

# Annual Report

2019 - 2020





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# About CIS

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The Centre for Internet & Society (CIS) is more than a decade old non-profit organization with offices in Bengaluru and New Delhi undertaking interdisciplinary policy and academic research on internet and digital technologies.

CIS secretariat works across several research programmes such as Accessibility (for the visually impaired and persons with disabilities); Access to Knowledge (covering copyright, patent, open data, free and open source software, open standards, open access, open educational resources, and open content); Internet Governance (on free speech, privacy, artificial intelligence, big data, cyber security, and future of work); Telecommunication (spectrum and broadband), and Researchers at Work (multi-disciplinary research on internet and digital media technologies).

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CIS has been associated with several regional and international research networks:

## **Research Networks**

Privacy International: Member of the Privacy International network funded by IDRC

Cyber Stewards: Member of the Cyber Stewards Network since 2013

Global Partnership on AI: Member of the Partnership on Artificial Intelligence to Benefit People and Society since 2017

## **International Self Regulatory /Multi Stakeholder Networks**

WIPO: Accredited NGO

Global Network Initiative: Elonnai Hickok is an Alternative Board Member of GNI

ICANN: Active Member of Non Commercial Stakeholder Group and Asia Pacific Representative of the NCUC in 2013

Open Data Charter: CIS is a lead steward of the Open Data Charter



**REGISTRATION NO.**

SOR/BLU/DR/S7/08-09 dated 04-07-09, under the Karnataka Societies Registration act, 1960.

CIS is certified under Section 12 A, R/w Section 12 AA (1) (b) (i) of the Income Tax Act 1961.

The society is registered under Section 16 of the Foreign Contributions (Regulation) Act, 2010 read with Rule 12 of Foreign Contribution (Regulation) Rules, 2011 as amended from time to time.

**REGISTERED OFFICE**

Centre for Internet and Society, No. 194, 2nd 'C' Cross, Domlur, 2nd Stage, Bengaluru, Karnataka 560071

**BANKERS**

Kotak Mahindra Bank, 22, Ground Floor Ing Vysya House, MG Road, Bengaluru, Karnataka 560001

State Bank of India, Race Course Road Branch, 29/4, Race Course Road, Trade Centre, Bengaluru, Karnataka 560001

# Resource Utilisation

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CIS brings together a range of people with backgrounds in various disciplines that have made significant interventions and impacts in the newly emerging area of Internet and Society. Functioning through a model of collaborations, consultations and peer-networking, our works feature some of the most innovative and relevant ideas embodied by the different people we work with.

We also undertake research, advocacy, and educational programmes which involve an extensive network of researchers, practitioners, artists, and institutions partnering with us intellectually and programmatically.

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## **The society of CIS consisted of 10 members, during 2019 - 20.**

The board meetings were conducted on the following dates in the year 2019-20:

- 7th Sept 2019
- 17th Feb 2020
- 17th March 2020

The Annual General Meeting (AGM) for the year 2019-20 was held on 8th September 2019 and the EGM held on 16th March 2020.

## **ABOUT THE TEAM**

CIS undertakes policy-focused, applied, and academic research on topics at the intersection of internet and society, driven by concerns of human rights and public interest. CIS has established offices in the cities of Bangalore and New Delhi.

**MEMBERS OF BOARD**

<b>Name</b>	<b>Position on Board</b>	<b>Occupation</b>	<b>Area of Competency</b>	<b>Term Served</b>	<b>No. of Board Meetings Attended in 2019-20 Attended</b>	<b>Salaries per Month (₹)</b>
Amber Sinha	President	Executive Director	Research	2019 - 2021	3	3,60,000
T. Vishnu Vardhan	Member	Researcher / Business Consultant	Research	2014-2020	3	nil
Shyam Ponappa	Member	Researcher and Columnist	Telecom	2014-2020	3	nil
Dr. Suchitra Balasubramanyam	Member	Professor	Teaching	2019 till date	3	nil
Dr. Rekha Jain	Member	Professor	Teaching	2019 till	3	nil
Vibodh Parthasarathi	Member	Professor	Teaching	2019 till date	3	nil

**MEMBERS OF SOCIETY**

<b>Name</b>	<b>Position</b>	<b>Occupation</b>
Amber Sinha	President	Executive Director
T. Vishnu Vardhan	Treasurer	Researcher / Business Consultant
Sunil Abraham	Secretary	Researcher and Columnist
Shyam Ponappa	Member	Professor
Dr. Rekha Jain	Member	Professor
Dr. Suchitra Balasubramanyam	Member	Professor
Vibodh Parthasarathi	Member	Professor
Arindrajit Basu	Member	Research Lead

**STAFF MEMBERS AND SALARIES**

<b>Name</b>	<b>Salaries per Month (₹)*</b>
Amber Sinha	2,38,975
Sumandro Chattapadhyay	1,50,000
Sneha P P	1,25,000
Anubha Sinha	1,25,000
K N Medini	60,500
Mohammed Qutubudin	54,450
Ajoy Kumar	45,254
Royson S.	40,000
Degalahal Shweta Reddy	50,000
Nisha S Kumar	47,000
Elonnai Nadezhda Hickok	Euro 5000
Shyam Ponappa	55,000
Subodh Kulkarni	50,000
Tito Dutta	1,00,000
Ananth Subray P V	48,000
Jayanth Nath	34,000
Saumyaa Naidu	66,000
Pranav Manjesh Bidare	55,000
Shweta Mohandas	55,000
Arindrajit Basu	1,15,000
Ambika Tandon	70,000
Aayush Rathi	70,000
Gurshabad Singh Grover	1,25,000
Satpal Singh	24,000
Bhuvana Meenakshi	28,000
Mira Swaminathan	50,000
Shruti Trikanad	50,000
Yesha Paul	65,000
Nima Lama	30,000
Torsha Sarkar	57,000
Pallavi Bedi	80,000
Bodhisattwa Mandal	36,500
Suswetha Kolluru	28,000
Nithesh Gill	28,000

Akash Sheshadri	55,000
Sunil Abraham	1,13,909
Aman Nair	65,000
Akriti Bopanna	55,000
Swaraj Paul Barooah	1,75,000
Karan Saini	50,000
Pavan Santhosh	41,400
Sailesh Patnaik	25,400
Gopala Krishna	34,800
Khetrimayum Monish Singh	45,000
Krishna Prasad	28,000
Pooja Saxena	2,05,025
Vidushi Marda	1,20,000

#### **PART-TIME CONSULTANTS**

<b>Name</b>	<b>Fees per Month (₹)*</b>
Vipul Kharbanda	38,500
Noopur Rawal	1,00,000
Rajendra Vasantro	50,000
Sara Zia	50,000
Simiran Lalyani	50,000
Anushree Gupta	50,000
Brinda Lakshmi	50,000
Kushagra Singh	32,000
Varun Bansal	32,000
Ranbir Singh	33,000
Sagorika Singh	60,000
Tanaya Rajwade	55,000
Geetha Menon	90,000
Gautham Bhatia	75,000
Vrinda Bhandari	50,000
Vrinda Grover	30,000
Anusha Madhusudhan	50,000
Subham Bhattacharya	75,000

Kankana Talukdar	35,000
Madhushree Biswas	45,000
Vedika Pareek	25,000
Rajit Pal singh	45,000
Paul Anthony George	38,000
Eeshita Kanadiya	60,000
Dhiman Roy	40,000
Rosamma Thomas	50,000
Santa Khurai	40,000
Matam Manogna	25,000

**Monthly remuneration of 3 highest paid employees and 1 lowest paid employee in ₹**

3,60,000	1,75,000	1,50,000	31,680
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*(Remuneration of the Lowest Paid Staff Members is as per the Minimum Wages in the respective State Government Minimum Wages Notification)*

**STAFF GENDER DISTRIBUTION**

Male	Female	Total
27	20	27

**STAFF GENDER DISTRIBUTION (INCLUDING CONSULTANTS)**

Male	Female	Total
37	38	75



# Donors for Financial Year 2019-20

**ARTICLE 19 (DRL) 2018-19**

**BUSINESS AND STRATEGIES IN - EU**

**FACEBOOK INDIA ONLINE SERVICE**

**GRABTAXI HOLDINGS PTE LTD**

**HCSS CYBER SPACE**

**INTERNET SOCIETY**

**LIRNEASIA 2018 BD4D NETWORK**

**MAPBOX INC**

**MAPILLARY AB**

**OPENCAGE DATA LIMITED**

**PARTNERSHIP ON AI (PAI)**

**PI SUSTAINABILITY GRANT**

**RESEARCH GRANT - ARTICLE 19**

**WIKIMEDIA FOUNDATION FUND 2018-19**

**WILLIAM FLORA HEWLETT FOUNDATION**



**GRANTS RECEIVED FROM DONORS (₹ IN LAKHS)**

<b>Local Donors</b>	
Voluntary Contributions	10,500.00
APU 2017	310,848.00
Google RPL - 2019	3,150,000.00
Facebook Shutdown Stories Fund	1,100,000.00
APU Field Work Fund - 2018-20	640,000.00
<b>Total</b>	<b>5,211,348.00</b>
<b>Foreign Contribution</b>	
ARTICLE 19(DRL)2018-19	2,420,862.50
Association for Progressive Communications (APC) Fund	2,700,390.01
East West Management Institute INC Fund	941,379.08
The International Center for Not-for-Profit Law (ICNL)	364,160.47
Lirneasia-2018-BD4D Network	4,768,361.64
MacArthur IG 2019 Fund	10,263,473.55
Mozilla Research Grant	1,759,541.24
Omidyar Network Fund	13,685,315.70
Partnership on AI (PAI)	93,184.42
Privacy International 2019	1,109,700.00
The Asia Foundation 2019 - 20	332,000.00
University of London	86,617.00
University of Munich Fund	585,542.70
University of Oxford Fund 2020	493,657.74
Wikimedia Foundation Fund (WMF) 2019-20	14,136,531.30
William Flora Hewlett Foundation	12,846,550.00
Wikimedia Foundation (WMF) TIGER 2019 Fund	5,091,343.63
<b>Total</b>	<b>71,678,610.98</b>
<b>Grand Total</b>	<b>76,889,958.98</b>

