIS for Efficient Hate Span Detection-Yashraj Poddar
- Crossing Borders: Multilingual Hate Speech Detection-Abhishek Dhaka
- Hate Speech Detection in Low Resource Indo-Aryan Languages-Sougata Saha
- Hate Speech and Offensive Content Detection in Indo-Aryan Languages: A Battle of LSTM and Transformers.-Nikhil Narayan
- Sinhala and Gujarati Hate Speech Detection-Krithik Sathya M
- Enhancing Hate Speech Detection in Sinhala and Gujarati: Leveraging BERT Models and Linguistic Constraints-GNANA SAI G (Online)
- Bengali Hate Speech Detection Using Deep Learning Technique-Chandan Senapati (Online)
- Taming Toxicity: Learning Models for Hate Speech and Offensive Language Detection in Social Media Text-Sharal Coelho

10:45-11:00

Tea Break

11:00-11:45

Indian Language Summarization (ILSUM) Presentation (~5 minutes each)
Session Chair: Sandip Modha

- Prompted Zero-Shot Multi-label Classification of Factual Incorrectness in Machine-Generated Summaries- Aniket Deroy
- Named Entity-Aware Abstractive Text Summarization for Hindi Language-Saumay Gupta
- Advancing Human-Like Summarization: Approaches to Text Summarization-Saliq Gowhar(Online)
- Text Summarization for Indian Languages: Finetuned Transformer Model Application-Ilanchezhiyan V (Online)

Machine Translation for Indian Languages (MTIL) Presentation (~5 minutes each)

- Hindi-Odia Machine Translation System-Rakesh Chandra Balabantaray
- Bidirectional Hindi-Punjabi Machine Translation-Karunesh Kumar Arora
- Fine tuning based Domain Adaptation for Machine Translation of Low Resource Indic Languages- Harpreet Singh Anand (Online)

11:45-12:30

Keynote address:

- Experimentation and Reproducibility in Information Retrieval: Then and Now: Iadh Ounis

12:30-13:15

Lunch Break

13:15-14:15

Artificial Intelligence on Social Media (AISoMe) Presentation (~5 minutes each) Session Chair: Kripabandhu Ghosh

- BERT-Powered Multi-label Classifier: Analyzing Public COVID Vaccination Discourse - Ranjit Patro
- Analyzing crowd-sourced vaccine data : Uncovering Concerns and Insights- Lakshmi S Gopal
- Multi-Label Classification of COVID-Tweets Using Large Language Models- Aniket Deroy
- Multi-label Classification of Covid-19 Vaccine Tweet- Sumit as
- VaxTweetClassifier: BERT for Dealing with Vaccination Tweets-Shankha Shubhra Das (Online)
- VaxVedict : A roBERTa based multilabel classifier-Aditya Onkar Patil(Online)
- VaxiBERT: A BERT-Based Classifier for Vaccine Tweets with Multi-Label Annotations - Shivangi Bithel (Online)
- Tweet Classifier: Advancements in Multi-Label Analysis - Swastik Anupam (Online)

14:15-15:00

Conference Track : Regular Paper (~15 minutes each) Session Chair: Debasis Ganguly

- A Comparative Analysis of Retrieval and PageRank Measures - TBDs
- Expressivity-aware Music Performance Retrieval using Mid-level Perceptual Features and Emotion Word Embeddings - Silvan David Peter

Conference Track : Extended Abstract (~10 minutes each)

- Fact-based Court Judgment Prediction - Shubham Kumar Nigam

15:00-15:15

Tea Break

15:00-16:00

Industry Day Keynote address

- Search, Recommenders and Co-pilots: Evolution of Evaluation Strategies in the Industry - Rishabh Mehrotra

16:00-16:15

Industry Track Paper (~15 min each)

- Recommendation Systems in the Era of LLMs - Ipsita Mohanty

Track 1

9:30-11:00 **Tutorial 1:** Unleashing the Power of Large Language Models: A Hands-On Tutorial - TBD

11:15-12:45 **Tutorial 3:** Recent Advancements in Unbiased Learning to Rank - Shashank Gupta, Philipp Hager, and Harrie Oosterhuis

Track 2

Tutorial 2: Explainability of Text Processing and Retrieval Methods - TBD

Tutorial 4: AI and Data-driven Approaches for Agriculture - TBD

Workshop:

