

## SOCIEDAD MEXICANA DE INGENIERÍA BIOMÉDICA

### XLVI MEXICAN CONFERENCE ON BIOMEDICAL ENGINEERING

With the objective of contributing to technological and scientific improvement in the area of Health in Mexico through engineering techniques, covering various cutting-edge research topics in Biomedical Engineering and Clinical Engineering, as well as technology innovation for health, transfer of technology, entrepreneurship, education in Biomedical Engineering and regulations, the Mexican Society of Biomedical Engineering, through its Scientific Committee corresponding to the **46th National Congress of Biomedical Engineering - CNIB2023**, makes the following:

### CALL FOR CONFERENCE PAPERS

aimed at members of the academic, scientific, and industrial community interested in presenting the results of their most recent research in the field of Biomedical Engineering and related areas, attending to the following:

#### BASES

1. Conference papers must strictly adhere to the bases of this call.
2. The scientific sessions that will be presented at the CNIB2023 will be the following:
  - a. **Scientific Session 1 (SC1):** Artificial Intelligence, Modeling and Simulation of Biological Systems, Bioinformatics and Computational Biology.
  - b. **Scientific Session 2 (SC2):** Signal processing and medical images, Data Science.
  - c. **Scientific Session 3 (SC3):** IOT in health, Bioinstrumentation, Biosensors, Bioimpedance and Micro/Nano Technologies, BCI systems, Wearable Systems.
  - d. **Scientific Session 4 (SC4):** Biomechanics, Rehabilitation, Biomaterials and Tissue Engineering.
  - e. **Scientific Session 5 (SC5):** Clinical Engineering, Regulations and Innovation and Development of Technologies for Health, Medical Physics.
3. The work must be original, in addition to not having been published or that are in the process of being published, review papers will NOT be accepted. A similarity analysis tool will be used to verify the originality of the work. Papers with more than 10% of similarity score, excluding the methods section, will automatically be rejected.
4. Written contributions must be submitted in English. Any manuscript in the Spanish language will be automatically rejected.
5. Each contribution must have a maximum length of 3,000 (three thousand) words, including: heading, abstract, body of the document and references. Every contribution must be structured according to the provided [template](https://easychair.org/conferences/author_templates_view?a=30476656), available here ([https://easychair.org/conferences/author\\_templates\\_view?a=30476656](https://easychair.org/conferences/author_templates_view?a=30476656) )
  - a. **Important note:** authors must strictly adhere to the template's format, failing to do so may cause automatic rejection of the contribution.
6. Final versions of the contributions must be submitted as a PDF file, additionally, a ZIP folder containing all source files must be submitted, through the EasyChair CNIB2023 platform (<https://easychair.org/conferences/?conf=cnib2023>) by the corresponding author. Refer to **Appendix A** for details on formatting and document templates.
7. When submitting a contribution through the EasyChair platform, the corresponding author must provide the following information:
  - a. Name and last name of each of the authors, must match with PDF's version

