

AWARENESS

Newer Horizons in Human Excellence



About the Journal

The journal Awareness is dedicated to promoting and disseminating knowledge derived from innovative research that serves humanity, all forms of life, and their environments. It aims to foster deeper understanding by integrating empirical, experimental, experiential, and spiritual dimensions of knowledge across diverse disciplines. At its core, the journal seeks to expand the horizons of collaborative and empirical research, motivated by a love for humanity, child-like curiosity, and an unwavering commitment to truth. Awareness aims to be a publicly accessible platform for fresh, creative knowledge and shared scholarly exchange, thus embracing the principle that knowledge, like light, must be shared freely and openly to dispel ignorance and inspire the pursuit of human excellence. Only through such open exchange can the journal fulfill its commitment to the ideals of the University for Human Excellence. The journal also provides a forum for exploring critical issues related to the advancement of human excellence, welcoming a wide range of perspectives across multiple fields. It publishes original research articles, reviews, perspectives, editorials, commentaries, and book reviews, all of which reflect the personal views of the authors. These contributions do not represent the official stance of the University or the institutions affiliated with the authors, editors, or reviewers, preserving the journal's commitment to intellectual independence and diversity of thought.

JOURNAL PARTICULARS

Title	AWARENESS – Newer Horizons in Human Excellence
Frequency	Bi – Annual
ISSN	3107-9881
Publisher	Sri Sathya Sai University for Human Excellence
Chief Editor	Prof. Kanwaljeet J. S. Anand
Starting Year	2024
Subject	Multidisciplinary
Language	English
Publication format	Online
E-mail ID	awareness.journals@sssuhe.ac.in
Website	https://awarenessjournals.com/
Author Guidelines	https://awarenessjournals.com/author-instructions
Privacy Policy	https://www.awarenessjournals.com/public/img/pdf/privacy-policy.pdf
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Poetry

Boundaries via Distance: Topologically Speaking

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Key words: Topology; boundary; distance; philosophy

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Boundaries via Distance: Topologically Speaking

A probing mind with queries,
Conditions and consequences,
Nets of thoughts converging
Seeking the solutions fitting.
Mathematical thinking- an idea
Solid and precise, yet so intangible.

Math-a fearsome field to ever so many,
A way of thinking with precision;
A language of mind in focus,
Where logic forms bricks to bolster
To build the structures for giants to stand.

Each mind has a language
To be nurtured, cajoled and pampered,
To lay foundations strong to withstand
The tempests of things to come;
This language is part of mind, so abstract,
Who will dare to keep it there?

Citation: Bhamini M. P. N.;
Awareness, 3 (2): 89-92



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Or

Is it beyond a language of mind?

Is this a form of thought endowed
With a philosophy of its own mold?
Does that create a path for mind
To follow what we want to find?
Isn't one's thought abstract by nature?
Can anyone see one's own thought?

So

Being abstract is part of nature.

Why do we fear what we can't see?
Freedom and beauty of abstractness,
A combo of such rare class!
Encompassing depths of sea.
Epsilon, delta all so clear,
Neighborhoods of countless many,
Bringing all beyond and together,
With different sense of, oh, so near.

Topologists, they say, don't see a difference,
'Coffee cups from doughnuts'
Why so, how absurd, are they blind!
Doughnut and coffee cups, how so different!

How close a point is from another
In the structure-the topology- which is created;
Bend it, mold it in a shape so well,
Be careful not to break and leave some.
There is no difference in the substance
Of the new incarnation to the one before!
I have heard of this philosophy
As the essence of nature, the core.

As a child is taught to count
 A sense of distance forms with it:
 How far apart is one from another?
 Numbers give this sense as such.
 Distance notion builds Calculus,
 Analysis and so on,
 Structures of limit, continuity, and beyond.
 Creating possibilities of countless
 Applications, problems' solutions
 Could never have been possible
 But for these wings of abstractness!

As we move from number sets
 To sets of any, arbitrarily conceived,
 Can we have this distance concept?
 Yes, we can, here comes the notion,
 The space with a metric so defined,
 An abstract form of distance,
 A set with distance, call it a Metric Space.

The nearness concept in a metric space
 Guided by the 'metric'-
 Subtle connection to a numerical notion.
 Yet with freedom of structure of sets
 And keeping Calculus, Analysis intact,
 But rich enough to build on more.

Taking cue from this structure of sets
 Topology, created by great minds
 Able to see in abstract and beyond.
 Topological space- a set with a structure
 Defined on the collection of its subsets.
 The structure-the Topology-
 Tells the nearness of a point from another
 Epsilon, delta, so abstract
 Pave the way for more fluid
 Treatment of continuity, convergence and such
 Keeping foundations learned before
 Safe and giving room for more.

Beauty of this abstract distance,
Nearness notion so thought of
Without numerical value claiming it,
Free to fly high, yet knows the distance,
Shines so well, all encompassing,
Calculus, Analysis, Metric Spaces and all!
Topology-the abstract distance,
Makes it possible for sets of points
Come together or stay apart.

Boundaries formed, distance comes in,
Positions are taken with choices in,
Philosophies of minds blend in,
A tool with an eye on the goal.
Collectively civilizations fostered,
Wonder the all-embracing nature,
Philosophical key- a notion to nurture?
Topology-a mathematical philosophy raised.

Author's Note: When work is done in a specific field, within the boundary of a field, the effect of the work does not stay within that boundary. The effect of the research is universal. Topology is one such field within the universe of mathematics that blurs most boundaries., and therefore, its ripple effects can be noted across all scientific fields.

Supplementary Materials: None.

Author Contributions: N/A

Funding: None.

Acknowledgments: None.

Conflicts of Interest: None.

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