A hands-on workshop by NVIDIA (Live online)

• Sponsors



ACM SIGIR

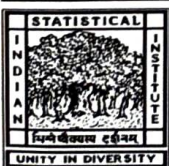
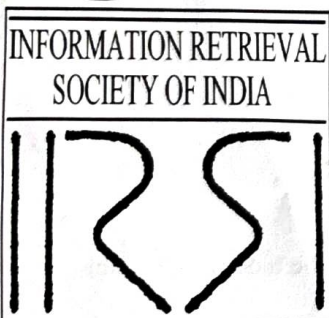
• Publications

To be announced soon.

FIRE 2023, Goa Business School, Goa University, Panjim

Copyright © 2023 IRSI

All rights reserved



14,869 Visitors

Google +

FIRE 2023

Proceedings of the 15th annual meeting of the
Forum for Information Retrieval Evaluation

Goa University, Panjim, India, December 15-18, 2023

Edited By: Debasis Ganguly
 Srijoni Majumdar
 Bhaskar Mitra
 Parth Gupta
 Surupendu Gangopadhyay
 Prasenjit Majumder

Invited Papers, Regular Papers, Resource & Demo Papers, Extended
Abstracts, Doctoral Consortium, Industry Day and Tutorial Proposals

ACM International Conference Proceedings Series



The Association for Computing Machinery
1601 Broadway, 10th Floor
New York, New York 10019, USA

ACM COPYRIGHT NOTICE. Copyright © 2023 by the Association for Computing Machinery, Inc. Permission to make digital or hard copies of part or all of this work for personal or classroom use is granted without fee provided that copies are not made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. Copyrights for components of this work owned by others than ACM must be honored. Abstracting with credit is permitted. To copy otherwise, to republish, to post on servers, or to redistribute to lists, requires prior specific permission and/or a fee. Request permissions from Publications Dept., ACM, Inc., fax +1 (212) 869-0481, or permissions@acm.org.

For other copying of articles that carry a code at the bottom of the first or last page, copying is permitted provided that the per-copy fee indicated in the code is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, +1-978-750-8400, +1-978-750-4470 (fax).

ACM ISBN: 979-8-4007-1632-4

Contents

FIRE 2023 Organization

Invited Papers

Overview of the FIRE 2023 Track: Artificial Intelligence on Social Media (AISoMe)	1-3
Soham Poddar, Moumita Basu, Kripabandhu Ghosh, Saptarshi Ghosh	
CIRAL at FIRE 2023: Cross-Lingual Information Retrieval for African Languages	4-6
Mofetoluwa Adeyemi, Akintunde Oladipo, Xinyu Zhang, David Alfonso-Hermelo, Mehdi Rezagholizadeh, Boxing Chen, Jimmy Lin	
Overview of the CLAIMSCAN-2023: Uncovering Truth in Social Media through Claim Detection and Identification of Claim Spans	7-9
Megha Sundriyal, Md Shad Akhtar, Tanmoy Chakraborty	
Overview of the HASOC Subtracks at FIRE 2023: Detection of Hate Spans and Conversational Hate Speech	10-12
Shrey Satapara, Sarah Masud, Hiren Madhu, Mohammad Aflah Khan, Md. Shad Akhtar, Tanmoy Chakraborty, Sandip Modha, Thomas Mandl	
Overview of the HASOC Subtracks at FIRE 2023: Hate Speech and Offensive Content Identification in Assamese, Bengali, Bodo, Gujarati and Sinhala	13-15
Tharindu Ranasinghe, Koyel Ghosh, Aditya Shankar Pal, Apurbalal Senapati, Alphaeus Eric Dmonte, Marcos Zampieri, Sandip Modha, Shrey Satapara	