# Highlights for 2019-20

## HIGHLIGHTS

- The unprecedented growth of fintech space in India has concomitantly come with regulatory challenges around privacy and security concerns. **Aayush Rathi and Shweta Mohandas have co-authored a report** that analyses the privacy policies of 48 fintech companies operating in India.
- In today's increasingly digitized world where volumes of information are stored in digital format, access to data is important in solving crimes online and offline. One such mechanism for international cooperation is the Convention on Cybercrime adopted in Budapest. **Vipul Kharbanda has provided a deeper analysis** on this.
- CIS responded to ICANN's proposed renewal of .org Registry. CIS has highlighted some issues with the proposed agreement. These centre on the removal of price caps and imposing obligations currently deliberated in an ongoing Policy Development Process. **Akriti Bopanna drafted the response.**
- The Department of Industrial Policy and Promotion released a draft e-commerce policy in February for which stakeholder comments were sought. **CIS responded to the request for comments.**
- CIS Access to Knowledge team (CIS-A2K) **has submitted its proposal form** for the year 2019 - 2020 to the Wikimedia Foundation. CIS acknowledges all community members who gave valuable inputs in drafting the proposal.
- In 2017-2018, the **Wikimedia Foundation (WMF)** and Google collaborated to start a pilot project in India, working closely with the **Centre for Internet and Society (CIS)** and the **Wikimedia India chapter (WMIN)**. The project, titled Project Tiger was aimed at encouraging Wikipedia communities to create locally relevant and high-quality content in Indian languages. CIS-A2K team submitted Project Tiger final report.
- The **r@w blog** features research on the intersections of internet, digital media and society, from ongoing research and events at the researchers@work programme at CIS. On the r@w blog we featured an essay titled 'The Internet in the Indian Judicial Imagination' by Divij Joshi, as part of a series on **Studying Internet in India (2015)**; and audio recording of a session titled **#ObjectsofDigitalGovernance** by Khetrinmayum Monish Singh, Rajiv K. Mishra, and Vidya Subramanian which was part of the Internet Researchers Conference, 2017.
- **Omidyar Network** is investing in establishing a three-region research alliance co-led by the Institute for Technology & Society, Brazil, the Centre for Intellectual Property and Information Technology Law, Kenya, and CIS, India on appropriate use of Digital Identity. CIS will analyze the policy objectives of digital identity projects, how technological policy choices can be thought through to meet the objectives, and how legitimate uses of a digital identity framework may be evaluated.
- The term Fintech is generally used to describe innovative technology and technological processes being used in the financial services sector. **Vipul Kharbanda has presented a detailed analysis of RBI's Draft Framework on Regulatory Sandbox for Fintech.**

- CIS's 'Access to Knowledge' wing (CIS-A2K) signed a MoU with PAH Solapur University, Maharashtra to promote content generation in Wikimedia projects among institutions under university affiliation and develop a platform for outreach programs on digital knowledge, language and technologies, FOSS, unicode, etc.
- Timely and affordable access to scientific research remains a problem in this digital day and age. Most countries including India continue to struggle with implementing open access. The latest international initiative (created in Europe) to remedy this problem is Plan S. This has been positioned as a strategy to implement immediate open access to scientific publications from 2021 which India is considering adopting. **Anubha Sinha in an article unpacks the disorderly growth of open access in India**, and discusses the gap between the Plan's vision and current Indian scenario in some respects.
- **Shweta Mohandas was nominated to curate Genderlog's Twitter handle (@genderlogindia)**. She tweeted about topics related to gender and data, more specifically around AI, big data, privacy and surveillance.
- **Sumandro Chattapadhyay and Tim Davies co-authored a chapter titled Open Data and Land Ownership in State of Open Data book** which was launched by World Bank. The authors have thrown light on how the lessons from the land ownership field highlight the political nature of data, and illustrate the importance of politically aware interventions when creating open data standards, infrastructure, and ecosystems.
- The Bodies of Evidence collection, edited by Bishakha Datta and Richa Kaul Padte, is a collaboration between Point of View and CIS as part of the Big Data for Development Network supported by International Development Research Centre (IDRC), Canada. Can data ever know what it really is? This is an excerpt from an essay by Zara Rahman, written for and published as part of the Bodies of Evidence collection of Deep Dives.
- **Rohini Lakshané and Shweta Mohandas have updated their paper 'Joining the Dots in India's Big-Ticket Mobile Phone SEP Litigation'** which chronicles mobile device SEP litigation in India. All developments in the lawsuits filed in the Delhi High Court and complaints made to the CCI that were published in reliable sources till 20 September 2018 are mentioned in this paper.
- Christ University in association with CIS-A2K organized the **Wikimedia Education SAARC Conference 2019**, from 20 - 22 June 2019, at Christ University, Bengaluru. Forty-nine Wikimedians from four countries (Sri Lanka, Nepal, Bangladesh, and India) participated in the event. Subodh Kulkarni in his report reveals that the event discussed challenges pertaining to retention and quality and methodologies to evaluate and measure the work being done on Wikipedia.
- CIS and Internet Society organized an event on the impact of consolidation in the Internet economy. The round-table focused on the policies and regulation and technical evolution of the Internet. The report by **Akriti Bopanna and Gurshabad Grover contributed to the Internet Society's 2019 Global Internet Report on Consolidation in the Internet Economy**.
- An excerpt from an essay by **Sadaf Khan**, written for and published as part of the **Bodies of Evidence collection of Deep Dives** was mirrored on the website. The Bodies of Evidence collection, edited by Bishakha Datta and Richa Kaul Padte, is a collaboration between Point of View and CIS, undertaken as part of the Big Data for Development Network supported by IDRC.

- CIS presented its comments on the proposed rules 29, 30, 31 of the Draft Copyright (Amendment) Rules, 2019 to the Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Govt. of India. The comments were made in response to Notification G.S.R 393(E) published in the Gazette of India on May 30, 2019. CIS submitted that in the domestic approach to modernising our copyright legislation, we must refrain from considering distribution of born-digital/ digitised works over the public Internet equivalent to the function of broadcasting works over cable/ satellite.
- ICANN has Advisory Committees which help guide the policy recommendations that the ICANN community develops while its supporting organizations develop policy recommendations for a particular aspect of ICANN's operations. ICANN publishes a combined budget for all these bodies under the head of policy development. CIS inquired about the financial resources allocated to each of them specifically.
- CIS in partnership with the Internet Society organized an event on the impact of consolidation in the Internet economy. It was divided into two roundtable discussions that aimed to analyze how growing forces of consolidation, including concentration, vertical and horizontal integration, and barriers to market entry and competition would influence the internet in the next 3 - 5 years. The report by Akriti Bopanna and Gurshabad Grover provides an insight into the developments.
- As part of its Researchers at work programme on key thematic areas at the intersections of internet and society, CIS called for abstracts for essays that explore social, economic, cultural, political, infrastructural, or aesthetic dimensions of the 'list'.
- With the rise and popularity of app-based platforms such as Ola, Uber, Swiggy, Zomato, and others, there is a growing public conversation about regulation of such 'gig-work' platforms and the working conditions of people who work for them. To explore this further, CIS conducted a panel discussion at its Bangalore office. Researchers associated with the project presented their preliminary findings. Panelists' preliminary field gave insights along with reflections on what it meant to do such studies, how they went about studying gig-work, and challenges that arose in their work.
- An excerpt from an essay by Maya Indira Ganesh, written for and published as part of the Bodies of Evidence collection of Deep Dives titled You auto-complete me: romancing the bot explains human relations with bots. The Bodies of Evidence collection, edited by Bishakha Datta and Richa Kaul Padte, is a collaboration between Point of View and CIS, undertaken as part of the Big Data for Development Network supported by IDRC, Canada.
- The Oxford Internet Institute and CIS are creating a State of the Internet's Languages report, as baseline research with both numbers and stories, to demonstrate how far we are from making the internet multilingual. The call is available in Arabic, Brazilian Portuguese, English, IsiZulu, Spanish, and Tamil. CIS invites friends and communities to translate the call into other languages.
- CIS's Access to Knowledge (A2K) team is conducting a free knowledge movement and as part of this initiative it is inviting contributions from the Wikipedia community. Photos, media, content or archives donated by community members would be used worldwide to disseminate information. The content you are donating must be under Creative Commons Share-like content. You must have the copyright of the content under CC licenses.
- Over the last few years, several digital identity schemes have been initiated in



different countries across the world. There has been significant momentum on digital ID, especially after the adoption of UN Sustainable Development Goal 16.9, which calls for legal identity for all by 2030. Authors, Amber Sinha and Pooja Saxena, explore about the uses and design of digital identity systems and ask two core questions a) What are appropriate uses of ID?, and b) How should we think about the technological design of ID?

