





















# **CALL FOR PAPERS**



## **IMPORTANT DATES**

#### 15 November 2023

Special Session & Workshop **Proposals Deadline** 

## 15 December 2023

Competition & Tutorial **Proposals Deadline** 

# **15 January 2024**

Paper Submission Deadline

## 15 March 2024

Paper Acceptance Notification

# 1 May 2024

Final Paper Submission & Early Registration Deadline

# 30 June - 5 July 2024

IEEE WCCI 2024 Yokohama, Japan IEEE WCCI is the world's largest technical event on computational intelligence, featuring the three flagship conferences of the IEEE Computational Intelligence Society (CIS) under one roof: The International Joint Conference on Neural Networks (IJCNN), the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) and the IEEE Congress on Evolutionary Computation (IEEE CEC).

IEEE WCCI 2024 will be held in Yokohama, Japan. Yokohama is a city that inspires academic fusion and multidisciplinary & industrial association. The Yokohama area boasts a number of universities, institutes and companies of advanced information technology, electronics, robotics, mobility, medicine and foods. IEEE WCCI 2024 held in this area will strongly inspire the attendees to imagine nextgeneration science and technology as the fusion of AI, physiology and psychology as well as a cooperation with intelligence-related industries.

IJCNN 2024 The International Joint Conference on Neural Networks (IJCNN) covers a wide range of topics in the field of neural networks, from biological neural networks to artificial neural computation.

IEEE CEC 2024 The IEEE Congress on Evolutionary Computation (IEEE CEC) covers all topics in evolutionary computation from theory to real-world applications.

FUZZ-IEEE 2024 The IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) covers all topics in fuzzy systems from theory to real-world applications.

#### **CALL FOR PAPERS**

Papers for IEEE WCCI 2024 should be submitted electronically through the Congress website at wcci2024.org, and will be refereed by experts in the fields and ranked based on the criteria of originality, significance, quality and clarity.

## **CALL FOR TUTORIALS**

IEEE WCCI 2024 will feature pre-Congress tutorials, covering fundamental and advanced topics in computational intelligence. A tutorial proposal should include title, outline, expected enrollment, and presenter/organizer biography. Inquiries regarding tutorials should be addressed to Tutorials Chairs.

## **CALL FOR SPECIAL SESSION PROPOSALS**

IEEE WCCI 2024 solicits proposals for special sessions within the technical scope of the three conferences. Special sessions, to be organized by internationally recognized experts, aim to bring together researchers in special focused topics. Cross-fertilization of the three technical disciplines and newly emerging research areas are strongly encouraged. Inquiries regarding special sessions and proposals should be addressed to Special Sessions Chairs.

#### **CALL FOR COMPETITION PROPOSALS**

IEEE WCCI 2024 will host competitions to stimulate research in computational intelligence. A competition proposal should include descriptions of the problem(s) addressed, evaluation procedures, and a biography of the organizers. Inquiries regarding competitions should be addressed to the Competitions Chair.



# WCC1 2024

# ORGANIZING COMMITTEE

#### **GENERAL CHAIRS**

Akira Hirose, Japan Hisao Ishibuchi, China

#### **IJCNN CONFERENCE CHAIR**

Chrisina Jane, UK

#### **IJCNN TECHNICAL CHAIRS**

Zeng-Guang Hou, China Barbara Hammer, Germany Teresa Ludermir, Brazil Seiichi Ozawa, Japan

#### **FUZZ-IEEE CONFERENCE CHAIR**

Sansanee Auephanwiriyakul, Thailand

#### **FUZZ-IEEE TECHNICAL CHAIRS**

Nipon Theera-Umpon, Thailand Keeley Crockett, UK Mihail Popescu, USA

#### **CEC CONFERENCE CHAIR**

Bing Xue, New Zealand

#### **CEC TECHNICAL CHAIRS**

Carlos A. Coello, Mexico Xiaodong Li, Australia Juergen Branke, UK Nelishia Pillay, South Africa Mengjie Zhang, New Zealand

#### **WCCI CHAIRS**

#### **FINANCE CHAIR**

Seiichi Ozawa, Japan

#### **SPONSORSHIP CHAIR**

Toshiaki Omori, Japan Teijiro Isokawa, Japan

#### **EXHIBITION CHAIR**

**Tomohiro (Tom) Shibata,** Japan

Hideaki Yamamoto, Japan

#### **PUBLICATION CHAIR**

Kazushi Ikeda, Japan

#### **PAPER SUBMISSION CHAIRS**

Keiichi Horio, Japan Hiroaki Wagatsuma, Japan Kei Ohnishi, Japan

# PUBLICITY/PUBLIC RELATIONS CHAIR

Junichiro Yoshimoto, Japan Kanta Tachibana, Japan

#### **PLENARY SESSION CHAIRS**

Derong Liu, China Kenji Doya, Japan Joao M. Costa Sousa, Portugal Oscar Cordon, Spain

#### **SPECIAL SESSION CHAIRS**

Robi Polikar, USA
Marie-Jeanne Lesot, France
Mika Sato-Ilic, Japan
Handing Wang, China
Noriyasu Homma, Japan
Yasue Mitsukura, Japan

#### **TUTORIAL CHAIRS**

Naoyuki Kubota, Japan Jesus Chamorro, Spain Chuan-Kang Ting, Taiwan

#### **WORKSHOP CHAIRS**

Rieko Osu, Japan Derek T. Anderson, USA Ying Bi, New Zealand

#### **PANEL SESSION CHAIRS**

Hitoshi Iba, Japan Susana Vieira, Portugal Yaochu Jin, UK Hava Siegelmann, USA Hiroshi Yamakawa, Japan

# CONFLICT-OF-INTEREST CHAIRS

Christian Wagner, UK
Chee Seng Chan, Malaysia
Sanaz Mostaghim, Germany

# DIVERSITY AND INCLUSION CHAIR

**Dipti Srinivasan,** Singapore

## **INDUSTRY LIAISON CHAIRS**

**Asim Roy,** USA **Hakaru Tamukoh,** Japan

#### **COMPETITION CHAIRS**

**Anna Wilbik,** Netherlands **Jialin Liu,** China

#### **AWARD CHAIR**

Masashi Sugiyama, Japan

#### **STUDENT ACTIVITIES CHAIRS**

Mikiko Sato, Japan Eckhard Hitzer, Japan Hayaru Shouno, Japan

# MOBILE APP AND SOCIAL MEDIA CHAIRS

Hirosato Seki, Japan Yasuo Kudo, Japan Sou Nobukawa, Japan

#### **TECHNICAL TOUR CHAIRS**

Toshiyuki Yamane, Japan Akira Oyama, Japan Eiji Uchibe, Japan Shinya Watanabe, Japan

#### **ON-LINE CONFERENCE CHAIRS**

Koichiro Yamauchi, Japan Hisashi Handa, Japan Hiroyuki Sato, Japan Naoki Masuyama, Japan

## **LOCAL ARRANGEMENT CHAIRS**

Hiroyuki Torikai, Japan Ryosho Nakane, Japan Gouhei Tanaka, Japan Tomoe Entani, Japan Takashi Matsubara, Japan

#### **WCCI PROGRAM**

#### **COORDINATION CHAIR**

Yusuke Nojima, Japan
INTERNATIONAL PUBLICITY
CHAIRS

Jose Maria Alonso-Moral, Spain Guilherme Barreto, Brazil

Beatrice Ombuki-Berman, Canada Min Jiang, China

Ferrante Neri, UK
Zhen Ni, USA
Hemant Singh, Australia

Nishchal K. Verma, India