

CETyS

2021

Annual report Management Report

CONTENTS

Letter P.2 / About Us P.3 / Educational programs P.5 /
Projects and publications P.7 / Documents and Activities P.11 /
CETyS Digital Community P.16



Letter

Dear all,

We are pleased to share with you the 2021 annual report of the Center for Studies in Technology and Society of the University of San Andrés.

This year we continued to develop the three pillars of the Center's work: education, research and extension. In educational matters, this year the 7th edition of the Internet Law and Communications Technology Program (DITC) was held in virtual format, with the participation of students from five Latin American countries. This pioneering course in the region, trains professionals in the most relevant and current legal and public policy aspects of communications technology. Likewise, the 4th edition of the Diploma in Internet Governance (2020-2021) with participants from eight countries in the region ended. In this edition, due to the pandemic, the program was redesigned for a virtual format and elective thematic laboratories on legal aspects, digital economy and development, and cybersecurity governance were incorporated. In addition, the proposal was completed with synchronous and asynchronous classes, activities on the virtual campus and discussion forums. Finally, a totally asynchronous innovative program was launched, the Diploma in Regulation of Digital Technologies, which is adapted to the needs of each participant from a regional point of view together with international teachers and experts.

On the other hand, CETYS continues to consolidate itself as a regional research space. During this year the investigation "Readiness of the judicial sector for artificial intelligence in Latin America" was completed, which analyzes the current use of AI in the judicial sector and evaluates its potential application to address its key needs and challenges.

Furthermore, the project "Literacy in data. Skills for an expanded digital citizenship" carried out its workshops in secondary schools in Buenos Aires, Santiago and Montevideo to promote working skills with open data. The GUIA project that assesses aspects of AI ethics, policies and governance in the region also continues to be developed. In addition, CETyS was selected by UNESCO to carry out the evaluation of Internet Universality Indicators in Argentina to analyze the national Internet environment and develop policy recommendations and practical initiatives that allow the enhancement of said environment and promote an Internet based on human rights.

Finally, during 2021 various publications were made: the second edition of the Latin American Journal of Economy and Digital Society was launched, "Thinking about ICTs on the road to the post-pandemic", the book "Data Protection. Doctrine and jurisprudence" and a special volume related to copyright on the Internet. In addition, the publication of newsletters from the Artificial Intelligence area and the Digital Infrastructure Laboratory continued.

We wish you the best for 2022.



Carolina Aguerre



Pablo Palazzi

2 About Us



The CETyS is an academic and multi-disciplinary space for research, education and information about the policies and development of digital processes in the public realm. It is a center focused on Latin America based in the [University of San Andrés](#) (UdeSA) in Buenos Aires, Argentina.

In 2021, researchers, professionals and students of different disciplines worked together on:

3

Educational Programs:



Communication Law and
Technology Program



Degree in Internet Governance



Degree in Digital
Technologies Regulation

5

Research Areas:



Digital Citizenship



Internet ecosystem



Fintech



Artificial Intelligence



**Digital Infrastructure
Laboratory**

Team:



Carolina Aguerre

Directorate



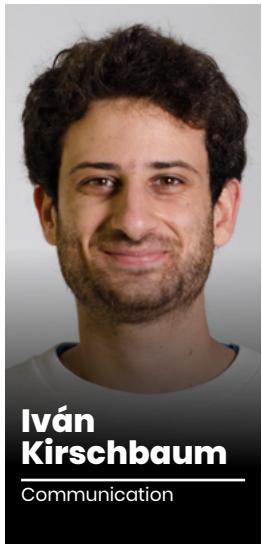
Pablo Palazzi

Directorate



Fernanda Martinez

Executive Director



Iván Kirschbaum

Communication



Delfina Ferracutti

Communication and academic program assistant

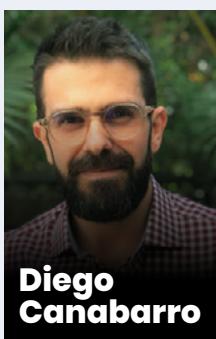
Especialists:



