# ARC 2022

# The 18th International Symposium on Applied Reconfigurable Computing

**19-20 Sep, Tsinghua University Beijing, China (Virtually)**

## Call for Papers

With the great surge of computing demands from various domains, reconfigurable computing has been playing more and more important roles, via providing customizing solutions and sophisticated hardware operations for better time-to-solution and energy-solution. More cutting-edge reconfigurable techniques have also been widely studied, to bring revolutionary breakthroughs. ARC 2022 aims to bring together researchers and practitioners of reconfigurable computing with an emphasis on practical applications of this promising technology.

The ARC 2022 proceedings will be published as a volume in Springer's Lecture Notes in Computer Science (LNCS) series, and will also be available through the SpringerLink online service.

Springer

## Important date

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| System Open: | April 1st, 2022 | Notification: | Jun. 17, 2022 |
| Submission Due: | April 20, 2022 | Camera-Ready: | July 18, 2022 |

Web: https://nicsefc.ee.tsinghua.edu.cn/detail.html?id=1030

## Topics of Interest

**Design Methods & Tools**
- High-level Languages & Compilations
- Simulation & Synthesis
- Estimation Techniques
- Design Space Exploration
- Run-Time Systems & Virtualization

**Applications**
- Security & Cryptography
- Time Sensitive/Critical Networks
- Big Data, HPC, Event Processing
- Embedded Computing & DSP
- Robotics, Space, Bioinformatics, Automotive
- Safety & Mission Critical Systems
- Deep Learning & Neural Networks

**Architectures**
- Self-adaptive Systems
- Heterogeneous & Embedded MPSoCs
- Low-Power Designs
- Approximate Computing
- Fine-/Coarse-/Mixed-grained
- Interconnect (NoCs, ...)
- Resilient & Fault Tolerant
- Close-to-Sensor & Close-to-Memory Computing

**Trends (in)**
- Teaching RC
- Surveys and Future Trends
- Benchmarks
- Emerging Technologies
- Cyberphysical Systems

## Organizers

**General Chair**
*Yu Wang,*
*Tsinghua University, China*

**Program Chairs**
*Wei Xue,*
*Tsinghua University, China*
*Thomas Chau,*
*Samsung AI Centre, UK*

**Local Chairs**
*Lin Gan, Mengxue Qi*
*Tsinghua University, China*

**Proceeding Chair**
*Yun Liang,*
*Peking University, China*

**Journal Special Issues**
*Zhao Liu*
*NSCC-Wuxi, China*

**Finance & Sponsor Chairs**
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*Shuo Li,*
*Tsinghua University, China*