

# Preface

The 12<sup>th</sup> edition of the Forum for Information Retrieval Evaluation (FIRE 2020) was characterized again by growth. FIRE 2020 was organized virtually with support from IDRBT, Hyderabad. We witnessed a record number of 10 tracks and 112 submissions from all over the world. This volume provides a collection of the peer reviewed workshop papers of the participants as well as the overview papers for each track.

This year the focus of tracks was on legal information access, mixed script information retrieval, semantic analysis and classification of social media posts, event identification and Authorship identification for Source code to name a few. Diverse NLP applications and tasks were offered for languages like Hindi, Urdu, Bengali, Marathi, Tamil, Malayalam and English.

The tracks offered this year are

- Hate Speech and Offensive Content Identification in Indo-European Languages
- Artificial Intelligence for Legal Assistance
- Authorship Identification of SOURCE CODE
- Sentiment Analysis of Dravidian Languages in Code-Mixed Text
- Cause-Effect Relation Extraction from Text
- Causality-driven Ad hoc Information Retrieval
- Retrieval from Conversational Dialogues
- Fake News Detection in the Urdu Language
- Anaphora Resolution from Social Media Text in Indian Languages
- Event Detection from News in Indian Languages

We express our gratitude to all the track organizers for their dedication in organizing these tracks and thus promoting scientific progress. We also thank all participants for their enthusiastic participation and work on the tasks.

A special thanks goes to ‘ACM SIGIR Special Interest Group on Information Retrieval’ for their continued support.

Parth Mehta  
Prasenjit Majumder  
Thomas Mandl  
Mandar Mitra

# List of Reviewers

## Hate Speech and Offensive Content Identification in Indo-European Languages (HASOC)

Thomas Mandl - University of Hildesheim, Germany  
Sandip Modha - DAIICT & LDRP, India  
Durgesh Nandini - University of Bamberg, Germany  
Amit Kumar Jaiswal - University of Bedfordshire, UK  
Anand Kumar M – National Institute of Technology Karnataka, India  
Lea Wöbbeckind - University of Hildesheim, Germany  
Linda Achilles - University of Hildesheim, Germany  
Sukomal Pal - Indian Institute of Technology, Varanasi, India  
Ritesh Kumar - Bhimrao Ambedkar University, India  
Johannes Schäfer - University of Hildesheim, Germany  
Christa Womser Hacker- University of Hildesheim, Germany  
Zc Zhang - Yunnan University, China  
Roushan Raj - Aryabhatta Knowledge University, India  
Suman Dowlagar - International Institute of Information Technology, Hyderabad, India  
Varsha Reddy - International Institute of Information Technology, Hyderabad, India  
Tochukwu Ezike – BinaryHills, Nigeria  
Hiren Madhu - LDRP-ITR, Gandhinagar, India  
Bo Huang - Yunnan University, China  
Pankaj Singh - Indian Institute of Technology Bombay, India  
Kalaivani A - SSN College of Engineering, India  
Julia Maria Struß - University of Applied Sciences Potsdam, Germany  
Xiaozhi Ou - Yunnan University, China  
Huiping Shi - Yunnan University, China  
Sridhar Swaminathan - Bennett University, India  
Gautam Kishore Shahi - University of Duisburg-Essen, Germany  
Linda Achilles - University of Hildesheim, Germany  
Segun Aroyehun - Center for Computing Research (CIC), National Polytechnic Institute (IPN), Mexico  
Kirti Kumari – NIT Patna, India  
Tathagata Raha - IIIT Hyderabad, India  
Ritesh Kumar - Dr. Bhimrao Ambedkar University, Agra, India  
Salar Mohtaj - TU Berlin, Germany  
Abhinav Kumar NIT Patna, India  
Sunil Saumya - NIT Patna, India  
Bharathi Raja Chakravarthi – National University of Ireland Galway  
Navya Jose – IIITM-Kerala, India  
Premjith B – Amrita Vishwa Vidyapeetham, India  
Shardul Suryawanshi – National University of Ireland Galway, Ireland  
Vigneshwaran Muralidaran – Cardiff University, United Kingdom  
Ruba Priyadarshini – Saraswathi Narayanan College, India