Gonzalo Bustos Frati



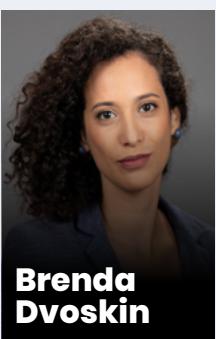
Sebastián Cabello



Diego Canabarro



Carolina Gruffat



Brenda Dvoskin



Fernanda Viecens

Researchers:

(Researchers in 2021 projects)

- Sofía Alamo
- Carlos Amunátegui Perelló
- Matías Aranguis
- Sebastián Cabello
- Carolina Caeiro
- Daniel Castaño
- Delfina Ferracutti
- Bruno Gorgone
- Iván Kirschbaum
- Julio Lens
- Maia Levy Daniel
- Raúl Madrid
- María Soledad Maqueo
- Olivia Mendoza Enriquez

- Santiago Mora,
- Jimena Moreno
- Juan Ortíz Freuler
- César Rentería
- Silvana Rivero
- Sandra Segredo
- Fernando Vargas

3 Educational programs



During this year, two educational programs that are leaders in the region and are delivered by national and international professors and experts with prestigious careers were carried out.

Moreover, a new innovative proposal was added.

Sixth Edition of the Communication Law and Technology Program ([DITC](#))

Director: Pablo Palazzi

The seventh edition of the [DITC](#), took place in 2021; its objective is to train professionals of different disciplines in the most relevant and current legal and public policy aspects for companies and consultants acting in the industry of internet, digital technology and telecommunications.

This program updates its content to consider the challenges of an ever changing topic, with an increasingly deeper impact on different areas of the economy, the State and the political and social life. The topics addressed during the course dealt with the regulation of convergent communication infrastructure, internet politics and economics, convergent communication, fintech, artificial intelligence, cybercrime, access to information and protection of personal data, intellectual property and internet, information philosophy and defense of competition in digital markets.

The faculty members were Oscar González, Santiago Gini, Santiago Mora, Micaela Mantegna, Carla Delle Donne, Santiago Vallés, Pablo Palazzi, Karina Pedace, Tomás Balmaceda, Fernanda Viecens, Marcela Pallero, Jorge Litvin, and guest specialists.

Students from Argentina, Costa Rica, Uruguay and the Dominican Republic participated in this edition.



Fourth Edition of the Degree in Internet Governance (DiGI)

Director: Carolina Aguerre

Scientific Committee: Carolina Aguerre, Diego Canabarro y Judith Mariscal

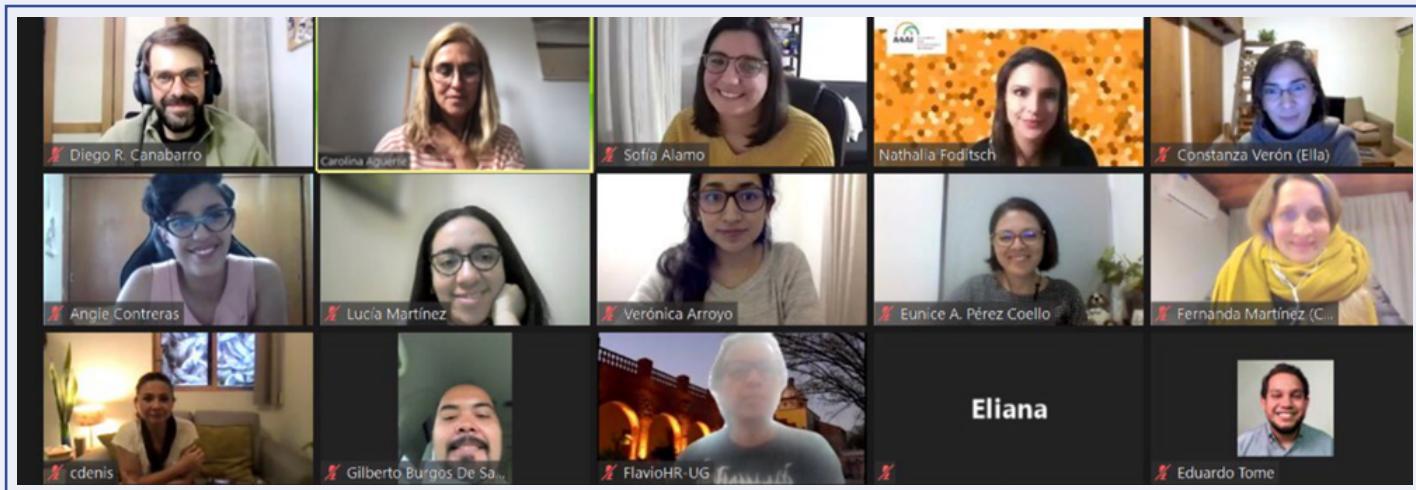
This fourth edition, organized together with the Digital LatAm Center (Mexico), showcased an innovative format divided into four blocks: a) Foundations cycle, b) Master classes, c) Thematic LABs, and d) Synchronic intensive weeks.

