

CALL FOR PAPERS

2022 IEEE International Conference on Big Data and Smart Computing

January 17(Mon.)-20(Thu.), 2022, Bangkok, Thailand

(May switch to online event depending on the COVID-19 situation)

<http://www.bigcomputing.org>



Big data and smart computing are emerging research fields that have been drawing much attention from diverse disciplines including computer science, information technology and social sciences. The goal of the International Conference on Big Data and Smart Computing (BigComp), initiated by KIIE (Korean Institute of Information Scientists and Engineers), is to provide an international forum for exchanging ideas and information on current studies, challenges, research results, system developments, and practical experiences in these emerging fields. Following the successes of the previous BigComp conferences in Bangkok, Thailand (2014), Jeju, Korea (2015), Hong Kong, China (2016), Jeju, Korea (2017), Shanghai, China (2018), Kyoto, Japan (2019), Busan, Korea (2020), and Jeju, Korea (2021), the 2022 IEEE International Conference on Big Data and Smart Computing (IEEE BigComp 2022) will be held in Bangkok, Thailand. The conference is co-sponsored by IEEE and KIIE. IEEE BigComp 2022 invites authors to submit original research papers and original work-in-progress reports on big data and smart computing.

Topic Areas

The topics of interest for IEEE BigComp2022 include (but are not limited to) the following:

- Techniques, models and algorithms for big data
- Machine learning and AI for big data
- Hardware software infrastructure for big data
- Data mining, graph mining, and data science
- Web search and information retrieval
- Models and tools for smart computing
- Smart devices and hardware
- Big data applications, bioinformatics, multimedia, smartphones, etc.
- Tools and systems for big data
- Cloud and grid computing for big data
- Security and privacy for big data
- Big data analytics and social media
- Infrastructure and platform for smart computing
- Mobile communications and networks
- Smart location-based services

Submission

Original papers that have not been published previously or are not under review in other journals or conferences will be considered. Papers must be formatted in PDF according to the IEEE two-column format for conference proceedings and submitted through EasyChair, <http://www.easychair.org> and the direct link for paper submission is <https://easychair.org/conferences/?conf=ieeebigcomp2022>. Papers can be either regular or short papers, where regular papers are limited to 8 pages and short ones to 4 pages. BigComp2022 adopts double-blind review policy. Submissions must be properly anonymized, and lack of anonymization will result in a desk rejection.

Journal Publication

Accepted papers will be published in the conference proceedings to be submitted to IEEE Xplore (pending), and a set of selected papers will be invited for possible publication to the following SCI(E) journals after further revision and extension:

- Journal of Supercomputing
- Sensors
- World Wide Web (pending)
- Data and Knowledge Engineering
- International Journal of Data Mining in Bioinformatics

Important Dates (Timezone: AoE)

- Workshop proposal submission due: August 31, 2021 → September 08, 2021
- Tutorial proposal submission due: August 31, 2021
- Full/short paper submission due: September 30, 2021
- Acceptance notification: November 23, 2021
- Camera-ready copies due: December 07, 2021
- Author registration due: December 18, 2021
- Early-registration due: December 28, 2021
- Conference dates: January 17-20, 2022

General Co-Chairs:

- Herwig Unger (Univ. of Hagen, Germany)
- Young-Kuk Kim (Chungnam National Univ., Korea)

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- Joo-Yeon Lee (Ajou Univ., Korea)
- Phayung Meesad (KMUTNB, Thailand)

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- Sung-Bae Cho (Yonsei Univ., Korea)
- Stephan Pareigis (Hamburg University of Applied Sciences, Germany)
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Workshop Co-Chairs

- Young-guk Ha (Konkuk University, Korea)
- Jinho Kim (Kangwon Natl' Univ., Korea)
- Atsuyuki Morishima (University of Tsukuba)
- Christian Wagner (University of Nottingham, U.K.)

Tutorial Chairs

- Wook-Shin Han (Postech, Korea)
- Julien Bourgeois (FEMTO-ST, France)
- Se-Young Yun (KAIST, Korea)

Penal Co-Chairs

- Steven E. Whang (KAIST, Korea)
- Yasushi Sakurai (Osaka University, Japan)

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- Chunrong Yuan (University of Cologne, Germany)
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- Joonho Kwon (Pusan National University, Korea)
- Shinsuke Nakajima (Kyoto Sangyo University, Japan)

Journal Special Issue Co-Chairs

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- Ee-Peng Lim (Singapore Management University, Singapore)

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- Chaokun Wang (Tsinghua University, China)
- Kazutoshi Sumiya (Kwansei Gakuin University, Japan)

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- Young-Koo Lee (Kyung-Hee University, Korea)
- Younho Seong (North Carolina A&T State University, USA)

Steering Committee Liaison Chair

- Wookey Lee (Inha Univ., Korea)