



October 21-25, 2019, Mexico City - UNAM

Artificial Intelligence for Science, Industry and Society (AISIS2019)

Third bulletin
— October 2019 —

News

This bulletin updates the previous one with the following, new information:

- Final Programme
- Information on
 - Reception
 - Venue
 - Lunch arrangements
- Excursion update
- Information on proceedings
- Tutorial: Neural Network Optimization
- Emergency contacts

Overview

Dear colleagues, it is our pleasure to announce the Symposium: Artificial Intelligence for Science, Industry and Society (AISIS2019) which will take place in Mexico City , Mexico, from October 21 to 25, 2019. The symposium is organised jointly by CERN openlab [1] and the Universidad Nacional Autonoma de Mexico (UNAM, [2]), and it includes a session organised by the OECD (Paris, [3]) about policy and social issues linked to AI. The conference website can be found at <http://epistemia.nucleares.unam.mx/web?name=AISIS2019>

[1] <http://openlab.cern>

[2] <https://www.unam.mx>

[3] <http://www.oecd.org>

The venue

The symposium will take place at the main campus of the Universidad Autónoma de Mexico.

Contact details

In case of any questions, please contact the organizers at:

ai-symposium-2019@correo.nucleares.unam.mx

Scope

We organize an international symposium that will address the following topics:

- *Reinforcement learning* – from pattern recognition to experience-driven decision making;
- Natural language processing, simultaneous translation;
- The teaching of ML and quantum computing at different levels;
- Computing resources requirements in different domains and scientific disciplines;
- The future of large data analytics;
- Collaborative systems and human-machine interactions;
- Algorithmic game theory and computational social choice;
- Quantum and classical algorithms for deep learning and AI;
- Perspectives beyond the current horizon.

The symposium will devote special attention to the following ethical and societal issues:

- Transparency: to which extent is it possible to explain and verify the algorithms;
- Choice assistance: can AI provide appropriate support for user choice?
- Governance and control: can AI powered systems still be controlled by humans?
- Security, robustness and dependability of AI networks;
- Safety: how to make sure that AI systems do not cause harm to humans or property;
- Privacy: how to ensure data protection in the AI world;
- Ethics and accountability: respect of human values and attribution of responsibility;
- Policy-regulated access to data – what data is accessible to machines, and under what licencing arrangements (an important consideration given that data is a vital input to the process of machine learning);
- New policies and regulatory tools to be developed in order to address new needs related to digitalisation, open science, and open innovation.

The Symposium will be comprised of five plenary sessions of invited talks, one plenary session organized by the OECD, two parallel tracks for contributed talks spread over a total of four sessions, and a dedicated poster session. **Prizes for the best poster will be awarded, and the best posters will be offered the chance to give a brief summary talk.**

Keynote speakers

We are very happy to announce the distinguished speakers who have accepted our invitation to give a keynote presentation:

- Dan Fagella: AI innovation in the Pharmaceutical Sector- Accelerating Research

- Michael Aaron Kagan: Machine Learning in High Energy Physics
- Ulises Cortes: Trustworthy AI - The AI4EU approach
- Mirjana Stankovic: Regulating Emerging Technologies: Opportunities and Challenges for Latin America
- Pablo Mayer: Leveraging AI Communities as Innovation Engines in Life Sciences
- Zeljko Ivezić: Upcoming Big Data and AI challenges in Astronomy
- Jesús Savage: Robotics, AI, and machine vision
- Scott Hamilton: Atos Quantum Computing: Future Proofing What Lies Beyond Super-Computing

The registration fee and registration process

The registration fee for the symposium is 500 USD. A reduced fee of 450 USD applies if paid before August 31, 2019. The full fee for accompanying persons is 80 USD. The fee includes a welcome drink, lunches, coffee breaks, and the conference banquet. Payments can be made by bank transfer as detailed below. The registration status on the INDICO website will be changed to “complete” by our administrative staff after your payment is received. Regular invoices will be distributed at the registration desk upon arrival in Mexico.

Registration is open until October 15, 2019 at <https://indico.cern.ch/e/aisis2019>

Support for students and young researchers

Thanks to the conference sponsors, funds have been set aside to support the participation of young researchers at AISIS2019 by waiving the registration fee. Students and participants who have received their PhDs within the past three years are encouraged to apply for support according to the guidelines posted on the website. The deadline for student support application is July 28, 2019. Support decision notifications will be sent by August 19, 2019.