The faculty members were Ernesto Flores Roux, Jeff Wilbur, Francesca Musiani, Edson Prestes, Nathalia Foditsch, Ignacio Alvarez Hamelin, Patrícia Vargas León, Raquel Gatto, Hernán

Galperín, Danilo Doneda, Paula Vargas, Solange Maqueo, Luca Belli, Eduardo Bertoni, Natalia Enciso, Daniel Castaño, and Alejandro Pisanty.

Students from Argentina, Brazil, Chile, Colombia, Costa Rica, Honduras, Mexico, Paraguay and Peru took part in this edition.

[Learn more >>](#)



Degree in Digital Technology Regulation (RTDi).

The Degree in Digital Technology Regulation is a pioneering program in virtual education that offers excellence training in topics dealing with the regulation of digital technologies. The program has a regional outlook and it addresses problems and cases of Latin America and the Caribbean, together with international professors and

experts. The virtual format adapts to the agenda and needs of each attendee. Additionally, it encourages the participation and interaction of students from all over the region.

[Learn more >>](#)

4 Projects and publications



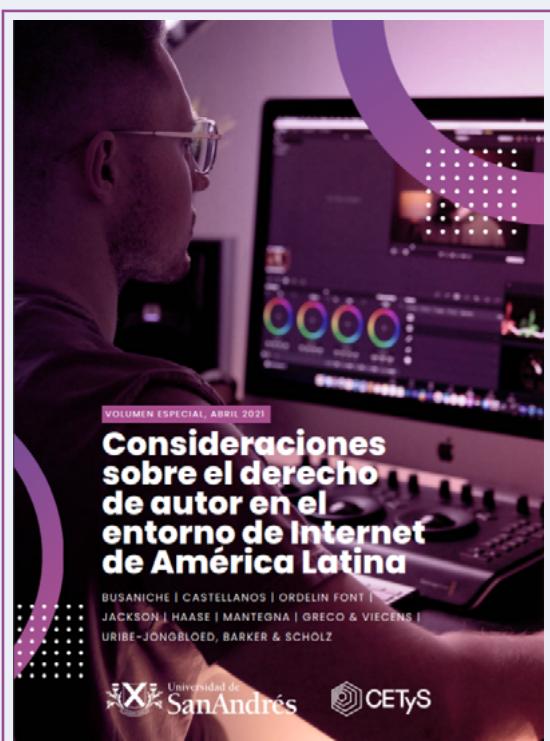
Responsibility of Intermediaries on Internet

The CETyS was chosen by the Latin American Association of Internet (ALAI) and the Inter-American Development Bank (BID) to publish a document within the framework of the "[Program for the Promotion of Digital Commerce for South America](#)". The work assessed the similarities and differences of the provisions of Argentina, Chile and Mexico regarding the responsibility of intermediaries, intellectual property and digital content management to make recommendations that boost digital commerce in the region, and to foster the creation of a regional digital market.