Efficiency of Large Language Models to Scale up Ground Truth: Overview of the IRSE Track at Forum for Information Retrieval 2023	16-18
Soumen Paul, Srijoni Majumdar, Ayan Bandyopadhyay, Bhargav Dave, Samiran Chattopadhyay, Partha Pratim Das, Paul D Clough, Prasenjit Majumder	
<hr/>	
Overview of MTIL Track at FIRE 2023: Machine Translation for Indian Languages	19-21
Surupendu Gangopadhyay, Prasenjit Majumder, Baban Gain, Ramakrishna Appicharla, Asif Ekbal, Arafat Ahsan, Dipti Sharma	
<hr/>	
Findings of Shared Task on Sarcasm Identification in Code-Mixed Dravidian Languages	22-24
Sripriya N, Thenmozhi Durairaj, Nandhini K, Bharathi B, Kishore Kumar Ponnusamy, Charmathi Rajkumar, Prasanna Kumar Kumaresan, Rahul Ponnusamy, Subalalitha CN, Bharathi Raja Chakravarthi	
<hr/>	
CoLI@FIRE2023: Findings of Word-level Language Identification in Code-mixed Tulu Text	25-26
Asha Hegde, F. Balouchzahi, Sharal Coelho, H.L. Shashirekha, Hamada A. Nayel, Sabur Butt	
<hr/>	
Indian Language Summarization at FIRE 2023	27-29
Shrey Satapara, Parth Mehta, Sandip Modha, Debasis Ganguly	
<hr/>	
Regular Papers	
<hr/>	
Harnessing the Power of Prompt-based Techniques for Generating School-Level Questions using Large Language Models	30-39
Subhankar Maity, Aniket Deroy, Sudeshna Sarkar	
<hr/>	
The Mask One At a Time Framework for Detecting the Relationship between Financial Entities	40-43
Sohom Ghosh, Sachin Umrao, Chung-Chi Chen, Sudip Kumar Naskar	
<hr/>	
CricGPT: A GPT-aided Question-Answering System for Cricket	44-50
Shriyank Tatawat, Kripabandhu Ghosh	
<hr/>	

Keyword Driven Language-Independent Low-Resource Graph-Based Automatic Text Summarization of Konkani Texts Chaitali, More, Jovi, D’Silva	51-57
Are We Describing the Same Sound? An Analysis of Word Embedding Spaces of Expressive Piano Performance Silvan David Peter, Shreyan Chowdhury, Carlos Eduardo Cancino-Chacón, Gerhard Widmer	58-66
A Comparative Analysis of Retrievability and PageRank Measures Aman Sinha, Priyanshu Raj Mall, Dwaipayan Roy, Kripabandhu Ghosh	67-72
Expressivity-aware Music Performance Retrieval using Mid-level Perceptual Features and Emotion Word Embeddings Shreyan Chowdhury, Gerhard Widmer	73-77
Extended Abstracts	
Fact-based Court Judgment Prediction Shubham Kumar Nigam, Aniket Deroy	78-82
Resource and Demo Papers	
Helping Hands – An AI based Real Time System for Effective Flood Relief Operations in Indian Cities Abhay Banerjee, Faizan Ahmed, Sourav Manna, Mayur Mallav Saikia, Moumita Basu, Saptarshi Ghosh	83-87
Financial Argument Analysis in Bengali Rima Roy, Sohom Ghosh, Sudip Kumar Naskar	88-92
L3Cube-MahaSocialNER: A Social Media based Marathi NER Dataset and BERT Models Harsh Chaudhari, Anuja Patil, Dhanashree Lavekar, Pranav Khairnar, Raviraj Joshi	93-100
Doctoral Consortium	
Relative Relation Representation Aware Link Prediction in Heterogeneous Information Network Debasis Maji, Krishanu Mondal, Debaditya Barman	101-104

A Study on the Effect of 2-Approximate Shortest-Path Integration in Extracting Context-Sensitive Dense Structures Ajaharul Hoque, Debaditya Barman, Paramartha Dutta, Subhrangsu Mandal	105-108
Towards Semantic Role Labeling of Legal Documents for Improving NLP/IR Tasks in the Law Domain Subinay Adhikary	109-111
Drug Uniformity and Content Detection for Pharmaceutical Formulations: The Deep Learning Approach Abhishek Patel, Amit Thakkar	112-114
Student Behavior Detection in the Classroom Based on Human-Object Interaction Model Dharmendrasinh Rathod, Amit Thakkar	115-117
Towards Development of an Effective AI-based System for Relevant Comment Generation Tripti Kumari, Ayan Das	118-120
Abstractive Summarization of Scientific Documents: Models and Evaluation Techniques Tohida Rehman, Samiran Chattopadhyay, Debarshi Kumar Sanyal	121-124
A Keyphrase-Centric Search Engine for Scientific Papers Avishek Lahiri, Debarshi Kumar Sanyal, Imon Mukherjee	125-128
A Personal Knowledge Graph for Researchers Prantika Chakraborty, Debarshi Kumar Sanyal	129-132
Industry Day	
Future of Workplace Conversational AI-driven Personal Assistants: Promises and Perils Koustuv Saha, Eshwar Chandrasekharan	133-135
On Gradient Boosted Decision Trees and Neural Rankers: A Case-Study on Short-Video Recommendations at ShareChat Olivier Jeunen, Hitesh Sagtani, Himanshu Doi, Rasul Karimov, Neeti Pokharna, Danish Kalim, Aleksei Ustimenko, Christopher Green, Wenzhe Shi, Rishabh Mehrotra	136-141