Payment options

Once you have made your payment, please send a copy of the payment form (available on the website) and your payment confirmation to the organizers at: ai-symposium-2019@correo.nucleares.unam.mx

From abroad / in a foreign currency

International bank transfers can be sent to:

BANK:	J.P. MORGAN CHASE BANK N.A.
ACCOUNT NUMBER:	00101693118 DLLS
SWIFT CODE:	Chasus33
ABA WIRE TRANSFER U.S.:	111000614
ABA WIRE TRANSFER EUROPE:	21000021/

Address:	TEXAS MARKET P O BOX 659754 SAN ANTONIO, TX 78265-9754
Account owner:	UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO
Account Owner Address:	Avenida Universidad #3000, Colonia Universidad Autónoma de México, Delegación Coyoacán, c.p 04510 Ciudad de México

In Mexico / in Mexican Pesos

You need a deposit slip with a unique reference number, which you have to request from the organizers (ai-symposium-2019@correo.nucleares.unam.mx). This slip contains the account information needed for the transfer. It is important that the information you supply to the bank is correct, as we have no way to recover incorrect transfers and you will have to pay again. Once you have paid, please send the proof of payment to the organizers. If you need a factura, please provide the required information when you send your proof of payment.

Call for abstracts

Abstract submission is currently open and will continue until August 4, 2019. Notifications about selected contributions will be delivered by August 19, 2019.

Proceedings

Conference proceedings will be published in electronic form on Proceedings of Science (<https://pos.sissa.it/>). The page limits for the proceedings are 6 pages for contributed papers, 8 for invited papers, and 10 for keynote contributions. To be able to upload your contribution, you will need either a regular CERN account or a lightweight account, which has to be linked to your contribution. If you need an account, please consult <https://account.cern.ch/account/Externals/RegisterAccount.aspx> for information. The organizers will need to know the e-mail address you used for the creation of your lightweight account or your CERN login to make sure you can upload your contribution.

Hotel Information

Participants are kindly requested to directly book their rooms in Mexico. We provide a list of hotels which have agreed to special prices for the Symposium. The recommended hotels are within easy reach of the University. We suggest not to book hotels in the city center to avoid long transportation.

The approximate exchange rate at the time of writing is around 19 Mexican Pesos for 1 USD, and around 21 Mexican Pesos for 1 €.

Note: There will be a Formula 1 racing event in Mexico City October 25-27. We suggest to book hotels well in advance before they become full.

Recommended Hotels

Hotel El Diplomático

Located on the metrobus line to the UNAM

- Standard single or double room (1 or 2 persons)
\$1,030.00 MXN per night [about 55 USD]
- Suite:
\$1,080.00 MXN per night [about 55 USD]
- Extra person, up to 4 occupants: \$200 MXN per night [about 10 USD]

Contacts: Jessica Eslava or Mirosalva Villalobos,
+52 55 5563.60.66
reservaciones@eldiplomatico.com.mx
reservas@eldiplomatico.com.mx

Event code: "Evento Inteligencia Artificial"

Web: <https://www.eldiplomatico.com.mx/>

Holiday Inn Ciudad de México Trade Center

Located near Metro "San Antonio", one change to get to the UNAM.

- Single/Double:
\$1,725.00 MXN w/o breakfast [about 90 USD],
\$2,028.00 MXN with breakfast [about 105 USD]
- Tripple:
\$1,966.00 MXN w/o breakfast [about 100 USD],
\$2,153.00 MXN with breakfast [about 110 USD]

Event code: "INTELIGENCIA ARTIFICIAL"

Web: www.hinntradecenter.com

Hotel City Express

Located on the metrobus line to the UNAM

- Single
\$1,547.00 MXN [about 80 USD]
- Double
\$1,808.80 MXN [about 95 USD]

Breakfast included

Contacts: ceins.ventas@cityexpress.com.mx,
ceins.ventas1@cityexpress.com.mx,
ceins.ventas2@cityexpress.com.mx

Event Code: "INTELIGENCIA ARTIFICIAL"

Web: <https://www.cityexpress.com/en/plus/hotels-mexico/ciudad-de-mexico/benito-juarez/insurgentes-sur>

Alternative accommodation options

The standard booking sites for hotels also list hotels around the UNAM and with easy access by public transport. There are also apartments and rooms in the vicinity of the UNAM available on airbnb.

