Eureka ENC 2024

International Workshop on Artificial Intelligence and Analytics, Eureka 2024

IEEE Mexican International Conference on Computer Science, Encuentro Nacional de Computación, ENC 2024

TecNM/Instituto Tecnológico de Cd. Madero
September 23–25, 2024, Ciudad Madero, Mexico
Hybrid event, preferably on-site

Call for papers, abstracts, and participation

The Eurekas Community (EC), the Mexican Society of Computer Science (SMCC), and the Tecnológico Nacional de México campus Instituto Tecnológico de Ciudad Madero (TecNM/ITCM) are pleased to announce the Eureka ENC 2024. This event is aimed at students, teachers, and researchers to promote the strengthening of research groups and development in computer science.

The EC is a multinational and multidisciplinary scientific community that brings together professionals from mathematics, computer sciences, and engineering, as well as administration, economics, and social sciences. It aims to drive theoretical and practical developments useful for data and business analytics, thereby contributing to the knowledge society and economy. The SMCC aims to advance research and development in Computer Science in Mexico by supporting collaboration between researchers and institutions and motivating students to approach the different fields of computer science.

This year, these two associations, along with TecNM/ITCM, are collaborating to promote interdisciplinary and transdisciplinary collaboration through synergies among participants in the following activities:

Conference Attendance
Abstract or Paper Contributions   https://eureka-enc.cdmadero.tecnm.mx/Publications/
Student Research Consortium Contest
Tutorial Proposals

See our homepage **http://eureka-enc.cdmadero.tecnm.mx/** and the information below for more details. If you have any questions or concerns, do not hesitate to contact us by the email: eventoscomputacion@cdmadero.tecnm.mx

With best regards,

Rafael Espín Andrade
Yasmín Hernández Pérez
Laura Cruz Reyes
Claudia Gómez Santillán
Gilberto Rivera Zarate
Patricia Sánchez Solís

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1. **Conference Attendance**

Confirmed Keynote Speakers

- Witold Pedrycz (Alberta University, Canada), Granularity and its role in Artificial Intelligence and Analytics.
- Luis Martínez (University of Jaen, Spain), Computational Intelligence for Prescriptive Analytics.
- Dr. Jorge Marx Gómez (University of Oldenburg), Artificial Intelligence in Support of Sustainable Development.
- Rafael Espín Andrade (Eurekas Community president), Eurekas Community's Strategy Towards AI and Data Analytics: Knowledge Discovery in a Broad Sense.

2. **Abstract or Paper Contributions**

Topics

The topics of interest include (but are not limited to):
Theoretical topics of Artificial Intelligence, Augmented Intelligence, Business Intelligence, Business Analytics, Fuzzy Sets, and extensions, Fuzzy Logic, Computing with Words, Compensatory Fuzzy Logic, Archimedean-Compensatory Fuzzy Logic, Rough Sets, Evolutionary Algorithms, Neural Networks, Fuzzy Graphs, Hybrid methods, Deep Learning, Forecasting, and their application in Decision Making, Decision Support, Optimization, Games Theory, Knowledge Engineering, Knowledge Management, Knowledge Discovery, Machine Learning, and Management Sciences.

Modalities of participation

Contributions must be written in English. In this edition, there are two modalities of participation, both with oral presentation:

- Full-length article. The organizing committee will publish the full-length.
  - Paper in English: published as proceedings by IEEE in its CPS series.
  - Paper in Spanish: published by TecNM/ITCM in its journal CISO^2: Ciencia e Ingeniería para una Sociedad Sostenible (the first author must be a student).

- Abstract. Authors of abstracts (500 words, free format) will be invited to send a full version of their contribution (papers will be submitted for additional review) to one of the following publications:

- o The special issue *Computational Intelligence for Artificial Intelligence and Data Analytics* for publishing in the International Journal of Computational Intelligence Systems (Indexed in JCR with an impact factor of 2.9). The Call for Papers is available at https://link.springer.com/journal/44196/updates/26656828
- o A contributed book published in the *Intelligent Systems Reference Library* series by Springer (indexed in Scopus). The Call for Chapters will be announced shortly.

3. Postgraduate Research Consortium

Motivation

The International Research Consortium within the Eureka ENC 2024 aims to provide students the opportunity to obtain recognition for the quality of their research, based on the evaluation of expert researchers.

Modalities and Awards

- Master students. The best-evaluated works will receive "The Best Master Award".
- Doctoral students.
  - o 1st and 2nd-year doctoral students: PhD students in the first or second year of their research will have the opportunity to present their work and get feedback from experts in the field.
  - o 3rd and 4th year doctoral students: A committee of experts will evaluate the research work of 3rd and 4th year PhD students. The best-evaluated works will receive "The Best PhD Award".

4. Tutorial Proposals

Call for Tutorials

Tutorials provide a valuable opportunity for conference participants to expand their knowledge and skills. The Eureka ENC 2024 seeks tutorial proposals on new and emerging topics in any field of Computer Science.

Submission

Send tutorial proposals in Word and PDF format to eurekaenc2024@cdmadero.tecnm.mx.
A tutorial proposal consists of two pages describing the topic, the plan for conducting the tutorial, and the backgrounds of the presenters and the tutorial:
- Title
- Topic: This section should include goals and the intended audience of the tutorial (practical vs academic; beginner vs advanced). The topic should be described in detail, emphasizing its importance and timeliness.
- Plan: This section should include a preliminary schedule of events, including estimated times and length of the tutorial (half-day/full-day); a detailed description of what the tutorial will cover; a justification of the tutorial for Eureka ENC 2024; an explanation of how the tutorial will be conducted (lecture, hands-on training or any combination of them); and a link to sample material or notes.
- Presenters' Background: This section should include relevant biographical information and summaries of the presenters' technical presentation and tutorial experience.
- Tutorial Background: This section should describe where and when the tutorial was offered previously (If applied).
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5. Important dates

Deadline for English Paper reception	June 3, 2024
Deadline for Spanish Paper reception	August 5, 2024
Deadline for Abstract reception	August 9, 2024
Deadline for Tutorial proposal reception	August 2, 2024
Deadline for Consortium reception	September 13, 2024
Notification of English Paper acceptance/rejection:	June 17, 2024
Notification of Spanish Paper acceptance/rejection:	August 12, 2024
Notification for Abstract acceptance/rejection	August 12, 2024
Notification for Tutorial proposal acceptance/rejection	August 30, 2024
Notification for Consortium acceptance/rejection	September 17, 2024
Registration and Payment	August 17, 2024