- Together with the **Institute of Technology & Society (ITS), Brazil**, and the **Centre for Intellectual Property and Information Technology Law (CIPIT), Kenya**, CIS participated at a side event in **RightsCon 2019 held in Tunisia**, titled **Holding ID Issuers Accountable, What Works?**, organised by the **Omidyar Network**. A report of the event is **published here**.
- As governments across the globe implement new, foundational, digital identification systems (“Digital ID”), or modernize existing ID programs, there is dire need for greater research and discussion about appropriate uses of Digital ID systems. At RightsCon 2019 in Tunis, we presented **working drafts on appropriate use of Digital ID** by the partner organisations of this **three-region research alliance** - ITS from Brazil, CIPIT from Kenya, and CIS from India.
- CIS gave its **comments to the ID4D Practitioners’ Guide: Draft for Consultation released by ID4D** in June, 2019. The submission is divided into three main parts. The first part (General Comments) contains the high-level comments on the Practitioners’ Guide, while the second part (Specific Comments) addresses individual sections in the Guide. The third and final part (Additional Comments) does not relate to particulars in the Practitioners’ Guide but other documents that it relies upon.
- The Ministry of Health and Family Welfare had released the National Digital Health Blueprint on 15 July 2019 for comments. CIS **submitted its comments**. CIS notes that the nature of data which would be subject to processing in the proposed digital framework pre-supposes a robust data protection regime in India, one which is currently absent. Accordingly, it urges the ministry to cease the implementation of the framework until the Personal Data Protection Bill is passed by the Parliament.
- **Aayush Rathi, Vedika Pareek, Divij Joshi and Pranav Bidare co-authored a research paper ‘Future of Work in the ASEAN’**. The authors reveal that the future of work will be mediated through region and country specific factors such as socio-economic, geo-political and demographic change. The report was edited by Elonnai Hickok and Ambika Tandon with research assistance by Sankalp Srivastava and Anjanaa Aravindan. The research was supported by Tides Foundation.
- Centre for Internet & Society’s **application for membership of the Christchurch Call Advisory Network** was accepted! As a part of this network, we, along with other civil society groups based out of various jurisdictions, would be providing inputs on making the Call a robust, human rights-centred initiative.
- A book by Amber Sinha titled **‘The Networked Public: How Social Media is Changing Democracy’** was published by Rupa Publications. The book looks at how networks exert unchecked power in subverting political discourse and polarizing the public in India. Towards that, it investigates the history of misinformation and the biases that make the public susceptible to it, how digital platforms and their governance impacts the public’s behaviour in them, as well as the changing face of political targeting in a data-driven ecosystem.
- **Akriti Bopanna and Gayatri Puthran co-authored a research paper** which compares

the Manila Principles to Draft of The Information Technology [Intermediary Guidelines(Amendment) Rules], 2018, introduced by the Ministry of Electronics and Information Technology (MeitY) in December, 2018.

- Gurshabad Grover and Torsha Sarkar along with Rajashri Seal and Neil Trivedi co-authored a **paper that examines the constitutionality of the government prohibition on the broadcast of news** against private and community FM channels. The authors also mapped chronologically the history of the development of community and private radio channels in India.
- **Ambika Tandon and Aayush Rathi generated empirical evidence about the CCTV programme** well underway in Delhi. The case study was published by Centre for Development Informatics, Global Development Institute, SEED, in the Development Informatics working paper series housed at the University of Manchester.
- **Shruti Trikanand and Amber Sinha published a blog post titled Core Concepts and Processes** by which the authors hope to arrive at a shared vocabulary to discuss and critically analyze digital identity systems, both within our team and in engagements with other stakeholders.
- The Global Commission on the Stability of Cyberspace released a public consultation process that sought to solicit comments and obtain feedback on the definition of “Stability of Cyberspace”, as developed by the Global Commission on the Stability of Cyberspace (GCSC). **CIS gave detailed commentary on the definitions and suggested a new definition of cyber stability.**
- CIS is undertaking a **study on digital mediation of domestic and care work in India**, as part of and supported by the Feminist Internet Research Network led by the Association for Progressive Communications (APC), funded by IDRC. The study is exploring the ways in which structural inequalities, such as those of gender and class, are being reproduced or challenged by digital platforms. The project sites are Delhi and Bangalore, where we are conducting interviews with workers, companies, and unions. In Bangalore, we are collaborating with Stree Jagruti Samiti to collect qualitative data from different stakeholders. The outputs of the research will include a report, policy brief, and other communication materials in English, Hindi, and Kannada. This study is being led by Ambika Tandon and Aayush Rathi, along with Sumandro Chattapadhyay.
- CIS-A2K has put up a call for **joining the Free Knowledge movement #Wikipedia #Wikimedia**. Are you an individual or do you represent any organisation, institution, groups or enterprises? You can actually help the ‘Free Knowledge’ movement by donating photos, media, content or archives.
- **Gurshabad Grover has been nominated through the Bureau of Indian Standards (BIS) to be a member of the Advisory Group on Open Source Software for ISO/IEC JTC 1.**
- In the wake of the Christchurch terror attacks, the Prime Minister of New Zealand, Jacinda Ardern, and the President of France, Emmanuel Macron co-chaired the Christchurch Call to Action in May 2018 to “bring together countries and tech companies in an attempt to bring to an end the ability to use social media to organize and promote terrorism and violent extremism.” **CIS sent its comments to the Call.**
- Over the past decade, a few private online intermediaries, by rapid innovation and integration, have turned into regulators of a substantial amount of online speech. Such concentrated power calls for a high level of responsibility on them to

ensure that the rights of the users online, including their rights to free speech and privacy, are maintained. **CIS has analyzed the companies' transparency reports** for government requests for user data and content removal.

- The Department of Labour convened an interaction program of sorts at Vikas Soudha in Bangalore on October 21, 2019 to hear the issues plaguing the emergent gig economy. **Bharath Gururagavendran has thrown more light on this in a blog post.**
- **CIS presented a response to the United Nations Human Rights Commission Report on Gender and Privacy** on 'Gender issues arising in the digital era and their impacts on women, men and individuals of diverse sexual orientations gender identities, gender expressions and sex characteristics'.
- CIS made a **submission to the draft Code on Social Security, 2019** prepared by the Government of India's Ministry of Labour and Employment.
- On October 17, 2019, the UN Special Rapporteur (UNSR) on Extreme Poverty and Human Rights, Philip Alston, released his thematic report on digital technology, social protection and human rights. Understanding the impact of technology on the provision of social protection – and, by extent, its impact on people in vulnerable situations – **has been part of the work CIS has been doing.**
- A case study titled **Farming the Future: Deployment of Artificial Intelligence in the agricultural sector in India** was published as a chapter in the joint UNESCAP-Google publication titled Artificial Intelligence in Public Service Delivery.
- In response to our call for contributions and reflections on 'Decolonising the Internet's Languages' in August, we are delighted to announce that **we received 50 submissions, in over 38 languages!** From all these extraordinary offerings, we have selected nine that we will invite and support the contributors to expand further.
- In a case study undertaken as part of the Big Data for Development (BD4D) network, **Ambika Tandon evaluates the Mother and Child Tracking System (MCTS)** as data-driven initiative in reproductive health at the national level in India.
- If you think that Indian languages are as important as international languages, like English, then, you are on the same page with this article. **Suswetha Kolluru and Nitesh Gill explain this in their blog posts published in multiple languages: English, Punjabi, Hindi and Telugu.**
- **CIS is a partner on the project 'Gender, Health Communications and Online Activism in the Digital Age'.** The project is led by Dr. Carolina Matos, Senior Lecturer in Sociology and Media in the Department of Sociology at City University. Ambika Tandon, Policy Officer at CIS, conducted fieldwork for the project in May and June 2019 as a research assistant. **Dr. Carolina Matos's presentation can be accessed here.**
- The need for intervention in the cyber security imagery in media publications was realized during a brainstorming workshop that was conducted by CIS with illustrators, designers, and cyber security researchers. Towards this **CIS compiled a handbook introducing Cybersecurity Visuals Media.** CIS, along with Design Beku launched the **Cybersecurity Visuals Media Handbook.** This handbook has been conceived to be a concise guide for media publications to understand the specific concepts within cyber security and use it as a reference to create visuals that are more informative, relevant, and look beyond stereotypes.
- **Anusha Madhusudhan authored a research paper titled "Blockchain: A primer for India".** The paper aims to provide a comprehensive review of existing research and major debates surrounding Blockchain technology and its developments in select

jurisdictions with a specific focus on India.

- Vipul Kharbanda authored a research paper titled **Draft Security Standards for The Financial Technology Sector in India**. The document includes draft information security standards, which seek to ensure that not only the data of users is dealt with in a secure and safe manner but also that the smaller businesses in the fintech industry have a specific standard to look at in order to limit their liabilities for any future breaches.
- Pukhraj Singh, a cyber-threat intelligence analyst who has worked with the Indian government and security response teams of global companies authored a guest blog post titled **“Before cyber norms, let’s talk about disanalogy and disintermediation”**. Pukhraj looks at the critical fissures – at the technical and policy levels – in global normative efforts to secure cyberspace.
- CIS was acknowledged in the **final report of the Global Commission on Stability of Cyberspace**.