Sponsors

Gold

- ATOS
- IBM - SinergiaSys
- Huawei Technologies - MR Solutions

Silver

- Nvidia
- VEEAM
- LUFAC

Other

- TLINE - DELL

Venue

The sessions of the symposium will be in the Carlos Graef Auditorium in the Amoxcali building of the Facultad de Ciencias (<https://goo.gl/maps/eRXHimUJGytsv46n7>).

Presentations

Slides will be presented from a central computer. Please give your slides to the organizers before your session. We have to avoid changing computers during the contributed sessions. Also indicate if you are willing to share your slide on the indico servers.

If you need other arrangements, e.g. for confidentiality or to present special media, please contact the organizers beforehand.

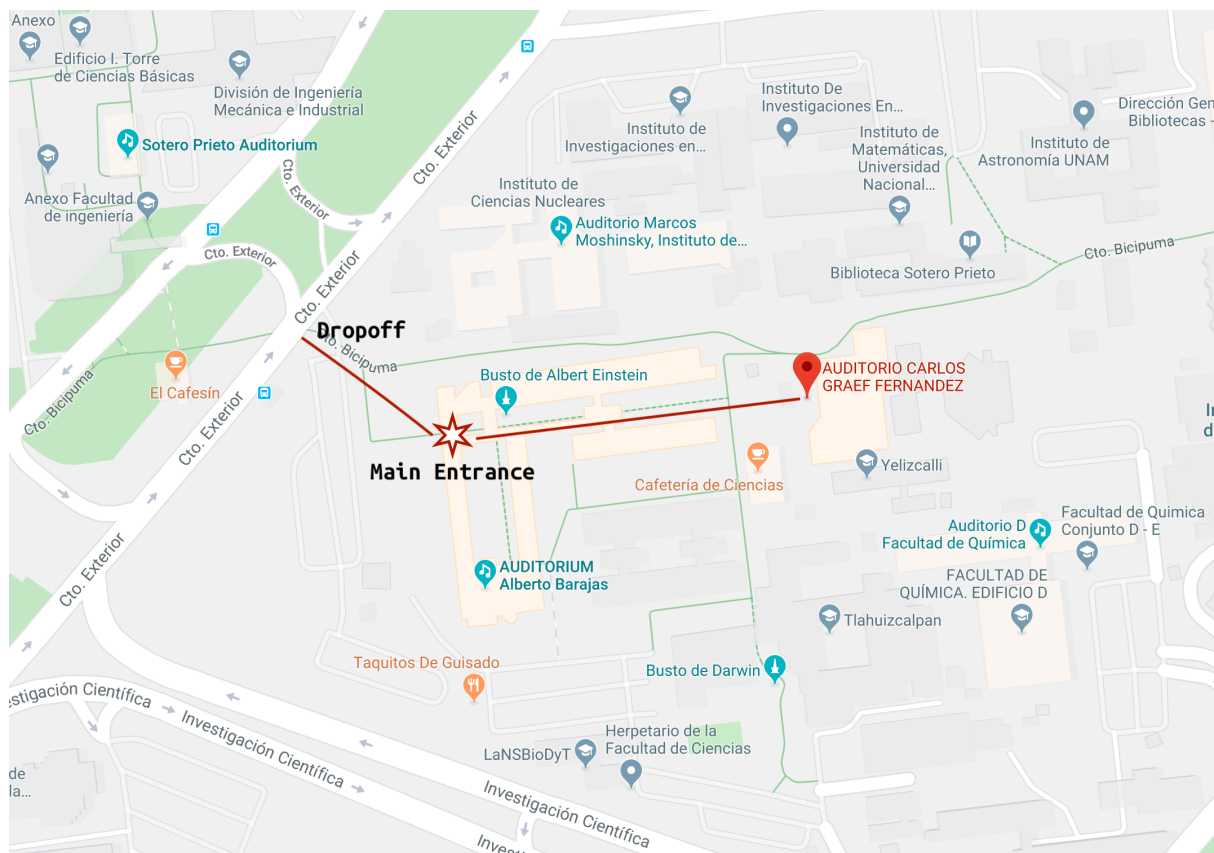
Lunch Arrangements

If you registered for lunch, you will receive lunch tickets with you registration. Lunch will be served at the venue.

How to get to the venue

The easiest way to get there is by Uber or Didi, selecting the *Facultad de Ciencias* as your destination. You also can ask the reception at the hotel to call a taxi for you. Picking up taxis in the street is not completely safe, especially if you are carrying a laptop. Taxis from a taxi stand are normally OK. Getting regular taxis inside the UNAM campus is difficult. Uber and Didi work well and the pickup time is typically only a few minutes.