[Access the document >>](#)



Copyright Publication



The research area of the «[Internet Ecosystem](#)» at the CETyS, together with the Master in Innovation and Intellectual Property of the University of San Andrés (UdeSA) and the center for Innovation and Intellectual Property (CPINN), launched a special edition about the latest discussions on the exercise of copyright as related to the digital ecosystems of information and communication.

This edition aimed at depicting different concept and regulatory paths, as well as academic and empirical positions, especially about the exercise of copyright as related to progress of the digital systems of information and communication.

The presentations included Latin American and European authors and researchers from the following countries: Germany, Argentina, Brazil, Chile, Colombia, Peru, United Kingdom and Uruguay.

[Access the document >>](#)

Publication of the Second Edition of the Latin American Magazine of Digital Economy and Society

The Latin American Magazine of Digital Economy and Society (RLES) is a joint initiative of the CETyS, the Digital LatAm Center and the Center for Studies and Telecommunications of Latin America.

This second edition, called «Thinking about the ICTs in the Path of the Post-pandemic» addresses different challenges related to the incorporation of digital technology in everyday life in the last years and during the pandemic in Latin America. Articles focus on key topics for the region, such as network neutrality, artificial intelligence and public policies, e-proctoring, spatial development, cyber security and digital transformation policies.

[See articles >>](#)



GulA

In its second edition, the GulA project seeks to understand whether an effective relationship has been established between ethical principles and human rights in the design and use of AI-based technology in the region, the shapes it assumes, and the obstacles that hinder its adoption. To that end, it is necessary to understand how principles, standards and policies concerning AI are interpreted and assimilated by the different players and citizens of the region, and examine its applicability and the distance between principles and their realization in technology solutions, as well as the barriers that may stem from regulations.

For that reason, it called on the publication of articles dealing with these issues.

[Website >>](#)

Data Literacy at School. Skills for an Extended Digital Citizenship

This year, workshops on data about public policy topics were held within the framework of the project "Data Literacy. Skills for an Extended Digital Citizenship", in the context of the [Education Sectoral Endowment](#) of the Ceibal Foundation and the National Agency of Investigation and Innovation (ANII), in its modality "Digital Inclusion: Education with New Horizons".

The project seeks to promote working skills with open data and visualizations in high schools. It starts off the proposition that a real and effective inclusion of young people in the future world requires broadening the notion of digital literacy and including new competencies for the analysis of data and its reuse in solutions that intend to respond to local problems with a gender perspective. Such problems are related to health, environment, human rights and culture, in the context of COVID-19.

The experience took place in schools in the City of Buenos Aires, Santiago de Chile and Montevideo, and it is part of a research project about the development of new competencies related to work with data as a key dimension of digital citizenship.

[More information >>](#)

Proyecto que busca dar herramientas para usar datos

Utilizamos **bases de datos abiertas**, publicadas por los gobiernos y ONGs, para repensar las políticas públicas

ITP

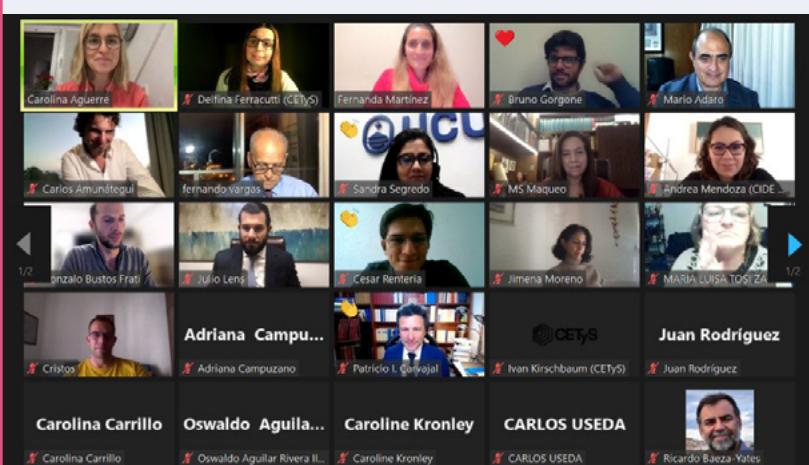
- ¿Qué tipo de decisiones se podrían tomar a partir de los datos?
- Desarrollar qué se podría hacer con los datos.
- A quién le puede servir esta información

Servirán para considerar el gasto y el presupuesto en las planificaciones de un personaje político, de tal manera que se tiene constancia de los recursos y cuánto dinero se mueve en aquel sector. Por otra parte, permite determinar qué sectores reciben más atención del público, esto por la cantidad de dinero que ingresa y se ejecuta en el lugar, demostrando las preferencias de la ciudadanía por un lugar en específico.