#### **CIS AND THE NEWS**

- **Delayed Cash Flows and NPAs** (Shyam Ponappa; Business Standard; April 3, 2019).
- **Reddit, Telegram among websites blocked in India, say internet groups** (Sai Sachin Ravikumar; Business Standard; April 3, 2019).
- **Data leaks could wreak havoc in India, so why aren’t they an issue this election?** (Aria Thaker; Quartz India; April 4, 2019).
- **Cookies, not the monster you may think** (Sweta Akundi; Hindu; April 8, 2019).
- **To preserve freedoms online, amend the IT Act** (Gurshabad Grover; April 16, 2019).
- **TikTok craze a ticking time bomb for city** (Gulam Jeelani with inputs from Priyanka Sharma and Ajay Kumar; India Today; April 17, 2019).
- **Almost every social network has a porn problem—so why is India banning only TikTok?** (Ananya Bhattacharya; Quartz India; April 19, 2019).
- **Child protection and cyber-grooming: Indian court rescinds its own Tiktok ban** (Leon Kaiser; Netzpolitik.org; April 24, 2019).
- **Digital Native: Getting through an election made for the social media gaze** (Nishant Shah; Indian Express; April 21, 2019).
- **How privacy fares in the 2019 election manifestos | Opinion** (Aayush Rathi and Ambika Tandon; May 1, 2019).
- **Democracy, Digital India and Networks** (Shyam Ponappa; Business Standard; May 1, 2019).
- **Cyber criminals hide in the ‘dark web’ to remain anonymous** (Tushar Kaushik; Economic Times; May 2, 2019).
- **Why the TikTok ban is worrying** (Gurshabad Grover; Hindustan Times; May 2, 2019).
- **BJP outspends Congress, others in social media advertising** (Vidhi Choudhary; Hindustan Times; May 3, 2019).
- **Digital Native: Narendra Modi’s interview by Akshay Kumar is a PR masterpiece** (Nishant Shah; Indian Express; May 5, 2019).



- Will the WTO Finally Tackle the ‘Trump’ Card of National Security? (Arindrajit Basu; The Wire; May 8, 2019).
- Three emerging market think tanks to collaborate on Good ID recommendations with Omidyar backing (Chris Burt; Biometric Update; May 8, 2019).
- Digital Native: Three things we need to realise about what TikTok is doing to us (Nishant Shah; Indian Express; May 19, 2019).
- “Aadhaar Reduced Agency in Citizens and Empowered Those in Positions of Authority” (Martin Moore; News Click; May 20, 2019).
- In Parts of India, Internet Shutdowns Are a Fact of Life (Megha Bahree; Top10VPN; May 21, 2019).
- Open Data and Land Ownership (Sumandro Chattapadhyay; State of Open Data; May 22, 2019).
- Can EVM vulnerabilities be used to game the Indian election? (Karan Saini; Kaarana Blog; May 22, 2019).
- Artificial Intelligence: Consumer Experiences in New Technologies (Consumer International; May 28, 2019).
- The Huawei bogey (Gurshabad Grover; Indian Express; May 30, 2019).
- Plugging into India’s broadband revolution (Navadha Pandey; Livemint; June 4, 2019).
- Banking on artificial intelligence: In hiring drive, Bots are calling the shots now (Anjali Venugopal; Economic Times; June 4, 2019).
- Fragmenting Cybersecurity Norms through the Language(s) of Subalternity: India in the East and the Global Community (Riccardo Vecellio Segate; Columbia Journal of Law; June 6, 2019).
- 5G Aspirations and Realities (Shyam Ponappa; Business Standard; June 6, 2019).
- Interpreting the Outer Space Treaty’s Non-Appropriation Principle: Customary International Law from 1967 to Today (Abigail D. Pershing; Yale Journal of International Law; June 6, 2019).
- Facebook to pay Indians to give up privacy: Experts raise questions (Geetika Mantri; Newsminute; June 14, 2019).
- Staying silent about cyberbullying is no longer an option (Nishant Shah; Indian Express; June 16, 2019).
- Chasing fame and fun 15 seconds at a time: Why TikTok has India hooked (Tora Agarwala, Surbhi Gupta, and Karishma Mehrotra; Indian Express; June 23, 2019).
- Facebook’s Libra: A bit too ambitious? (Rajmohan Sudhakar; Deccan Herald; June 30, 2019).
- Facebook sees its salvation with its cryptocurrency Libra (Nishant Shah; Indian Express; June 30, 2019).
- PIB plans a fact-checking unit to counter fake news (Smriti Kak Ramachandran; Hindustan Times; July 3, 2019).
- How Sai Baba Was Made To Spy On Your Phone For Credit Ratings (Gopal Sathe; Huffington Post; July 4, 2019).
- Mozilla is funding a way to support Julia in Firefox (Catalin Cimpanu; ZD Net; July 8, 2019).

- **Deepfakes: Algorithms at war, trust at stake** (Rajmohan Sudhakar; Deccan Herald; July 14, 2019).
- **Digital public information system design: Talk to experts, find the right way** (Prachatai; July 18, 2019).
- **Easing the US-India divergence on data localisation** (Shashidhar KJ and Kashish Parpiani; Observer Research Foundation; July 22, 2019).
- **For sex workers, mobile phone becomes a double-edged sword** (Tushar Kaushik; Economic Times; July 23, 2019).
- **Twitter reacts to the India's cryptocurrency drama** (Rajarshi Mitra; FXStreet; July 26, 2019).
- **Fostering Strategic Convergence in US-India Tech Relations: 5G and Beyond** (Justin Sherman and Arindrajit Basu; The Diplomat; July 3, 2019).
- **Fix Problems Before Complete Failure** (Shyam Ponappa; Business Standard; July 4, 2019).
- **What is the problem with 'Ethical AI'? An Indian Perspective** (Arindrajit Basu and Pranav M.B; cyberBRICS; July 17, 2019).
- **Old Isn't Always Gold: FaceApp and Its Privacy Policies** (Mira Swaminathan and Shweta Reddy; The Wire; July 20, 2019).
- **The worrying survival of moon landing conspiracy theorists** (Nishant Shah; Indian Express; July 22, 2019).
- **India Is Falling Down the Facial Recognition Rabbit Hole** (Karan Saini and Prem Sylvester; The Wire; July 23, 2019).
- **Why I'm not going to tell you about the dangers of apps like FaceApp** (Nishant Shah; Indian Express; July 28, 2019).
- **The Digital Identification Parade** (Aayush Rathi and Ambika Tandon; Indian Express; July 29, 2019). The authors acknowledge Sumandro Chattapadhyay, Amber Sinha and Arindrajit Basu for their edits and Karan Saini for his inputs.
- **In India, Privacy Policies of Fintech Companies Pay Lip Service to User Rights** (Shweta Mohandas; The Wire; July 30, 2019).
- **The Knowledge Base is Liberated** (Subodh Kulkarni and Madhav Gadgil; Loksatta; August 3, 2019).
- **Private Sector and the cultivation of cyber norms in India** (Arindrajit Basu; Nextrends India; August 5, 2019).
- **Will Modi govt move on Kashmir's Article 370 stand the scrutiny of Supreme Court?** (The Print; August 6, 2019).
- **'I'm just helpless': Concern about Kashmir mounts as communication blackout continues** (Niha Masih; Washington Post; August 6, 2019).
- **Why the Madras HC case on WhatsApp traceability could have wider ramifications** (Haripriya Suresh; The News Minute; August 8, 2019).
- **Ministry of Health's public consultation on National Digital Health Blueprint: Legal issues around telemedicine, consent, and 'egosystems' in healthcare** (Trisha Jalan; Medianama; August 8, 2019).
- **Abuse linked to Net fixation** (Nina C. George; Deccan Herald; August 13, 2019).