Using the Metro or MetroBus is also possible, but not recommended. Public transport in Mexico City tends to be packed almost all day around, especially during the morning and evening commuting hours



Registration and Welcome Reception

The welcome reception will take place on Sunday, October 20, 2019 18:00 to 20:00 h, at the Hotel City Express, Insurgentes Sur, next to the Teatro Insurgentes.

<https://www.cityexpress.com/en/plus/hotels-mexico/ciudad-de-mexico/benito-juarez/insurgentes-sur>

<https://goo.gl/maps/Ap9yLB2SbGFnx1Yz7>

Registration

The registration will be open during the Welcome Reception on Sunday, October 20 and during the morning of Monday, October 21.

Excursion

The excursion has been changed for organisational reasons. We will visit the Museo Dolores Olmedo (<https://artsandculture.google.com/partner/museo-dolores-olmedo>, <http://www.museodoloresolmedo.org.mx/>). The collection of the museum includes works by famous Mexican artists like Frida Kahlo and Diego Rivera. It is hosted in the former

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Hacienda La Noria. It is also famous for its gardens, which are home to peacocks and Xoloiztquintle dogs.

Transport to the excursion will leave after lunch on Wednesday, October 23 and return at about 18:30 from the museum.

Conference Dinner

The dinner will be held on Thursday, October 24, at the Antigua Hacienda de Tlalpan (<http://www.aht.mx/>). We will provide transport for the non-local participants from the meeting venue to the restaurant and from the restaurant to the hotels.

Event Programme

For details of the event timetable, please consult the indico page <https://indico.cern.ch/event/781223/timetable/>.

	Sun, Oct 20	Mon, Oct 21	Tue, Oct 22	Wed, Oct 23	Thu, Oct 24	Fri, Oct 25
8		Registration				
9		Opening, Keynotes 1	Keynotes 2	OECD	Keynotes 3	Keynotes 4
10		Keynotes 1	Keynotes 2 Coffee	OECD Coffee	Keynotes 3 Coffee	Keynotes 4 Coffee
11		Coffee, Plenaries 1	Plenaries 2	Coffee OECD	Plenaries 4	Plenaries 5
12		Plenaries 1	Plenaries 2	OECD	Plenaries 4	Closing
13		Lunch	Lunch	Lunch	Lunch	Closing
14		Lunch, Contrib. 1	Lunch, Plenaries 3	Lunch	Lunch Contrib 3	
15		Contrib. 1	Plenaries 3	Excursion	Contrib 3	Tutorial
16		Contrib. 1	Plenaries 3 Coffee	Excursion	Contrib 3 Coffee	Tutorial
17		Contrib. 1, Coffee	Contrib 2	Excursion	Contrib 4	Tutorial
18	Reception 18-20 h	Pubic lecture	Contrib 2	Excursion	Contrib 4	Tutorial
Evening					Dinner 19:30-22	

Public Lecture

The public lecture AI Research at Atos, given by by Cédric Bourrasset, will be presented in in the *Auditorio Alberto Barajas* of the Facultad de Ciencias, at 18:00 on Monday, October 21, 2019

Tutorial

The Symposium includes an **advanced** machine learning tutorial, aimed primarily at local students and young researchers. It will take place on Friday, October 25, 2019, during the afternoon. It will take place in the *Auditorio Marcos Moshinsky* of the Instituto de Ciencias Nucleares.

- **Topic: Neural Network optimisation**

Modern neural network architecture reflects the complexity of the problem. So those may become quite complex and computationally heavy. Usually, there are plenty of different meta-parameters to tune: number of layers, activation function, number of neurons per layer, drop-out rate, etc. There many different methods and tools that aimed at tuning those parameters for various reasons - accuracy, memory footprint or inference rate. This mini-course will cover the basics approaches for neural networks optimizing including hyperparameter optimization, network architecture search and Bayesian Neural Network perspective. Practical hands-on sessions will follow the theoretical introduction

- **Expected knowledge for you to take this tutorial**

- Python, Numpy, Pytorch
- The most fundamental ideas behind neural networks building blocks: regular, convolutional, drop-out and normalisation layers. You Should have tried to design several networks by yourself.

- **Tutor**

The tutorial will be given by [Andrey Ustyuzhanin](#) from the [Yandex School of Data Analysis](#).