- b. Affiliation of each of the authors, must match with PDF's version
  - c. Email address of each of the authors
  - d. Scientific session to which you submit your work
8. During submission, the author may choose to request a time slot of a sixty (60) seconds flash talk to advertise their work. This new modality aims to help authors promote and engage with more attendees interested in their research. A limited number of timeslots are available and will be assigned on a first-come-first-served basis.
9. During submission, if the first and presenting author is an undergrad/graduate student, the author may choose to participate in the **National Student Contest on Biomedical Engineering (Appendix B)** in the oral presentation modality.
10. It is an essential requirement that at least one of the authors is registered and attends the CNIB2023.
11. The arbitration of contributions will be exclusively in charge of the members of the CNIB2023 Scientific Committee, who will designate reviewers related to the different research areas. The decision emanating from the review process will be final.
12. The Scientific Committee will notify the result of acceptance or rejection of the work through the EasyChair platform.
13. In the event a contribution is accepted with corrections,
  - a. The corresponding author must resubmit an updated version of the PDF file and the ZIP file through the EasyChair platform
  - b. Resubmission must take place within the following ten (10) calendar days once notification of acceptance has been received, failing to resubmit will cause automatic rejection of the contribution.
  - c. A response letter in English must be included in the updated ZIP file, this document contains the way in which corrections and observations were addressed.
14. Only one (1) certificate of participation will be delivered for each accepted and registered contribution, which includes all authors' names.
15. Important dates:
  - a. **March 7th 2023**, release of the call for contributions for the CNIB2023.
  - b. **June 30th 2023 at 11:59 pm**, last day to submit contributions
  - c. **July 1-14th 2023**, acceptance/rejection notification
  - d. **July 24th 2023**, last day to resubmit corrections
  - e. **November 2-4th 2023**, XLVI National Conference on Biomedical Engineering CNIB2023
16. Unforeseen events not contemplated in this call will be resolved by the Scientific Committee. You can contact us at: **ccientifico.somib@gmail.com** with cc to **abbenite@uci.edu**

## APPENDIX A. Preparing a contribution for publication in the Proceedings of CNIB2023

**ALL CONTRIBUTIONS SENT FOR EVALUATION AND PARTICIPATION IN THE XLVI NATIONAL CONGRESS OF BIOMEDICAL ENGINEERING (CNIB2023) MUST COMPLY WITH THE FOLLOWING GUIDELINES.**

1. The previously established templates must be used in their Word or LaTeX format, available in the [EasyChair platform](https://easychair.org/conferences/author_templates_view?a=30476656): [https://easychair.org/conferences/author\\_templates\\_view?a=30476656](https://easychair.org/conferences/author_templates_view?a=30476656)

- a. **LaTeX format:** A compressed file must be created containing the files resulting from the compilation, source files, including bibliography (.bbl files), images and figures in TIFF format (minimum resolution of 300 dpi). Additionally, add a Word document with the code of the .bbl files.
  - b. **Word format:** A compressed file must be created containing the Word file, PDF file and images and figures in TIFF format (minimum resolution of 300 dpi).
2. The abstract must not exceed 200 words.
  3. To insert equations in Word, use the math function of Word 2003/2007, MathType or Microsoft Equation.
  4. All authors affiliations, but only the email address of the corresponding author must be included.
  5. Consult the following documents where you can find [examples of how to](https://drive.google.com/drive/folders/1FOKlfqXnu7WePkS3rJWKPZQTRaZLSxt3) correctly fill out the information related to the manuscript: <https://drive.google.com/drive/folders/1FOKlfqXnu7WePkS3rJWKPZQTRaZLSxt3>
  6. We encourage you to use original material. In case of re-using material from a previous publication, the corresponding author is responsible for obtaining the permissions of the original authors and providing proof of said session of rights of use. Permissions for any material that authors wish to reuse from a previous publication must be obtained from the publisher of the relevant publication. A Permit Application Form (Research Permission) must be duly filled out in this case.

**IMPORTANT NOTE:** enter the title of the work, as well as the names of the authors identically in both forms, these MUST match with the PDF version of the contribution, sign and send the PDF version the corresponding format(s) in the compressed file along with source files. Details, such as, author name sequence, and affiliations provided in the Collaboration Agreement must be final and identical to the information provided in the manuscript. Changes will NOT be accepted at a later stage.