- **India Shut Down Kashmir's Internet Access. Now, 'We Cannot Do Anything.'** (Vindu Goel, Karan Deep Singh and Sameer; New York Times; August 14, 2019).
- **India's top science institution is trying hard to fix its "manel" problem** (Quartz India; August 16, 2019). This piece was originally published on Connect under the headline, "We Learned (The Hard Way) Not to Have Manels."
- **Rethinking the intermediary liability regime in India** (Torsha Sarkar; CyberBRICS; August 16, 2019).
- **Digital Native: How free is the internet?** (Nishant Shah; Indian Express; August 18, 2019).
- **Perché l'India ha tagliato internet al Kashmir** (Raffaele Angius; WIRED.IT; August 19, 2019).
- **US pressure threatens to weaken data - localisation mandate in India's landmark data-protection bill** (Sandhya Sharma; ET Prime; August 19, 2019).
- **Linking Aadhaar to Facebook, WhatsApp won't curb fake news, but may undermine its legislation: Experts** (Swathy Moorthy; Moneycontrol; August 20, 2019).
- **Linking Aadhaar to Facebook, Twitter: Possible witch-hunt or key to curb crime & fake news?** (Taran Deol and Revathi Krishanan; The Print; August 21, 2019).
- **AI is biased, you'll see if you Google 'hands'** (Rajmohan Sudhakar; Deccan Herald; August 25, 2019).
- **Government plans tighter rules for social media brands like Facebook, TikTok, ShareChat** (Sunny Sen; CNBC TV 18; August 28, 2019).
- **What Centre will tell Supreme Court on Aadhaar and social media account linkage** (Amrita Madhukalya; Hindustan Times; August 28, 2019).
- **Linking Aadhaar with social media or ending encryption is counterproductive** (Sunil Abraham; Prime Time; August 26, 2019).
- **A judicial overreach into matters of regulation** (Gurshabad Grover; The Hindu; August 28, 2019).
- **Kashmir's information vacuum** (Aayush Rathi and Akriti Bopanna; The Hindu; August 29, 2019).
- **Doing Standpoint Theory** (Ambika Tandon and Aayush Rathi; Gender IT.org; September 1, 2019).
- **Why having more CCTV cameras does not translate to crime prevention** (Manasa Rao; The News Minute; September 3, 2019).
- **Turning off the internet: Chips with Everything podcast** (Gurshabad Grover and Ambika Tandon recorded an episode with the Guardian's podcast on digital culture, called Chips with Everything).
- **Android 10 out, big on 'privacy'** (Roshan H. Nair; Deccan Herald; September 4, 2019).
- **Traffic Rules, Mindset and On-Time Payments** (Shyam Ponappa; Business Standard; September 4, 2019).
- **Internet pour toutes** (Isabelle Grégoire; L'Actualite; September 11, 2019).
- **Kashmir's digital blackout marks a period darker than the dark side of the moon** (Nishant Shah; Indian Express; September 15, 2019).
- **Chennai residents rue fuzzy CCTV surveillance** (Vivek Narayanan and R. Srinivasan;

The Hindu; September 18, 2019).

- **The Networked Public: How Social Media Changed Democracy** (Amber Sinha; Rupa Publications; September 19, 2019).
- **Millions of kids in India access the Net on their parents' devices, says study** (Varun Aggarwal; Hindu Businessline; September 27, 2019).
- **Capturing Gender and Class Inequities: The CCTVisation of Delhi** (Aayush Rathi and Ambika Tandon; Centre for Development Informatics, Global Development Institute; September 27, 2019).
- **SC directs govt to further regulate social media: Is it necessary? Experts weigh in** (Geetika Mantri; The News Minute; September 28, 2019).
- **Setting International Norms of Cyber Conflict is Hard, But that Doesn't Mean that We Should Stop Trying** (Arindrajit Basu and Karan Saini; Modern War Institute; September 30, 2019).
- **Why conviction rate for cyber crime cases in Karnataka is abysmally low** (Theja Ram; News Minute; October 1, 2019).
- **Digital mediation of domestic and care work in India: Project Announcement** (Ambika Tandon and Aayush Rathi; Feminist Internet Research Network, APC; October 1, 2019).
- **Doing Standpoint Theory** (Ambika Tandon and Aayush Rathi; Gender IT; October 10, 2019).
- **We need a better AI vision** (Arindrajit Basu; Fountainink; October 12, 2019).
- **Will FASTag raise privacy concerns?** (Shreya Nandi and Prathma Sharma; Livemint; October 15, 2019).
- **Farming the Future: Deployment of Artificial Intelligence in the agricultural sector in India** (Elonnai Hickok, Arindrajit Basu, Siddharth Sonkar and Pranav M B; UNESCAP-Google publication titled Artificial Intelligence in Public Service Delivery; October 16, 2019).
- **The Mother and Child Tracking System - understanding data trail in the Indian healthcare systems** (Ambika Tandon; Privacy International; October 17, 2019).
- **India's HIV-positive trans people find 'new strength' in technology** (Annie Banerji; Reuters; October 17, 2019). Also mirrored in Jakarta Post and ETHealthworld.com.
- **Dystopia vs development: The Kashmir paradox** (Asmita Bakshi; Livemint; October 19, 2019).
- **Trending Hate Against Muslims: Is Twitter Complicit?** (Puja Bhattacharjee; News Central; October 21, 2019).
- **Facial recognition at airports promises convenience in exchange for surveillance** (Nishant Shah; Indian Express; October 20, 2019).
- **"Politics by other means": Fostering positive contestation and charting 'red lines' through global governance in cyberspace** (Arindrajit Basu; Global Policy and ORF; October 21, 2019).
- **Activists demand judicial probe into WhatsApp snooping** (K.V. Kuramath; Hindu Businessline; November 1, 2019).
- **Cyber law experts asks why CERT-In removed advisory warning about WhatsApp vulnerability** (Megha Mandavia; ET Tech.com; November 4, 2019).

- **WhatsApp spy attack and after** (Theres Sudeep; Deccan Herald; November 6, 2019).
- **India's Role in Global Cyber Policy Formulation** (Arindrajit Basu; Lawfare; November 7, 2019). The article was reviewed and edited by Elonnai Hickok and Justin Sherman.
- **The Telecom Crisis is an NPA Problem** (Shyam Ponappa; Business Standard; November 7, 2019).
- **Should online political advertising be regulated?** (P.J. George; Hindu; November 8, 2019).
- **India facial recognition: How effective will it be?** (Al Jazeera; November 8, 2019).
- **Proposals to regulate social media run into multiple roadblocks** (Saumya Tewari and Abhijit Ahaskar; Livemint; November 27, 2019).
- **PDP Bill: Man's Troll is Woman's allegation** (Mira; Feminism in India; January 16, 2020).
- **Key global takeaways from India's revised data protection bill** (Arindrajit Basu and Justin Sherman; Lawfare; January 23, 2020).
- **Free Speech Week: Right to Protest Upheld** (Mira; Deccan Herald; February 26, 2020).
- **Trump and Modi physically embrace but remain digitally divided** (Arindrajit Basu and Justin Sherman; The Diplomat; March 5, 2020).
- **Rumours, Misinformation and Self Verification of Facts** (Mira; The Wire; March 31, 2020).

# Access to Knowledge

Our Access to Knowledge programme comprises two projects. The Pervasive Technologies project under a grant from International Development Research Centre (IDRC) researches the complex interplay between low-cost pervasive technologies and intellectual property to encourage proliferation and development of such technologies as social good. The Wikipedia project, under a grant from Wikimedia Foundation, for growth of Indic language communities and projects through designing community collaborations, recruiting new editors and exploring innovative approaches to building projects.



# Copyright and Patent

## RESEARCH PAPER

- **Joining the Dots in India's Big-Ticket Mobile Phone SEP Litigation** (Rohini Lakshane and Shweta Mohandas; June 30, 2019).

## SUBMISSION

- **Comments on the Draft Copyright (Amendment) Rules, 2019 concerning Statutory Licensing** (Anubha Sinha; July 11, 2019). This submission presents comments to the Department for Promotion of Industry and Internal Trade ("DPIIT"), Ministry of Commerce and Industry pertaining to the notification G.S.R 393(E) containing the draft Copyright (Amendment) Rules, 2019 issued on 30th May 2019.

## Wikipedia

As part of the **project grant from the Wikimedia Foundation** we have reached out to more than 3500 people across India by organizing more than 100 outreach events and catalyzed the release of encyclopaedic and other content under the Creative Commons (CC-BY-3.0) license in four Indian languages (21 books in Telugu, 13 in Odia, 4 volumes of encyclopaedia in Konkani and 6 volumes in Kannada, and 1 book on Odia language history in English).

## NEWS

- **Bhuvana Meenakshi elected Mozilla Rep for July 2019** (Bhuvana Meenakshi was selected as a Rep of the Month (July 2019) by Mozilla for her active contributions).

## PROJECT PROPOSALS / REPORTS

- **Supporting Indian Language Wikipedias Program/Report** (Gopala Krishna A; April 5, 2019).
- **CIS-A2K proposal to Wikimedia Foundation for 2019-2020** (Ananth Subray; April 15, 2019)

## BLOG ENTRIES

- **Wikimedia projects orientation session at Tata Trust's Vikas Anvesh Foundation** (Subodh Kulkarni; April 9, 2019).
- **Indic Wikisource Speak: Sushant Savla** (Jayanta Nath; April 10, 2019).
- **SVG Translation Workshop at KBC North Maharashtra University** (Subodh Kulkarni; April 10, 2019).
- **Content Donation Sessions with Authors** (Subodh Kulkarni; April 10, 2019).
- **Indic Wikisource speak : Ajit Kumar Tiwari** (Jayanta Nath; April 11, 2019).
- **MoU between PAH Solapur University & CIS-A2K** (Subodh Kulkarni; May 31, 2019).

- What is Wikimedia Education SAARC Conference? (Sailesh Patnaik; June 5, 2019).
- Karavali Wikimedians at All India Radio, Mangaluru (Bharathesha Alasandemajalu; June 13, 2019).
- Wikimedia Education SAARC Conference 2019 (Subodh Kulkarni; June 22, 2019).
- SVG translation workshop Kannada (Gopala Krishna; June 29, 2019).
- Call for joining the Free Knowledge movement #Wikipedia #Wikimedia (Bhuvana Meenakshi; August 19, 2019).
- Analysis on the strategies of Mozilla and Wiki communities on gender gap aspects (Bhuvana Meenakshi; October 3, 2019).
- Project Tiger 2.0 (Suswetha Kolluru and Nitesh Gill; November 22, 2019). in English
- Project Tiger 2.0 (Suswetha Kolluru and Nitesh Gill; November 22, 2019). in Punjabi
- Project Tiger 2.0 (Suswetha Kolluru and Nitesh Gill; November 22, 2019). in Hindi
- Project Tiger 2.0 (Suswetha Kolluru and Nitesh Gill; November 22, 2019). in Telugu

#### **EVENTS ORGANIZED**

- Train-the-Trainer 2019 (Organized by CIS-A2K; Vishakhapatnam; May 31 - June 2, 2019).
- Wikimedia Education SAARC conference (Organized by CIS-A2K; Christ University; Bangalore; June 20 - June 22, 2019).