CETyS Universidad de San Andrés Fundación Ceballos

Alfabeticidad en datos

Assessment of the Potential Impact of Artificial Intelligence in the Latin American Judicial System



When it comes to the responsible adoption of artificial intelligence technologies in judicial processes of the region, the Artificial Intelligence area of the CETyS publishes the results of the research "Preparedness of the Judicial Sector for Artificial Intelligence in Latin America".

The publication has five research documents made by a multi-disciplinary team of 11 researchers of the region who analyze, specifically, the cases of Argentina, Chile, Colombia, Mexico and Uruguay. The documents identify the current use of AI and related digital technologies by the judicial sector, an assessment of its potential implementation to address its key needs and challenges, and also the discussion about matters that are critical for the design and implementation related to equity, responsibility and judicial independence.

nologies by the judicial sector, an assessment of its potential implementation to address its key needs and challenges, and also the discussion about matters that are critical for the design and implementation related to equity, responsibility and judicial independence.

The prologue of the work deals with the justification and description of the problem, on the one hand, and the main dimensions of the analytical framework used, which considers six dimensions and 50 indicators, on the other hand.

On Thursday, September 9th, an event took place to launch the project, and researchers, judicial operators and relevant players from each of the countries mentioned spoke at that event.

[See the video >>](#)[See the documents >>](#)

UNESCO

This year, CETyS was chosen by UNESCO to make an assessment about "[Universal Indicators of Internet](#)" in Argentina. This instrument was prepared by means of a global, open and inclusive process where different players participated between 2017 and 2018.

It is a resource whose goals are: i) to know the national environment of internet and its policies, ii) to assess that environment and those policies as related to the implementation of the principles that promote an internet based on human rights, and iii) to develop recommendations on policies and practical initiatives that make it possible to meet those goals. The assessment focuses on five dimensions: Law, openness, accessibility, participation of multiple players, and cross-cutting categories (gender, childhood, sustainable development, trust and safety, and ethical aspects).



5 Documents and Activities

Round Tables about Copyright on Internet

The CETyS is leading a cycle of round tables with centers of the region whose ultimate aim is to propose a series of principles shared with several academic centers to rethink copyright in the digital environment in Latin America, which conveys an internet model that is functional for the needs, objectives and specificities of the regional digital context.

The Center for Internet and Society (IUSR) of the Del Rosario University (Colombia), the ITS (Brazil), The Digital LatAm Center (Mexico), the Center for Studies on Intellectual Property and Innovation (Argentina) and the Center for Studies on Technology and Society (Argentina) take part of the project.

NL MI Lab

The Artificial Intelligence area of the CETyS kept publishing its weekly newsletter *Machine Intelligence Lab* during 2021. The publication informs about the latest global trends and news regarding Artificial Intelligence and its impact on society. So far, the newsletter has published 90 editions and it has about one thousand subscribers.



[Subscribe >>](#)

Publication of the NL of the INDILAB

In February, the Digital Infrastructure Lab (InDi Lab) published its second newsletter, with unreleased articles by experts of the region. The InDi Lab is a space for study, research and information about public policy and digital infrastructure regulations as the key element for the development of connectivity services, added value, platforms and applications in the context of the digital ecosystem and its governance.

In this second newsletter, articles about public policy and digital infrastructure regulations in Argentina, infrastructure companies, connectivity in the communities and ICT service providers in the state realm were published.