Recommendation Systems in the Era of LLMs Ipsita Mohanty	142-144
--	---------

Tutorial Proposals

Recent Advancements in Unbiased Learning to Rank Shashank Gupta, Philipp Hager, Harrie Oosterhuis	145-148
---	---------

Unleashing the Power of Large Language Models: A Hands-On Tutorial Payel Santra, Madhusudan Ghosh, Shrimon Mukherjee, Debasis Ganguly, Partha Basuchowdhuri, Sudip Kumar Naskar	149-152
--	---------

Explainability of Text Processing and Retrieval Methods Avishek Anand, Sourav Saha, Procheta Sen, Mandar Mitra	153-157
--	---------

AI and Data-driven Approaches for Agriculture Manjira Sinha, Tirthankar Dasgupta, Adway Mitra	158-159
---	---------

Preface

The Forum for Information Retrieval and Evaluation (FIRE) 2023 was held in Goa University, Goa, India. This was the 15th edition of FIRE. The peer-reviewed conference track at the Forum has now continued for the ninth time this year. This year we made an attempt to broaden the scope of the peer reviewed conference track beyond that of information retrieval to include more general topics on text processing, knowledge management and recommender systems. The conference track in FIRE exhibited a fair overlap with the ACM SIGIR conference (and other IR conferences) only, this year we expected to extend this overlap with the research topics of other conferences such as ACL, AACL etc.

Moreover, this year we accommodated the provision of submitting papers with a variable content length, ranging from 2 to 9 pages (without the bibliography), extended abstracts, and resource & demo paper. The rationale behind this decision was to make it convenient for the authors to possibly recycle content from other conferences without spending significant efforts in compressing or extending the content to fit a given page limit. This year FIRE has started the doctoral consortium to enable an interaction between PhD students and senior researchers which provides a fillip to the research of the PhD students. Further FIRE has started the Industry track which acted as a bridge between academia and industry and provided an exposure to the participants on the research problems of the industry. Finally, FIRE has also started the Tutorial track to provide the participants with access to understanding cutting edge concepts in the field of IR and NLP

This year the conference track had 23 submissions – 16 regular papers, 4 resource & demo papers, 3 extended abstracts. Based on the reviews, we have accepted 7 regular papers, 3 resource & demo papers and 1 extended abstract to be presented during the conference track, which makes the overall acceptance rate around 48%. The doctoral consortium had 9 submissions, industry day track had 3 submissions and tutorial track had 4 submissions. In all these tracks all the submission were accepted and thus had an overall acceptance rate of 100%.

We, as the organizers, consider ourselves to be very fortunate as many prominent and active researchers who are a part of the SIGIR program committee kindly agreed to review papers of all the tracks in FIRE 2023. We would like to take this opportunity to thank all the reviewers for submitting reviews on time despite their very busy schedule. We hope that the authors found the reviews constructive and helpful.

Finally, a big thanks to our sponsors ACM SIGIR, Department of Higher Education - Govt. Of Goa and AI4ICPS – IIT Kharagpur for sponsoring the event and ACM ICPS for publishing the proceedings. We positively hope to continue this event next year as well.