#### **MEDIA COVERAGE**

- Ahmedabad Wikisource Workshop (Vishwavihar; May 13, 2019).
- Youths come forward to augment Assamese Wikisource project (NE Now News; May 17, 2019).
- Wikipedia looks to ramp up its Indian language content (Tushar Kaushik; May 28, 2019).
- Project Tiger: Wikipedia ropes in locals to contribute articles in Indian languages (Tushar Kaushik; May 29, 2019).





# Openness

Our work in the Openness programme focuses on open data; especially open government data, open access, open education resources, open knowledge in Indic languages, open media, and open technologies and standards - hardware and software. We approach openness as a cross-cutting principle for knowledge production and distribution, and not as a thing-in-itself.

## **PUBLICATION**

- **Open Data and Land Ownership** (State of Open Data; Sumandro Chattapadhyay; May 22, 2019).

## **EVENT HOSTED**

- **Discussion on Open Standards with Bernd Erk and Jiten Vaidya** (CIS, Bangalore; June 20, 2019).

## **PARTICIPATION IN EVENTS**

- **Rootconf 2019** (Organized by Has Geek; NIMHANS Convention Centre, Bangalore; June 21 - 22, 2019). Karan Saini participated in the event.
- **Digital ID Forum 2019** (Organized by UNDP; Chulalongkorn University, Thailand; July 3, 2019). Sunil Abraham was a panelist.
- **Learning and Understanding the Frameworks of Rights at Work** (Organized by Kai Hsin Hung; IT for Change; Bangalore; July 13, 2019). Torsha and Mira attended the workshop.
- **FOSSCON India 2019** (Organized by KLS Gogte Institute of Technology; Belgaum; August 29 - 31, 2019). Bhuvana Meenakshi gave a talk on “The revolution of WebXR”.

# Internet Governance

As part of its research on privacy and free speech, CIS is engaged with two different projects. The first one (under a grant from Privacy International and IDRC) is on surveillance and freedom of expression (SAFEGUARDS). The second one (under a grant from MacArthur Foundation) is on restrictions that the Indian government has placed on freedom of expression online.

## Digital Identity

### ANNOUNCEMENT

- Announcement of a Three-Region Research Alliance on the Appropriate Use of Digital Identity (Amber Sinha; May 13, 2019).

### EVENT ORGANIZED

- Picking 'Wholes' - Thinking in Systems Workshop (Organized by CIS; New Delhi; May 27 - 28, 2019).

### RESEARCH PAPER

- Design and Uses of Digital Identities - Research Plan (Amber Sinha and Pooja Saxena; August 8, 2019).

### SUBMISSIONS

- The Appropriate Use of Digital Identity (Amber Sinha; August 8, 2019).
- Comments to the ID4D Practitioners' Guide (Amber Sinha; August 8, 2019).

### PARTICIPATION IN EVENT

- Holding ID Issuers Accountable, What Works? (Organized by Omidyar Network; RightsCon 2019; August 8, 2019).

## Gender

### BLOG ENTRIES

- Workshop on Feminist Information Infrastructure (Ambika Tandon; edited by Gurshabad Grover and designed by Saumyaa Naidu; May 9, 2019).
- Project on Gender, Health Communications and Online Activism with City University (Ambika Tandon; November 28, 2019).

### PARTICIPATION IN EVENTS

- Presentation to Amnesty International on researching the Future of Work (Organized by Amnesty International, New Delhi; July 18, 2019). Aayush Rathi and Ambika Tandon made a presentation on CIS research on Future of Work.
- Due Diligence Project FGD by UN Women (Organized by UN; UN House, New Delhi; October 11, 2019). Radhika Radhakrishnan attended a focused group discussion.

# Privacy

## RESEARCH PAPERS

- **FinTech in India: A Study of Privacy and Security Commitments** (Aayush Rathi and Shweta Mohandas; April 30, 2019).
- **An Analysis of the RBI's Draft Framework on Regulatory Sandbox for Fintech** (Vipul Kharbanda; May 8, 2019).

## SUBMISSIONS

- **CIS Response to Call for Stakeholder Comments: Draft E-Commerce Policy** (Arindrajit Basu, Vipul Kharbanda, Elonnai Hickok and Amber Sinha; April 10, 2019).
- **Comments on the National Digital Health Blueprint** (Samyukta Prabhu, Ambika Tandon, Torsha Sarkar and Aayush Rathi; August 7, 2019).
- **Submission to Global Commission on Stability of Cyberspace on the definition of Cyber Stability** (Arindrajit Basu and Elonnai Hickok; September 11, 2019).
- **Comments to the United Nations Human Rights Commission Report on Gender and Privacy** (Aayush Rathi, Ambika Tandon and Pallavi Bedi; October 24, 2019).
- **Comments to the Code on Social Security, 2019** (Aayush Rathi, Amruta Mahuli and Ambika Tandon; October 27, 2019).

## PARTICIPATION IN EVENTS

- **The Phantom Public: The Role of Social Media in Democracy** (Organized by Ambedkar University; New Delhi; April 3, 2019).
- **(re) conference** (Organized by CREA; New Delhi; April 10 - 12, 2019).
- **Data for Development: Mapping key considerations for policy and practice in India** (Organized by Azim Premchand University; April 24, 2019). Arindrajit Basu delivered a talk.
- **Data Empowerment And Protection Architecture (DEPA) Workshop** (Organized by iSPIRT Foundation; May 18, 2019). Pranav Manjesh Bidare attended the workshop.
- **ABLI Privacy Workshop** (Organized by Asian Business Law Institute; Singapore; May 21 - 22, 2019). Elonnai Hickok participated in the event.
- **HillHacks 2019** (Organized by HillHacks; Bir, Himachal Pradesh; May 24 - 26, 2019). Karan Saini was a speaker.
- **ITD seminar on Competition** (Organized by International Institute for Trade and Development; Bangkok; June 24 - 26, 2019). Pranesh Prakash was a resource person and also a speaker in the session on Consumer Protection and Digital Rights- Defining Welfare and Fair Competition.
- **BIS LITD 17 meeting** (Organized by Bureau of Indian Standards; New Delhi; July 3, 2019). Gurshabad Grover attended the sixteenth meeting of the Information Systems Security and Biometrics Section Committee (LITD17).
- **Facebook Data for Good in Bangalore** (Organized by Facebook; Indian Institute of Science, Bangalore; July 25, 2019).
- **Roundtable with the WhatsApp leadership** (Organized by WhatsApp; Mountbatten,

The Oberoi, New Delhi; July 26, 2019). Will Cathcart, WhatsApp's new global head, visited India and invited Sunil Abraham for a discussion.

- **Facebook Data for Good in New Delhi** (Organized by Facebook; University of Chicago Center, New Delhi; July 29, 2019).
- **Digital ID Forum 2019** (Organized by UNDP; Chulalongkorn University, Thailand; July 3, 2019). Sunil Abraham was a panelist.
- **Policy Design Jam** (Organized by Whatsapp and ISPP; Qutub Institutional Area, New Delhi; September 16, 2019). Pallavi Bedi, Akash Sheshadri and Anubha Sinha attended the event.
- **Conceptualising India's Digital Policy Vision** (Organized by National University of Juridical Sciences; National University of Juridical Sciences; Kolkata; September 18, 2019).
- **All Partners Meeting** (Organized by Partnership on AI; London; September 26 - 27, 2019). Elonnai Hickok represented CIS as the co-chair for the Labour and Economy Expert Group.
- **BSides Delhi 2019 Security Conference** (Organized by Bsidel Delhi; New Delhi; October 11, 2019).
- **ISO/IEC JTC 1 SC 27 meetings** (Organized by ISO/IEC JTC; Paris; October 14 - 18, 2019). Gurshabad Grover participated in the meetings.
- **UN Special Rapporteur on the Right to Privacy Consultation on 'Privacy and Gender'** (Organized by UN Special Rapporteur; New York University, New York; October 30 - 31, 2019).
- **IETF106** (Organized by IETF; Singapore; November 16 - 22, 2019). Gurshabad Grover participated in the meeting.

#### **BLOG ENTRY**

- **The Impact of Consolidation in the Internet Economy on the Evolution of the Internet** (Akriti Bopanna and Gurshabad Grover; July 3, 2019). The blog post was edited by Swaraj Barooah, Elonnai Hickok and Vishnu Ramachandran. Swagam Dasgupta provided inputs.

#### **EVENT ORGANIZED**

- **Setting the Agenda: A Behavioural Science approach to Data Privacy** (Organized by Centre for Social Behaviour Change; Ashoka University and the Busara Center for Behavioral Economics, Vasant Vihar, New Delhi). Amber Sinha attended the meeting.

