

# INTELLIGENT INFORMATICS FOR HEALTH IN THE NEXT DECADE

WEBSITE: [HTTP://WWW.ICIBMS.ORG/](http://www.iciibms.org/)  
EMAIL: [SECRETARIAT@ICIIBMS.ORG](mailto:SECRETARIAT@ICIIBMS.ORG)

OKINAWA, JAPAN  
DECEMBER 2-5, 2025

VIRTUAL & ONSITE

# THE 10TH INTERNATIONAL CONFERENCE ON INTELLIGENT INFORMATICS AND BIOMEDICAL SCIENCES

CALL FOR PAPERS

# ICIIBMS 2025

ORGANIZED BY:



OIST

Okinawa  
Institute of  
Science and  
Technology



琉球大学  
UNIVERSITY OF THE RYUKYUS

国立沖縄高専

National Institute of Technology, Okinawa College

SPONSORED BY:



IEEE



APPLIED SCIENCE AND  
COMPUTER SCIENCE  
PUBLICATIONS  
(AscsPub)



IEEE

Fukuoka Section

## Intelligent Informatics

## Biomedical Sciences

The 10th annual ICIIBMS conference will be held **in-Person** and **Virtually** at **OIST University from December 2-5, 2025**, in Japan. At ICIIBMS 2025, we offer a broad range of intelligent informatics topics for paper submissions and the **Best Paper Award to motivate you in your future research.**

<https://www.oist.jp>

We invite all those involved in research to submit an original technical paper to ICIIBMS 2025.

We accept **short papers, full papers, and poster session papers.** All accepted and presented papers will be submitted to **IEEE** for inclusion into **IEEE Xplore, Engineering Village,** and **Scopus** as well.

Join us to extend your network and **share your latest research in your field of expertise and get credit from your institution** for your indexed paper.



## Conference Tracks

### Track 1:

Image Processing, Computer Science, Information Engineering, Telecommunication Engineering

### Track 2:

Artificial intelligence, Robotics, UAV, Control Engineering, Automation and Human-Computer Interaction

### Track 3:

Bioinformatics, Biomedical, Bioengineering, Medical Imaging, Neuroscience

### Track 4:

Medical Technology, Patient Assessment, Biology, Anatomy and Physiology, Mental Health Technology

### ICIIBMS 2025 Topics include, but are not limited to the following:

- Autonomous Vehicles
- Advanced Control Engineering
- Medical Imaging
- Image Segmentation, Classification, and Fusion
- Image Reconstruction and Image Quality
- Microscopy and Histology Image Analysis
- Computer-Aided Diagnosis
- Visualization in Biomedical Imaging
- Machine Learning and Artificial Intelligence
- Applications of Big Data in Imaging
- Computational Anatomy and Physiology
- Surgical Visualization and Augmented Reality
- Robotics and Medical Robot
- Model Prediction Control
- Algorithm and PID Control
- Medical Science and Life Science
- Autonomous Vehicles
- Unsupervised Learning and Text mining
- Intelligent Software. Fuzzy Logic Control
- Big Data and Intelligent Transportation
- Sensors, Technology and Networks
- Medical Image Analysis, Multi-Agent Systems
- Telehealth: Strategy, Implementation, and Optimization
- Bionic Equipment and Control Engineering
- Bioinformatics and Neuroscience
- Population Imaging and Imaging Genetics
- Artificial Intelligence
- Embryo culture, Forensic Science
- Nanomedicine
- Data-driven healthcare
- Reinforcement Learning
- Distributed robotics

## IMPORTANT DATES · DEADLINES

## SUBMISSION OPENS APRIL 1, 2025

Short-Paper Presentation · July 31, 2025

Notification of Acceptance · September 20, 2025

Poster Session Presentation · July 31, 2025

Final Paper Submission · September 25, 2025

Full Paper Presentation · August 31, 2025

Author's Registration · October 10, 2025

Program Suggestions · August 31, 2025

Conference Dates · December 2-5, 2025

**Honorary Chairs**

Prof. Tanaka Shosaku,, Japan  
 Prof. Yunxiang Liu, Shanghai, China

**General Chair**

Prof. Bernd Kuhn, OIST, Japan

**General Co-Chair**

Prof. Huailin Zhao, China  
 Prof. Lee Yoot Khuan, Malaysia  
 Prof. Young-Gab Kim, Korea  
 Prof. Dai Fengzhi, China

**Steering Committee**

Dr. Eryk Dutkiewicz, Australia  
 Dr. Bernd Kuhn, Japan  
 Dr. Lee Yoot Khuan, Malaysia  
 Dr. Takashi Sato, Japan  
 Dr. Kyung Sup Kwak, Korea  
 Dr. Zacharie Mbaitiga, Japan  
 Dr. Vorapoj Patanavijit, Thailand  
 Dr. Suriyon Tansuriyawong, Japan  
 Dr. Morikazu Nakamura, Japan  
 Dr. Alfredo Benso, Italy  
 Dr. Paolo Soda, Italy  
 Dr. Zoltan Vilagosh, Australia  
 Dr. Wanjun Yu, Shanghai, China  
 Dr. Nirmalya Thakur, USA

**Publication & Publicity Chair**

Mr. Pranav Kunderu, USA  
 Dr. Euijong Lee, Korea  
 Mr. Eusib Vincent Pulvera, Philippines