John P. McCrae – National University of Ireland, Galway  
Sainik Kumar Mahata, Institute of Engineering and Management, India  
Shubhanker Banerjee, National University of Ireland Galway  
Asrita Venkata Mandalam, Birla Institute of Technology and Science, Pilani  
H L Shashirekha, Mangalore University, Karnataka  
Supriya Chanda, IIT BHU  
Balasundaraman L, Facebook, India  
Prakash Babu Uandrapati, NIT Trichy  
Deepesh Sharma, Indian Institute of Information Technology (IIIT) Kottayam  
Sajeetha Thavareesan, Eastern University, Sri Lanka  
Priya Rani, National University of Ireland Galway  
Arun Jayapal, Trinity College Dublin  
Parameswari Krishnamurthy, University of Hyderabad,

### **Artificial Intelligence for Legal Assistance (AILA)**

Parth Mehta – Parmonic AI  
Paheli Bhattacharya – Indian Institute of Technology, Kharagpur  
Kripabandhu Ghosh – IISER, Kolkata  
Saptarshi Ghosh – Indian Institute of Technology, Kharagpur

### **Authorship Identification of Source Code (AI-SOCO)**

Ali Fadel, Jordan University of Science and Technology, Jordan  
Husam Musleh, Jordan University of Science and Technology, Jordan  
Ibraheem Tuffaha, Jordan University of Science and Technology, Jordan  
Mahmoud Al-Ayyoub, Jordan University of Science and Technology, Jordan  
Yaser Jararweh, Duquesne University, USA  
Elhadj Benkhelifa, Staffordshire University, UK  
Paolo Rosso, Universitat Politècnica de València, Spain

### **Sentiment Analysis of Dravidian Languages in Code-Mixed Text**

Bharathi Raja Chakravarthi – National University of Ireland Galway  
Navya Jose – IIITM-Kerala, India  
Premjith B – Amrita Vishwa Vidyapeetham, India  
Shardul Suryawanshi – National University of Ireland Galway, Ireland  
Vigneshwaran Muralidaran – Cardiff University, United Kingdom  
Ruba Priyadharshini – Saraswathi Narayanan College, India  
Anand Kumar M – National Institute of Technology Karnataka, India  
John P. McCrae – National University of Ireland, Galway  
Sainik Kumar Mahata, Institute of Engineering and Management, India  
Shubhanker Banerjee, National University of Ireland Galway  
Asrita Venkata Mandalam, Birla Institute of Technology and Science, Pilani  
H L Shashirekha, Mangalore University, Karnataka

Suman Dowlagar, International Institute of information technology, Hyderabad  
Supriya Chanda, IIT BHU  
Balasundararaman L, Facebook, India  
Prakash Babu Uandrapati, NIT Trichy  
Deepesh Sharma, Indian Institute of Information Technology (IIIT) Kottayam  
Sajeetha Thavareesan, Eastern University, Sri lanka  
Priya Rani, National University of Ireland Galway  
Arun Jayapal, Trinity College Dublin  
Parameswari Krishnamurthy, University of Hyderabad,  
Sridhar Swaminathan, Bennett University  
Abhinav Kumar NIT Patna, India  
Pankaj Singh - Indian Institute of Technology Bombay, India

### **Cause-Effect Relation Extraction from Text (CEREX)**

Manjira Sinha, Indian Institute of Technology, Kharagpur  
Tirthankar Dasgupta, TCS Research and Innovation

### **Causality-driven Ad hoc Information Retrieval (CAIR)**

Debasis Ganguly, IBM Research Lab, Dublin  
Suchana Datta, University College Dublin  
Derek Greene, University College Dublin  
Dwaipayan Roy, IISER, Kolkata  
Charles Jochim, IBM Research Lab, Dublin  
Francesca Bonin, IBM Research Lab, Dublin

### **Retrieval from Conversational Dialogues (RCD)**

Dipasree Pal, IRSI, India  
Debasis Ganguly, IBM Research, Ireland  
Procheta Sen, Dublin City University, Ireland  
Manisha Verma, Yahoo! Research, New York

### **Fake News Detection in the Urdu Language (UrduFake)**

Alexander Gelbukh, Instituto Politécnico Nacional, Mexico  
Maaz Amjad, Instituto Politécnico Nacional, Mexico  
Alisa Zhila, Independent Researcher  
Grigori Sidorov, Instituto Politécnico Nacional, Mexico  
Iqra Ameer, Instituto Politécnico Nacional, Mexico  
Noman Ashraf, Instituto Politécnico Nacional, Mexico

## **Anaphora Resolution from Social Media Text in Indian Languages**

Sobha Lalitha Devi, AU-KBC Research Center, India

## **Event Detection from News in Indian Languages (EDNIL)**

Prasenjit Majumder, DAIICT, Gandhinagar  
Surupendu Gangopadhyay, DAIICT, Gandhinagar  
Bhargav Dave, DAIICT, Gandhinagar