# Artificial Intelligence

## PARTICIPATION IN EVENTS

- **Policy Lab on Artificial Intelligence & Democracy** (Organized by Tandem Research, in partnership with Microsoft Research and Friedrich-Ebert-Stiftung; Bangalore; April 2-3, 2019). Shweta Mohandas participated in the event.
- **Society 5.0 and Artificial Intelligence with a Human Face** (Organized by Indian Council for Research on International Economic Relations; India Habitat Centre, New Delhi). Radhika Radhakrishnan attended a roundtable consultation.
- **AI for Good Workshop** (Organized by Swissnex India and Wadhvani AI; Bangalore; May 22, 2019).
- **MWC19 Shanghai AI and Trust in APAC and China** (Organized by Digital Asia Hub; MWC Shanghai; June 27, 2019). Sunil Abraham made a presentation at the summit on AI and Trust in APAC and China. Sunil was a speaker in the panel 'Framing AI for Digital Upstarts'.
- **Roundtable Discussion on "The Future of AI Policy in India"** (Organized by Indian Council for Research on International Economic Relations, New Delhi; July 1, 2019).
- **Emerging AI technology in health care in India, health equity and justice: Critical reflections and charting out way forward** (Organized by HEaL (Health, Ethics, and Law Institute of Training, Research and Advocacy) of FMES (Forum for Medical Ethics Society) in collaboration with CPS (Centre for Policy Studies), Indian Institute of Technology-Bombay; July 13, 2019). Radhika Radhakrishnan participated in a roundtable discussion on "Emerging AI technology in health care in India, health equity and justice: Critical reflections and charting out way forward".
- **Emergence of Chinese Technology: Rising stakes for innovation, competition and governance** (Organized by Omidyar Network in partnership with the Esya Centre; New Delhi; August 12, 2019). Arindrajit Basu attended the event.
- **Impact of Industrial Revolution 4.0 - IT and Automotive Sector in India** (Organized by the Dialogue and Friedrich-Ebert-Stiftung; Bangalore; August 21, 2019). Aayush Rathi attended the event.
- **Policies for the Platform Economy** (Organized by IT for Change; India Habitat Centre; New Delhi; August 30, 2019). Amber Sinha and Anubha Sinha were panelists.
- **AI in Healthcare** (Organized by Center for Information Technology and Public Policy and International Institute of Information Technology; Bangalore). Radhika Radhakrishnan gave a talk.
- **Responsible AI Workshop** (Organized by Facebook; September 17, 2019; New Delhi). Sunil Abraham participated in the meeting.
- **Constitutionalizing Artificial Intelligence** (Organized by Constitutional Law Society; National University of Juridical Sciences; Kolkata). Arindrajit Basu delivered a lecture.
- **NIPFP Seminar on Exploring Policy Issues in the Digital Technology Arena** (Organized by Indian Institute of Advanced Study; Shimla; October 10 - 11, 2019). Anubha Sinha participated in this seminar as a discussant.
- **AI Opera- AI as a total work of art** (Organized by Goethe; Bangalore; October 11, 2019). Shweta Mohandas and Mira were panelists.



- **Launch of Google-UNESCAP AI Report** (Organized by Google; United Nations Convention Centre; Bangkok; October 16, 2019). Arindrajit Basu was a speaker.
- **Discussion at CyFy on Technology, Policy and National Security: Building 21st Century Curricula in India's Law Schools** (Organized by Centre for Communication Governance, National Law University, Delhi and Observer Research Foundation; Villa Medici, Taja Mahal Hotel, Man Singh Road, New Delhi; October 20, 2019).

#### **BLOG ENTRY**

- **AI for Good** (Shweta Mohandas and Saumyaa Naidu; edited by Elonnai Hickok; October 9, 2019).

## **Cyber Security**

#### **ESSAY**

- **The retreat of the data localization brigade: India, Indonesia and Vietnam** (Arindrajit Basu; The Diplomat; January 10, 2020)

#### **SUBMISSIONS**

- **CIS submission on NCSC** (Elonnai Hickok and Arindrajit Basu; January 13, 2020).
- **CIS Submission on NODE Consultation** (Aman Nair, Elonnai Hickok and Arindrajit Basu; March 31, 2020).

#### **RESEARCH PAPERS**

- **International Cooperation in Cybercrime: The Budapest Convention** (Vipul Kharbanda; April 29, 2019).
- **Introducing the Cybersecurity Visuals Media Handbook** (Handbook concept, content and design by: Padmini Ray Murray and Paulanthony George; Blog post authored by: Saumyaa Naidu and Arindrajit Basu; With inputs from: Karan Saini; Edited by: Shweta Mohandas; November 15, 2019).

#### **PARTICIPATION IN EVENTS**

- **Shining light into darkness: Encouraging greater transparency of government offensive practices in cyberspace** (Organized by Rights Con; Tunis; June 12, 2019). Sunil Abraham participated in a conversation on encouraging greater transparency of government offensive practices in cyberspace.
- **The Global Nature of Cybersecurity in a Changing World** (Organized by Hewlett Foundation; San Diego; June 20 - 22, 2019).
- **Workshop on Cyber-Ethics: Values-driven Innovative Solutions** (Organized by Embassy of Switzerland; Bangalore; June 28, 2019). Arindrajit Basu moderated a discussion on Cyber-Ethics.

## **BLOG ENTRIES**

- **Before cyber norms, let's talk about disanalogy and disintermediation** (Pukhraj Singh; November 15, 2019).
- **Cryptocurrency Regulation in India** (Vipul Kharbanda; March 5, 2020).
- **RBI Ban on Crypto Currency not backed by any data or statistics** (Vipul Kharbanda; March 5, 2020).

## **Free Speech and Expression**

### **SUBMISSION**

- **CIS Response to ICANN's proposed renewal of .org Registry** (Akriti Bopanna; April 28, 2019).

### **EVENT ORGANIZED**

- **Internet Speech: Perspectives on Regulation and Policy** (Organized by CIS; India Habitat Centre, New Delhi; April 5, 2019).

### **PARTICIPATION IN EVENTS**

- **Stockholm Internet Forum 2019** (Organized by Stockholm Internet Forum 2019; Stockholm; May 16 - 17, 2019). Gurshabad Grover was a panelist in the discussion on 'Influencing Internet Governance' co-organised by Article 19.
- **Consilience 2019** (Organized by the Law and Technology Society; National Law School of India University, Bangalore; May 25, 2019). Gurshabad Grover was a panelist on the discussion on 'Online Content Regulation: Global Perspectives and Solutions'.
- **ICANN Masterclass** (Organized by ICANN, Bangalore; June 19, 2019). Akriti Bopanna attended the event.
- **ICANN 65** (Organized by ICANN; Morocco; June 24 - 27, 2019). Akriti Bopanna attended the event.
- **13th European Summer School on Internet Governance** (Organized by European Summer School on Internet Governance; Meissen; July 13 - 20, 2019). Akriti Bopanna attended the school.
- **ICANN 65 De-briefing Meeting** (Organized by Indian Council for Research on International Economic Relations; July 16, 2019). Akriti Bopanna remotely presented on human rights related developments that took place at the Marrakech meeting, over the course of the 4 days.
- **Packets, net neutrality and gaming public policy outcomes** (Organized by Has Geek; Bangalore; August 15, 2019). Gurshabad Grover attended Prof. Vishal Misra's lecture on net neutrality.

- **Roundtable Discussion on Intermediary Liability** (Organized by SFLC and the Dialogue; New Delhi; October 17, 2019). Tanaya Rajwade participated in a roundtable discussion on intermediary liability.

#### **BLOG ENTRIES**

- **DIDP #33 On ICANN's 2012 gTLD round auction fund** (Akriti Bopanna; April 4, 2019).
- **DIDP #34 On granular detail on ICANN's budget for policy development process** (Akriti Bopanna; July 6, 2019).
- **Reliance Jio is using SNI inspection to block websites** (Gurshabad Grover and Kushagra Singh, and edited by Elonnai Hickok; November 7, 2019).

#### **RESEARCH PAPERS**

- **Examining the Constitutionality of the Ban on Broadcast of News by Private FM and Community Radio Stations** (Gurshabad Grover, Torsha Sarkar, Rajashri Seal and Neil Trivedi; September 27, 2019).
- **Comparison of the Manila Principles to Draft of The Information Technology [Intermediary Guidelines(Amendment) Rules], 2018** (Akriti Bopanna and Gayatri Puthran; September 30, 2019).
- **Designing a Human Rights Impact Assessment for ICANN's Policy Development Processes** (Collin Kure, Akriti Bopanna and Austin Ruckstuhl; October 3, 2019).
- **Department of Labour Interaction Program: Online Business Platforms** (Bharath Gururagavendran; edited by Ambika Tandon; October 29, 2019).

#### **SUBMISSIONS / ANALYSIS**

- **Through the looking glass: Analysing transparency reports** (Torsha Sarkar, Suhan S and Gurshabad Grover; October 30, 2019).
- **CIS' Comments to the Christchurch Call** (Tanaya Rajwade, Elonnai Hickok, and Raouf Kundil Peedikayil; October 31, 2019).

# Researchers at Work

The Researchers at Work (RAW) programme is an interdisciplinary research initiative driven by an emerging need to understand the reconfigurations of social practices and structures through the Internet and digital media technologies, and vice versa. It aims to produce local and contextual accounts of interactions, negotiations, and resolutions between the Internet, and socio-material and geo-political processes.

