



Recent rapid advancements in information and computer science present both challenges and opportunities for researchers, practitioners, and policy makers. New methods, techniques, and tools proposed from areas such as artificial intelligence, machine learning, and data mining help address challenging and complex problems more accurately and efficiently. On the other hand, challenges in handling and exploiting a huge amount of available data, in data security, and in realizing these advancements to serve societies, just to name a few, remain to be resolved. There are also needs for realizing these advancements in information and computer science to support the digital transformation efforts around the world.

NAFOSTED Conference on Information and Computer Science (NICS) is an international forum for researchers, practitioners, and policy makers to present and discuss recent advancements and future directions in addressing challenging problems in the field of information and computer science. NICS is organized annually by the Vietnam's National Foundation for Science and Technology Development (NAFOSTED).

NICS 2020 is jointly sponsored by IEEE, NAFOSTED, and Vietnam National University - Ho Chi Minh city (VNUHCM). The conference will be hosted by the University of Science, VNUHCM on November 26-27, 2020 and in Ho Chi Minh city, Vietnam.

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CALL FOR PAPERS

You are invited to contribute your original work to **NICS 2020**. Topics of interest belong to the following, but not limited to, areas:

Foundations of Computer Science

Theory of computation
 Algorithms and data structures
 Programming language theory
 Applied computer science
 Computer security and cryptography
 Computational science
 Concurrent, parallel and distributed systems

Computational Intelligence

Language and speech processing
 Soft computing
 Computer vision
 Bioinformatics
 Knowledge discovery
 Data mining
 Machine learning & deep learning
 Computational biology
 Agent-based systems
 Semantic web
 Information extraction and retrieval

Software Engineering

Agile software development
 Mining software engineering repositories
 Program analysis, synthesis, repair, and comprehension
 Component-based, model-driven software engineering
 Software process, modeling, design, and architecture
 Multi-core programming, real-time systems
 Software testing, validation, and verification
 Software services and cloud computing services
 Software tools and environments
 Programming languages
 Human-computer interface and interaction
 Requirements and reverse engineering.

Communication and Networking

Wireless communications
 Signal processing for communications
 Network architecture
 Network protocols and security
 Parallel and distributed computing
 Grid computing
 Cloud computing
 Mobile and ubiquitous computing
 Quantum communications
 Network security

SUBMISSION GUIDELINES

Submissions must be written in English, up to 6 pages in length, formatted according to the [IEEE guidelines](#), and submitted via EDAS at <https://edas.info/N27661>.

All submissions will be reviewed by at least three members of the Technical Program Committee.

At least one author of each accepted paper is required to pay a registration fee and to present the paper either **in-person** at the conference or **online**. Accepted papers presented at the conference will be submitted for inclusion into IEEE Xplore.

IMPORTANT DATES (UTC-12)

Submission deadline: **September 21, 2020 (firm)**
 Acceptance notification: **October 19, 2020**
 Camera-ready deadline: **October 30, 2020**
 Conference: **November 26-27, 2020**

Website: <http://nafosted-nics.org>
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