## APPENDIX B. National Student Contest on Biomedical Engineering “Eng. Jesús Mondragón Solís”

With the objective of stimulating the research and development work carried out by Biomedical Engineering students of different academic levels in the Higher Education Institutions of Mexico, the Mexican Society of Biomedical Engineering, through its Scientific Committee corresponding to the 47th National Congress of Biomedical Engineering - CNIB2023, makes the following:

### CALL FOR THE NATIONAL STUDENT CONTEST ON BIOMEDICAL ENGINEERING

#### *“Eng. Jesús Mondragón Solís”*

Aimed to undergraduate and graduate students interested in presenting the results of their research work to the Biomedical Engineering community of Mexico, attending the following:

#### **BASES**

##### **Of the participants**

1. Any student of any nationality who is enrolled at a Mexican Higher Education Institution and whose work is related to the topics of the Conference can participate. Those who have graduated (or plan to graduate) in the period February - November 2023 can also participate.
2. The Contest will be developed in two modalities: Undergraduate and Graduate sessions, this according to the study program followed by the student or recent graduate.
3. The work may have more than two authors. However, the student who developed the work must appear as the first author, the corresponding author may be the student or a research advisor of the work. The presentation and defense during the contest will be made by the student or recent graduate.
4. At least the presenter of the work must have the registration covered at the time of receiving the notification of acceptance.

##### **Of the contributions**

5. The contribution must strictly adhere to the official Call for Contributions (See above) and to the following guidelines.
6. The contribution must be submitted for evaluation following the basis indicated in the Call for Contributions, additionally, they must fill the **National Student Contest Request Form CNIB23** (<https://forms.gle/kbdgPHcn9KrH2Rk39>) and send a copy of the Responses to the email address [concurso@somib.org.mx](mailto:concurso@somib.org.mx), placing as subject: "Request for participation in the National Contest".

##### **Of the evaluation**

7. The arbitration of the contributions will be in charge exclusively of the members of the Scientific Committee of the CNIB2023, who will designate reviewers related to the different research areas. The decision emanating from the review process will be final.
8. The coordinator of each scientific session can suggest/recommend contributions corresponding to the session they coordinate to participate in the National Student Contest; This applies to each modality (Undergraduate and Graduate).
9. The coordination of the Contest will select 5 finalists in each modality (Undergraduate and Graduate) and will communicate such decisions to the authors.
10. In the event that a contribution is not selected among the five finalists, it will continue to be considered in the contributions program.

11. The finalist contributions will be presented orally and in person in the sessions corresponding to the "National Student Contest on Biomedical Engineering" and will be published in the Conference Book Proceedings according to the scientific session in which the work has been submitted.
12. The coordination of the National Student Contest will appoint the Jury of the Contest who will evaluate the finalist works within the framework of the oral sessions corresponding to the "National Student Contest on Biomedical Engineering". Said jury will be made up of prestigious academics who attend the Conference, under the criteria of maximum experience in each of the areas of the symposia and that there is no conflict of interest.
13. The Jury will choose the best three contributions in each modality of the Contest (Undergraduate and Graduate), taking into account the following evaluation criteria:
  - a. Originality of the investigation.
  - b. Structure of the written work (summary, introduction, methodology, results, analysis, conclusions, and bibliography).
  - c. Contribution to Biomedical Engineering.
  - d. Knowledge of the topic: there will be a Q&A session to assess the level of knowledge of the presenter.
  - e. Presentation: Time (15 minutes of presentation and 15 minutes of questions), visual aids, development of the speaker.
14. In the event that the student first author cannot attend the Congress, the work will be excluded from the Contest and may eventually be presented in the regular contribution's mode by a co-author. In this case, a maximum of 15 days prior to the conference, the corresponding author must be notified the Scientific Committee about the update at the email address: [concurso.somib@gmail.com](mailto:concurso.somib@gmail.com).
15. The awarding of the best three contributions of each modality will take place during the Closing Ceremony of the CNIB2023.
16. The Contest may be declared void in the following cases:
  - a. When there are less than three participating contributions in any of the two modalities.
  - b. When, in the opinion of the Jury, the contributions do not have sufficient academic merit.
  - c. Any other that is considered so by the Jury or the coordination of the contest.
17. The Jury may award a special mention in each modality, if it considers that, within the finalist works, there is one with sufficient academic merit for this purpose.
18. Situations not provided for in this call will be resolved by the Scientific Committee.