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CALL FOR PAPER

Special Session

on

***“Recent Computation Techniques in Science and
Engineering Applications”***

in

International Conference

on

Technological Advancements in Computational Sciences

(ICTACS-2022)

10th – 12th October 2022

at

**Amity University, Tashkent City. Street Labsak, Building-70, 100028,
Uzbekistan.**

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**All accepted & presented papers of the Conference by duly registered
authors, will be submitted to [IEEE Xplore](#) Digital Library for Inclusion.**

Session Chair:

- **Dr. Ram Naresh, Amity University in Tashkent**
- **Prof. (Dr.) Shakhnoza Sultanova, Tashkent State Technical University**
- **Mr. Sudhanshu Tripathi, Amity University in Tashkent**

Important Weblinks:

- To visit Conference Website, [click here](#)
- For Research Paper Submission, [click here](#)
Research Paper/ Article/ Manuscript will be submitted through [EasyChair](#) only.
If you don't have [EasyChair](#) account, please [create](#) one.
- To view special session details, [click here](#)
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Important Dates:

Paper Submission Deadline:	06-July-2022
Notification of Acceptance:	20-August-2022
Camera Ready Paper Submission Deadline:	10-September-2022
Last Date of Registration:	20-September-2022
Conference Date:	10 th – 12 th October 2022

[Amity University](#) is research driven University which offers higher education in diverse field from Engineering, Management, Life Sciences, Applied Science and the like. Amity University provides quality platform for research in field of Academics. The campus is organizing International Conference on Computation, Automation and Knowledge Management on 10th – 12th October 2022.

This Conference includes many topics which were deeply deliberated, and which brewed new ideas. Thus, giving rise to new avenues for researcher. We aim to take those concepts further to derive fresh hypothesis and arrive at the logical deductions. The participation of scientist from across the globe was very encouraging in our last conferences organized in India. This time we are anticipating even larger congregation from more diverse domains as we are reaching out too many eminent philosophers, thinkers and academicians from scientist fraternity.

Aim and Scope:

This session aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of computational approach for science and technological development. The role of artificial intelligence, machine learning, internet of things etc., brings in exciting approaches to attack the complex problems being encountered. The interdependency of different domain provides greater areas for consideration while deducing postulates. Mathematical modelling has come to stay as integral component to test the computational designs, for their veracity and usefulness. Computational models are often coupled with high performance computing to solve complex physical problems arising in Engineering analysis and design.

It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of science, technology and allied research ranging from natural science to nano, pharma, engineering, human and space science.

Sub-themes (but not limited to):

The focus of session will be on computation techniques in science and engineering applications like

- Green communications
- Resource allocation
- Cognitive radio networks
- Full-duplex radio communication
- Ultra-reliable low-latency communication
- Wireless edge caching
- Machine learning for communications
- Large intelligent surface-assisted communications.
- Density functional theory simulations
- First principles calculations
- Molecular Dynamics
- Quantum mechanical calculations
- Nanomaterials and applications
- Nanoscience and nanotechnology
- Material science
- Modelling of semiconductor devices
- Ultrasonic transducer materials
- Modelling of nuclear reactors
- AI and ML in molecular dynamics
- AI and ML in prediction of material properties
- Non-destructive Evaluations/ Testing
- Modelling of Sensors and Transducers
- Physical Acoustics
- Signal and Image Processing
- Under Water acoustics
- Thermophysical Properties of Materials

Note: It is a mandatory requirement that all papers submitted for this session must be e-mailed to tripathisudhanshu@gmail.com, stripathi1@amity.edu, rnaresh@amity.edu along with [EasyChair](#) submission.

In case of any query, please write to us on:

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