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## Editorial

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The changing scenario of academics in India exerts a greater thrust on manifesting a creative learning environment where diffusion of innovation takes place at a rapid pace. Every institution is trying to escalate greater heights by strengthening its research component for knowledge creation. Apart from enhancing test scores in examination today's youngsters must elicit a response towards contributing to the existing stock of knowledge. Achieving these broader objective organizations are showing commitments to boost a research environment in the campus. In this direction Interscience Research Network is taking a promising step in creating a benchmark solution for the undergraduate students. As it is observed that at the masters or Ph.D level the curriculum is embodied with certain dissertation work to build familiarity with thesis writing and publication. Unfortunately Bachelor level students are residing beyond such a scope. UARJ is a step towards magnifying the resourcefulness of the undergrads by recognizing their inner potential and giving it a shape through an enriched journal. The objective of UARJ is to unfold the intellectual inertia of the students and motivating them to develop a powerful articulation of scientific insights striking to their cognitions.

First of its kind in India the journal aims to serve undergraduates all the institutions, universities and colleges across the country and abroad. It also provides a forum of discussion on different engineering and science areas through its conferences.

I am extremely delighted to present the first volume and first issue of the journal to the academic community. The journal since at its nascent infancy requires a lot of effort and determination to qualify for different international indexing. We anticipate a natural growth of the journal in subsequent issues.

As it is an interdisciplinary journal it covers a wide spectrum of areas with it. These areas are discusses below:

**Engineering Sciences:** Computational Science and Engineering, Electrical Sciences and Engineering, Electronics and Solid state Physics, Theoretical and computational Mechanics and Mechanical engineering, Thermal science, Automobile Engineering, Manufacturing Science and Engineering, Chemical engineering and Physical metallurgy, etc.

**Material Sciences:** Nano Sciences, Energy and green materials.

**Physical Sciences:** Condensed matter theory and experiment, statistical physics, semiconductor materials physics, biophysics, nano physics, polymer physics, organic electronics, computational material science, soft matter. Mathematics: Fundamental Groups, Simplicial Homology and Triangulations.

**Life Sciences:** bioinformatics, developmental biology, Infectious and non-infectious diseases, biochemistry, molecular biology, genetics, life-history evolution, immunology, circadian biology, animal behaviour, behavioural ecology, evolutionary genetics, experimental evolution, chronobiology, behavior.

**Chemical Sciences:** Solid state chemistry, theoretical/computational chemistry, inorganic, physical, organic chemistry.

**Atmospheric Sciences:** Atmospheric boundary layer, near-surface environment, radiation, solar-terrestrial relations, monsoon dynamics, modelling.

In this first volume and issue I congratulate all the authors for their contribution and immense support. I owe indebtedness to our reviewers, technical committee members and other supporting staff in accomplishing such a noble task. I wish all success to the authors and anticipate their continuity in all our endeavour.

#### **Editor-in-Chief**

**Prof. (Dr.) Srikanta Patnaik**

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