

December 15- 17, 2022  
NTUB, Taoyuan Campus, Taiwan

**Introduction.** The 2022 Workshop on Algorithms, Bioinformatics, and Computation Theory in conjunction with 2022 International Computer Symposium (ICS 2022) will be held at National Taipei University of Business, Taoyuan, Taiwan, on December 15-17, 2022. ICS is one of the most prestigious international ICT symposiums held in Taiwan. Founded in 1973, it is intended to provide a forum for researchers, educators, and professionals to exchange their discoveries and practices, and to explore future trends and applications in computer technologies. The biennial symposium offers a great opportunity to share research experiences and to discuss potential new trends in the ICT industry. ICS 2022 will provide workshops, panels and keynotes to facilitate discourse on and deepen the understanding of the challenges in computer and communication technologies.

All the papers will be published to the symposium in Springer-Verlag CCIS series (<https://www.springer.com/series/7899>), Communications in Computer and Information Science. CCIS is abstracted/indexed in DBLP, Google Scholar, EI-Compendex, Mathematical Reviews, SCImago, Scopus. Papers of high quality will be invited to special issues of **Theoretical Computer Science (TCS)** related to the topics of WABCT 2022.

**The Topics of WABCT 2022** to be covered include (but are not limited to) the following:

- Algorithms and Data Structures
- Algorithmic Game Theory
- Approximation Algorithms and Online Algorithms
- Automata, Languages, Logic, and Computability
- Complexity Theory
- Computational Learning Theory and Knowledge Discovery
- Cryptography, Reliability and Security, and Database Theory
- Computational Biology and Bioinformatics
- Computational Algebra, Geometry, and Number Theory
- Graph Drawing and Information Visualization
- Graph Theory, Communication Networks, and Optimization
- Parallel and Distributed Computing
- Fault Tolerant Computing and Fault Diagnosis
- Deep Learning Algorithms and Applications

**Submission Instruction.** Authors are invited to submit high-quality manuscripts reporting original unpublished research in the topics related to the symposium. Simultaneous submission to other conferences or workshops with published proceedings is not allowed. Each submission should consist of the main part of the paper, not exceeding 12 pages (including the title page and the references), plus an optional clearly marked appendix (to be read at the discretion of the program committee). Any figure pertaining to the main part of the paper should be included therein (within the 12 page limit). The first page must include an indication of whether the paper is eligible for the best student paper award. Papers that deviate from these guidelines risk being rejected without consideration of their merits. Submission is through the EasyChair conference system. The submission process requires registration to create an EasyChair account prior to submission..

Before submission, authors should carefully read over the submission guidelines, located at <https://ics2022.ntub.edu.tw>. All papers must be submitted in an electronic format according to the conference paper submission guidelines at the website. Submission page: <https://easychair.org/conferences/?con=ics2022>.

**Awards** will be given to the best paper and the best student paper. To be eligible for the best student paper award, at least one of the paper authors must be a full-time student at the time of submission, and the student(s) must have made a significant contribution to the paper. The program committee may decline to make these awards or may split them.

**Contact.** All questions about WABCT 2022 should be emailed to [ics2022@ntub.edu.tw](mailto:ics2022@ntub.edu.tw)

## Workshop co-Chairs

- Jou-Ming Chang, National Taipei University of Business, Taiwan
- Sun-Yuan Hsieh, National Cheng Kung University, Taiwan
- Ling-Ju Hung, National Taipei University of Business, Taiwan
- Ralf Klasing, CNRS and University of Bordeaux, France
- Chia-Wei Lee, National Tatung University, Taiwan

## Workshop Program Committee:

- Matthias Bentert, TU Berlin, Germany
- Hans-Joachim Boeckenhauer, ETH Zurich, Switzerland
- Arnaud Casteigts, University of Bordeaux, France
- Ho-Lin Chen, National Taiwan University, Taiwan
- Po-An Chen, National Yang Ming Chiao Tung Univ., Taiwan
- Eddie Cheng, Oakland University, USA
- Hsin-Hung Chou, National Chi Nan University, Taiwan
- Thomas Erlebach, Durham University, UK
- Jianxi Fan, Soochow University, China
- Florent Foucaud, LIMOS - Université Clermont Auvergne, France
- Leszek Gasieniec, University of Liverpool, UK
- Wing-Kai Hon, National Tsing Hua University, Taiwan
- Sanpawat Kantabutra, Chiang Mai University, Thailand
- Hung-Yu Kao, National Cheng Kung University, Taiwan
- Christian Komusiewicz, Philipps-Universität Marburg, Germany
- Van Bang Le, University of Rostock, Germany
- Chung-Shou Liao, National Tsing Hua University, Taiwan
- Cheng-Kuan Lin, National Yang Ming Chiao Tung Univ., Taiwan
- Chuang-Chieh Lin, Tamkang University, Taiwan
- Tobias Mömke, University of Augsburg, Germany
- Kung-Jui Pai, Ming Chi University of Technology, Taiwan
- Tomasz Radzik, King's College London, UK
- Peter Rossmanith, RWTH Aachen University, Germany
- Dajin Wang, Montclair State University, USA
- Hung-Lung Wang, National Taiwan Normal University, Taiwan
- Weili Wu, University of Texas at Dallas, USA
- Jules Wulms, TU Wien, Austria
- Dong Xiang, Tsinghua University, China
- Tomoyuki Yamakami, University of Fukui, Japan
- Shuming Zhou, Fujian Normal University, China

## Important Dates

- Full paper submission: ~~Sept. 15~~ ~~Sept. 22~~ Oct. 7, 2022 (AoE)
- Paper notification: ~~Oct. 22~~ Oct. 31, 2022
- Camera-ready paper due date: ~~Oct. 31~~ Nov. 15, 2022
- Conference dates: December 15-17, 2022