Debasis Ganguly
Srijoni Majumdar
Bhaskar Mitra
Parth Gupta
Surupendu Gangopadhyay
Prasenjit Majumder

FIRE 2023 Organization

Overall Co-ordinator

Prasenjit Majumder, DA-IICT, Gandhinagar, India & TCG-CREST, Kolkata, India

Overall Track Co-ordinators

Kripabandhu Ghosh, IISER Kolkata, India

Thomas Mandl, Universitat Hildesheim, Germany

Conference Track Co-ordinator

Debasis Ganguly, University of Glasgow, UK

Doctoral Consortium Co-ordinator

Srijoni Majumdar, University of Leeds, UK

Industry Day Co-ordinator

Bhaskar Mitra, Microsoft Research, Canada

Tutorial Co-ordinator

Parth Gupta, Amazon

Organizing Co-ordinator

Jyoti D Pawar, Goa University, India

Local Organization Co-ordinator

Ramrao S. Wagh, Goa University, India

Sponsorship Co-ordinator

Pabitra Mitra, IIT Kharagpur, India

Program Committee for Conference Track

Tanmoy Chakraborty, Indian Institute of Technology Delhi, India

Charles Clarke, University of Waterloo, Canada

Tirthankar Dasgupta, TCS, India

Saptarshi Ghosh, Indian Institute of Technology Kharagpur, India

Mark Hall, The Open University

Allan Hanbury, Vienna University of Technology, Austria

Gareth Jones, Dublin City University, Ireland

Alapan Kuila, Indian Institute of Technology Kharagpur, India

David Lillis, University College Dublin, Ireland

Sean MacAvaney, University of Glasgow, UK

Pabitra Mitra, Indian Institute of Technology Kharagpur, India

Henning Müller, HES-SO, Sierre

Sudip Naskar, Jadavpur University, India

Pavel Pecina, Charles University, Czech Republic

Florina Piroi, TU Wien, Austria
Paulo Quaresma, University of Évora, Portugal
Nitin Ramrakhiyani, TCS Research, India
Paolo Rosso, Technical University of Valencia, Spain
Koustav Rudra, Indian Institute of Technology (ISM) Dhanbad, India
Tulika Saha, University of Manchester, UK
Procheta Sen, University of Liverpool, UK
Arpit Sood, Meta Inc, USA
Efsthathios Stamatatos, University of the Aegean, Greece
Jerome White, Wadhvani Institute for Artificial Intelligence, India

Program Committee for Doctoral Consortium

Paul D Clough, University of Sheffield, UK
Rik Sarkar, University of Edinburgh, UK
Tanwi Mallick, Argonne National Laboratory, USA
Vishesh Aggarwal, Microsoft, Vancouver
Biswajit Paria, Google Research, USA
Shakti Papdeja, Amazon, India
Ananda Das, Synopsys, India
Vivek Gupta, Google, India, co-founder AlgoZenith, India
Ushashi Chaudhuri, University of Illinois Urbana-Champaign, USA
Debarshi Sanyal, IACS, India
Sanjay Ghosh, University of California, San Francisco
Debojyoti Paul, Amazon, India
Gurunath Reddy, Google Fellow, Phillips India
Shashaank Mattur Aswatha, Phillips India
Shubham Patel, Apple inc. USA
Soumabha Bhowmick, Siemens, India
Abhinav Sharma, University of Leeds, UK
Rohit Verma, Intel India
Barsha Mitra, BITS Hyderabad
Soumyadeep Roy, Microsoft India
Abantika Pal, University of California, San Francisco
Subhrangshu Mandal, IIT Indore
Soumen Paul, IIT Kharagpur, India
Arindam Pal, CSIRO, Australia
Kunal Banerjee, Walmart Labs India
Praful Pai, Mathworks, India
Sourav Sinha, Bosch, India
Anirban Das, Amazon UK
Arindam Roy, BITS Pilani, India
Saurabh Thakur, Peak AI, India

Program Committee for Industry Day Track

Nick Craswell, Microsoft, USA

Debanjana Kar, IBM Research, India

Tracy King, Adobe, USA

Julia Kiseleva, Microsoft Research, USA

Paul Thomas, Microsoft Research, USA

Tao Ye, Amazon, USA

Shuo Zhang, Bloomberg, UK

Organizing Committee

Surupendu Gangopadhyay, DA-IICT, India

Ayan Bandyopadhyay, TCG CREST, India

Sandip Modha, LDRP, India

Bhargav Dave, DA-IICT, India

Dreamy Pujara, DA-IICT, India

Aayushi Patel, DA-IICT, India

Misha Patel, DA-IICT, India

Ganesh Epili, DA-IICT, India