## ARTICLE

- [Introducing our Evaluation Framework](#) (Shruti Trikanad; Digital ID; January 22, 2020).

## RESEARCH PAPERS

- [Governing ID: A Framework for Evaluation of Digital Identity](#) (Vrinda Bhandari, Shruti Trikanad, and Amber Sinha, Kaliya Young, Yesha Tshering Paul, Sunil Abraham and Akash; Digital ID; January 22, 2020).
- [Governing ID: Use of Digital ID for Verification](#) (Shruti, Amber Sinha, Pooja, Akash; Digital ID; January 30, 2020).
- [Governing ID: India's Unique Identity Programme](#) (Vrinda, Amber, Pooja, Akash; Digital ID; February 6, 2020).
- [Governing ID: Use of Digital ID in the Healthcare Sector](#) (Shruti, Amber, Pooja, Akash; Digital ID; February 13, 2020).
- [Governing ID: Kenya's Huduma Namba Programme](#) (Amber, Shruti, Diana, Pooja, Akash; February 27, 2020).
- [Governing ID: Use of Digital Identity for e-KYC in India](#) (Yesha, Amber, Pooja, Akash; Digital ID; March 5, 2020).

## ESSAYS

- [Can data ever know who we really are?](#) (Zara Rahman; May 22, 2019).
- [Data bleeding everywhere: a story of period trackers](#) (Sadaf Khan; June 11, 2019). This was written for and published as part of the Bodies of Evidence collection of Deep Dives.

## ANNOUNCEMENTS

- [Call for Essays: Studying Internet in India](#) (Sumandro Chattapadhyay; April 6, 2019).
- [Digital mediation of domestic and care work in India: Project Announcement](#) (Ambika Tandon and Aayush Rathi; October 1, 2019).
- [State of the Internet's Languages 2020: Announcing selected contributions!](#) (P.P. Sneha; November 1, 2019).

## BLOG ENTRIES

- [The Internet in the Indian Judicial Imagination](#) (Divij Joshi; April 21, 2019).
- [#ObjectsOfDigitalGovernance](#) (Khetrimayum Monish Singh, Rajiv K. Mishra, and Vidya Subramanian; April 21, 2019).
- [War Driving in Lhasa Vegas](#) (Oxblood Ruffin; May 11, 2019).
- [#DotBharatAdoption](#) (Dr. Amit Prakash, K.A. Dayanand, Dr. Srinivasan Ramani, Dr. V. Sridhar, and Vivek Pani; May 11, 2019).
- [#MaterialisingWriting](#) (Dibyadyuti Roy, Indrani Roy, Padmini Ray Murray, and Puthiya

Purayil Sneha; May 21, 2019).

- **The Shadow that Social Media Casts: The Doubled Offlines of Online Sociality** (Karandeep Mehra; May 21, 2019).
- **Patreon: Understanding the Intersection of Art, Artiste, and Labour** (Upasana Bhattacharjee; June 1, 2019).
- **#ArchivesForStorytelling** (Aliyeh Rizvi, Bhanu Prakash, Dinesh, Malini Ghanathe, and Venkat Srinivasan; June 1, 2019).
- **#DigitalIdentities** (Anjali K Mohan, Harish Boya, Janaki Srinivasan, Khetrinmayum Monish Singh, and Sarita Seshagiri; June 11, 2019).
- **Studying the Internet Discourse in India through the Prism of Human Rights** (Deva Prasad M.; July 1, 2019).
- **#DigitalPedagogies** (Ashutosh Potdar, Maya Dodd, Nidhi Kalra, and Ravikant Kisana; July 1, 2019).
- **#OpenAccessScholarlyPublishing** (Abhishek Shrivastava, Dibyaduti Roy, and Nirmala Menon; July 11, 2019).
- **#RenarrationWeb** (Anuja Mirchandaney, Deepak Prince, Dinesh and Shalini; July 23, 2019).
- **#HookingUp** (Akhil Kang, Christina Thomas Dhanraj, Dhruvo Jyoti, and Gowthaman Ranganathan; August 1, 2019).
- **Call for Contributions and Reflections: Your experiences in Decolonizing the Internet's Languages!** (P.P. Sneha; August 7, 2019).
- **Simiran Lalvani - Workers' fictive kinship relations in Mumbai app-based food delivery** (Sumandro Chattapadhyay; August 16, 2019).
- **Mobilizing Online Consensus: Net Neutrality and the India Subreddit** (Sujeet George; October 1, 2019).
- **How Green is the Internet? The Good, the Bad, and the Ugly** (Aishwarya Panicker; October 11, 2019).

#### **EVENTS ORGANIZED**

- **#MappingDigitalLabour - Panel discussion on platform-work in Mumbai and New Delhi** (CIS, Bangalore; July 19, 2019). Watch the session recording video [here](#).
- **Domestic Work in the 'Gig Economy'** (Organized by CIS and Domestic Workers' Rights Union; November 16, 2019; Student Christian Movement of India, Mission Road, Bangalore).

#### **PARTICIPATION IN EVENTS**

- **Unpacking video-based surveillance in New Delhi** (Organized by the University of Manchester, England; June 14, 2019). Aayush Rathi and Ambika Tandon presented their research on 'Urban Data, Inequality and Justice in the Global South'.
- **Workshop on Archival Standards and Digitisation Workflow** (Organized by British Library; NCBS; Bangalore; August 19 - 20, 2019). P.P. Sneha attended the event.

- **Decolonizing the Internet's Languages 2019 - From Conversations to Actions** (Organized by Whose Knowledge; London; October 23 - 24, 2019). P.P. Sneha participated in this meeting.

#### **ESSAYS ON #LIST - SELECTED ABSTRACTS**

- In response to a recent call for essays that social, economic, cultural, political, infrastructural, or aesthetic dimensions of the #List, we received 11 abstracts. Out of these, we have selected 4 pieces to be published as part of a series titled #List on the r@w blog.

#### **CASE STUDY**

- **Big Data and Reproductive Health in India: A Case Study of the Mother and Child Tracking System** (Ambika Tandon; October 17, 2019).

# Telecom

CIS is involved in promoting access and accessibility to telecommunications services and resources, and has provided inputs to ongoing policy discussions and consultation papers published by TRAI. It has prepared reports on unlicensed spectrum and accessibility of mobile phones for persons with disabilities and also works with the USOF to include funding projects for persons with disabilities in its mandate:



## ARTICLES

- **Delayed Cash Flows and NPAs** (Shyam Ponappa; Business Standard; April 3, 2019 and Organizing India Blogspot; April 4, 2019).
- **Democracy, Digital India and Networks** (Shyam Ponappa; Organizing India Blogspot; May 1, 2019).
- **5G Aspirations and Realities** (Shyam Ponappa; Organizing India Blogspot; June 6, 2019).
- **Fix Problems Before Complete Failure** (Shyam Ponappa; Organizing India Blogspot; July 4, 2019).
- **Traffic Rules, Mindset and On-Time Payments** (Shyam Ponappa; September 4, 2019).
- **The Telecom Crisis is an NPA Problem** (Shyam Ponappa; Business Standard and Organizing India Blogspot; November 7, 2019).

## PARTICIPATION IN EVENTS

- **BIF conference on “Substitutability of OTT Services with Telecom Services & Regulation of OTT Services** (Organized by Broadband India Forum; Taj Mahal Hotel, Mansingh Road, New Delhi; April 5, 2019). Anubha Sinha was a panelist at a BIF conference on “Substitutability of OTT Services with Telecom Services & Regulation of OTT Services”.
- **Live [Closed]: TRAI Open House Discussion on OTT Regulation - Delhi** (Organized by TRAI; New Delhi; May 20, 2019). Anubha Sinha attended the event.

## IT / Information Technology

A research on the usage of systems (computers and telecommunications) for storing, retrieving and sending information as well as the IT Act.

## PARTICIPATION IN EVENTS

- **Leveraging Web Application Vulnerabilities for Reconnaissance and Intelligence Gathering** (Organized by Has Geek; GRD College of Science, Coimbatore; July 5, 2019). Karan Saini gave a talk at the JSFoo Conference.
- **Cyber Policy 2.0** (Organized by National Law University; Bangalore; August 17, 2019). Arindrajit Basu was a speaker.

## RESEARCH PAPERS

- **Future of Work in the ASEAN** (Aayush Rathi, Vedika Pareek , Divij Joshi and Pranav Bidare; edited by Elonnai Hickok and Ambika Tandon with research assistance from Sankalp Srivastava and Anjanaa Aravindan; August 31, 2019).
- **Draft Security Standards for The Financial Technology Sector in India** (Vipul Kharbanda with inputs from Prem Sylvester; November 15, 2019).
- **Blockchain: A primer for India** (Anusha Madhusudhan; with inputs from Karan Saini

and Mira Swaminathan; edited by Elonnai Hickok, Siddharth Sonkar and Aayush Rathi; November 18, 2019).

**BLOG ENTRY**

- **Event Report: Consultation on Draft Information Technology (Fintech Security Standards) Rules** (Anindya Kanan; reviewed and edited by Vipul Kharbanda, Elonnai Hickok and Arindrajit Basu; November 12, 2019).

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