[More information >](#)

Peer Revision Workshop

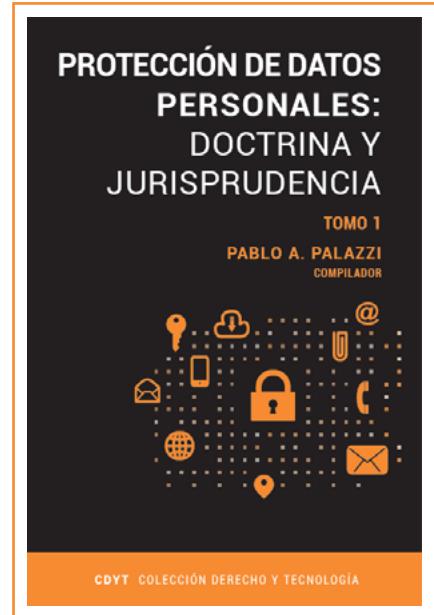
In order to take advantage of the benefits of artificial intelligence (AI), the judicial sectors in different Latin American countries are implementing (or in the process of implementing) these technologies in their processes or services.

The CETyS conducted an investigation to assess the preparedness, needs, obstacles and opportunities of the judicial sector to adopt AI technologies *responsibly*.

Within this framework, a virtual peer revision workshop was held on April 14th and 15th, where the preliminary results of the investigation were presented. The work team was made up by a multi-disciplinary team with 11 researchers of the region who analyzed, specifically, the cases of Argentina, Chile, Colombia, Mexico and Uruguay.

Launching of the book “Personal Data Protection: Doctrine and Jurisprudence”

Compiled by Pablo Palazzi and with the collaboration of 28 local experts, the publication goes over the landmarks of data protection in Argentina, analyzing its international context. The result of this collaborative project is a current and all-embracing work on the entire matter, with different points of view and outlooks, not only local but also international, which explain clearly how complex the legal rules for the treatment of personal data are at present.



Community Lab at RightsCon 2021: Digital colonialism? Re-thinking metaphors and practices in a context of cyber power

Carolina Aguerre and Nathalia Sautchuk Patrício organized a Community Lab on June 7 at the 2021 edition of RightsCon, the international conference on human rights in digital environments organized by Access Now. The panel had Nick Couldry, Ulises Mejías, Juan Ortiz, Carolina Aguerre and Raquel Tarullo, as facilitators.

Workshop Readiness of the Argentine Judicial System in the Face of AI

On Thursday, July 1st, a workshop was held on the assessment of Argentina in the face of the preparedness of the judicial sector for the implementation of artificial intelligence.

In this event, Gonzalo Bustos and Bruno Gorgone presented a report with critical aspects of the design and implementation of AI systems by the Argentine judicial system, taking into consideration issues related to equity, responsibility and judicial independence. Moreover, Mario Adaro, Minister of the Supreme Court of Justice of Mendoza and coordinator of the Federal Institute of Innovation, Technology and Justice of the Argentine Provinces and the Autonomous City of Buenos Aires, from the Federal Board of Justices, was one of the speakers of the event.

Webinar “Study on the Implementation of Artificial Intelligence in Justice in Colombia”

On Friday, October 22nd, the webinar “Study on the Implementation of Artificial Intelligence in Justice in Colombia” was conducted, where the study on the “Preparedness of the Judicial System for the Implementation of AI in Latin America” was presented. This [Investigation](#) was coordinated by the CETyS and it brought together researchers from five countries of the region.

On this occasion, the presentation focused on the exploratory and analytical framework developed and on the experience of Colombia. Daniel Castaño (author of the Colombian case), Gonzalo Bustos Frati (CETyS researcher and co-director of the project) and Roberto Serrato (Judge of the First Section of the Council of the State and leader of the Commission of AI & Digital Justice in Colombia) took part of the presentation.