**Technical Program Chair**

Dr. Kyuhei Honda, Japan  
 Mr. Pranav Kunderu, USA

**General Secretary**

Cindy Wicker & Zacharie Mbaitiga

## ICIIBMS 2024 BEST PAPERS

2024 9TH INTERNATIONAL CONFERENCE ON  
 INTELLIGENT INFORMATICS AND BIOMEDICAL  
 SCIENCES (ICIIBMS): [HTTPS://IEEEXPLORE.IEEE.ORG](https://ieeexplore.ieee.org)

DEPARTMENT OF BIOTECHNOLOGY, B.M.S. COLLEGE  
 OF ENGINEERING BENGALURU, INDIA

**Molecular Dynamics and Simulation  
 Studies on Herbal Contraceptives as  
 Progesterone Receptor Modulators**

Aditi Ravi Kumar, Aishwarya HS, Savithri Bhat

SCHOOL OF INFORMATION ENGINEERING, NORTH  
 CHINA UNIVERSITY OF WATER RESOURCES AND  
 ELECTRIC POWER, ZHENGZHOU, CHINA

**Achieving Efficient and Accurate  
 Segmentation for Autonomous Driving**

Ning kang Ouyang, Jie Dong, Yi Han,  
 Chen Yu Zhao

DEPARTMENT OF COMPUTER SCIENCE, COLLEGE OF  
 SCIENCE UNIVERSITY OF THE PHILIPPINES CEBU,  
 PHILIPPINES

**Enhancing Deep Learning-Based  
 Breast Cancer Classification in  
 Mammograms: A Multi-Convolutional  
 Neural Network with Feature  
 Concatenation, and an Applied  
 Comparison of Best-Worst Multi-  
 Attribute Decision-Making and Mutual  
 Information Feature Selections**

Eusib Vincent J. Pulvera, Demelo M. Lao

SCHOOL OF COMPUTER SCIENCE AND INFORMATION  
 ENGINEERING SHANGHAI INSTITUTE OF  
 TECHNOLOGY, CHINA

**A Lightweight Reverse Distillation for  
 Texture Anomaly Detection**

Lu Chang, Li Wenju, Wang Xubin

GRADUATE SCHOOL OF SCIENCES AND TECHNOLOGY  
 FOR INNOVATION YAMAGUCHI UNIVERSITY UBE,  
 JAPAN

**The Impact of Changes in Gaze  
 Distance on Timing Estimation**

Taisei Kagitani, Saori Aida

DEPT. BIOMEDICAL INFORMATICS, THE UNIVERSITY  
 OF UTAH SCHOOL OF MEDICINE SALT LAKE CITY, USA

**Predicting Ratings of Perceived  
 Exertion during Cycling Exercise Using  
 Physiological Data from Wearable  
 Sensors----LSTM Application-----**

Aref Smiley, Joseph Finkelstein

BIOLOGICAL SCIENCES INDEPENDENT LOS ANGELES, USA

**Modeling the Impact of Emerging COVID-19  
 Variants: An Extended SEIRD Framework with  
 Vaccine Efficacy Adjustment**

Abubakr Nazriev, Pranav Kunderu, Kshitij Purani

COLLEGE OF ENGINEERING, UNIVERSITY OF WASHINGTON,  
 SEATTLE, USA

**Advancement in Gravity Compensation and  
 Control for da Vinci Surgical Robot**

Ankit Shaw

GRADUATE SCHOOL OF COMPUTER SCIENCE AND SYSTEMS  
 ENGINEERING, KYUSHU INSTITUTE OF TECHNOLOGY IIZUKA  
 CITY, JAPAN

**A study on Image Processing Method for Noise  
 Reduction in Digital Holographic Microscopy**

Masaharu Nagashima, Hyun-Woo Kim, Myungjin  
 Cho, Min-Chul Lee

TOTTORI UNIVERSITY GRADUATE SCHOOL OF ENGINEERING  
 TOTTORI, JAPAN

**Muscle Fatigue Estimation Model Based on  
 EMG Improvement of Versatility Using  
 Physical Features and Multiple Regression  
 Analysis**

Kosuke Nakashima, Daisuke Kushida

DEPARTMENT OF SCIENCE THOMPSON RIVERS UNIVERSITY  
 KAMLOOPS, CANADA

**Transfer Learning Based Skin Cancer  
 Detection Using Convolutional Neural  
 Networks**

Saeid Moradi, Mateen Shaikh

FACULTY OF SCIENCE AND ENGINEERING SAGA UNIVERSITY  
 SAGA, JAPAN

**Development of a quantitative evaluation  
 system for static electricity induced  
 luminescence using image processing**

Taiga Eguchi, Nanami Ishizu, Jin Yien Lee, Yuki Fujio,  
 Osamu Fukuda, Kazuya Kikunaga

CALIFORNIA NORTHSTATE UNIVERSITY ELK GROVE, USA

**AI Prediction of Kendo Helmet Insert Efficacy  
 ---Assessing Concussion Prevention  
 Potential---**

Adelheid Spantzel, Arnold Spantzel,  
 Hillary Chu, Stephanie Yeh

ELECTRICAL POWER SYSTEMS AND INFORMATION TECHNOLOGY  
 UNIVERSITÄT DER BUNDESWEHR MÜNCHEN NEUBIBERG,  
 GERMANY

**Novel coils for efficient electromagnetic  
 stimulation of multiple cell cultures**

Benjamin Lohse, Dominik Mihalj, Kris Haskoçelaj, Susanna Gerike,  
 Julian Hellmann-Regen Carolina Kanig, Manuel Kuder,  
 Thomas Weyh