[See video >>](#)

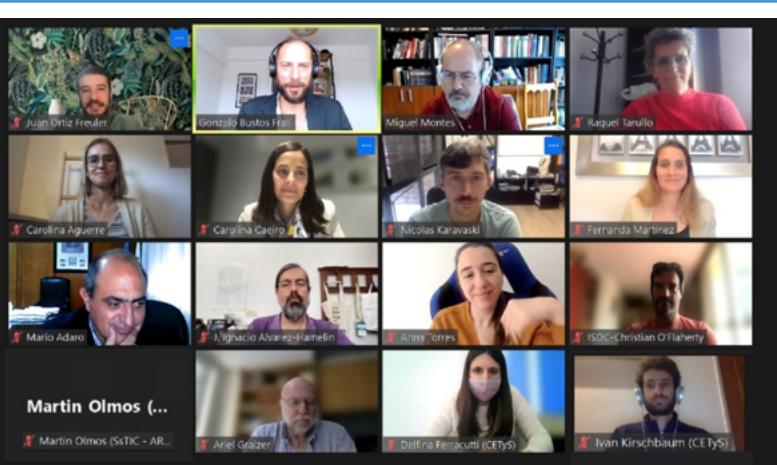
Presentation of the Document “The Colombian Case: Adoption of Collaborative Governance as a Means for the Implementation of an Ethical Artificial Intelligence”

The document «The Colombian Case: Adoption of Collaborative Governance as a Means for the Implementation of an Ethical Artificial Intelligence», prepared by Víctor Muñoz, Elena Tamayo and Armando Guio and published by the CETyS, analyzes the case of Colombia, which has adopted a collaborative governance approach in its path to the promotion of an ethical AI, but it needs to go deeper in its practical implementation of AI.

This document is a region pioneer in addressing the topic from a practical standpoint; it was launched on October 12th, in the presentation of the “Ethical Framework for AI in Colombia: Adoption and Implementation”, which was attended by different authorities of the government, the private sector and the academia of Colombia and the region.

[See document >>](#)

First Meeting of the Multi-sectoral Advisory Board of the Universality of Internet Project – UNESCO



The first meeting with the Multi-sectoral Advisory Board of the project on the [Universality of Internet](#) (UNESCO) that the CETyS is leading for the case of Argentina was held on Thursday, November 4th. The Board is made up by outstanding experts from the government, the private sector, the civil society and academia.

In the meeting, the project and the progress of the research team were presented. Moreover, some critical aspects affecting the universality of the internet in Argentina were discussed.

Participation of CETyS in Global IGF

CETyS attended two discussion panels in the 2021 edition of the Global IGF held in a hybrid way in Katowice, Poland and in virtual format on December 6th. The first was “Progress of the principles and ROAM indicators for the universality of internet (IUI) for Internet United”.

The second, the LAC Space, had the participation of María Fernanda Martínez, our executive director, who presented the activities, publications and projects that CETyS carried out during 2021. Furthermore, Gonzalo Bustos Frati, co-director and researcher for the case of Argentina, presented the investigation “Assessment of the Potential Impact of Artificial Intelligence in the Latin American Judicial System”.

Presentation at the 2021 GigaNet Annual Symposium

On December 6, Carolina Aguerre (CETyS / GCR21) and Diego Canabarro (CETyS) participated in the GigaNet 2021 Annual Symposium, which takes place every year on day 0 of the IGF Global. The researchers presented the article “Boundary work in Internet governance: the historic role of layers and the E2E argument”, which explores how the Internet made its boundaries, that is how as an entity/artifact it strove to define its shape which was not only technical, but also institutional and value ridden. They also examine boundary work stemming from the combination of a layered-model approach and the E2E principle that have guided the development and evolution of the Internet.

[See article >>](#)

Sixth Edition of the Annual Fintech Law Conference

On Tuesday, December 14th, the sixth Annual Fintech Law Conference was held by the CETyS and the Master in Corporate Law. The conference was organized by Pablo Palazzi, co-director of the CETyS, Santiago Mora, professor of the DICT program, and Erica Pedruzzi, director of the Master in Corporate Law at the UdeSA. The conference addressed the main regulatory changes and discussions on the Fintech Law topics of the year, such as transfers 3.0, crypto currencies, the new regulation of the Central Bank of Argentina for crowdlending, and practices to prevent asset laundering of exchanges in Argentina, among others.



6 CETyS Digital Community

