



## Call for Papers

### Special Session on

### “Bio-Inspired Techniques in Signal Processing, Communication and Antennas (BTSCA)”

**Session Chair:** Dr. Chirag Arora,

Associate Professor, KIET Group of Institutions, Ghaziabad

### Theme of Session:

The main aim of this special session is to provide opportunity to the scientific community to utilize bio-inspired solutions for development of signal processing systems, communication devices and antennas. Several world-renowned organizations have sponsored and created laboratories and research centers in order to understand the behavior of living organisms. The researches that use the bio-inspired geometry for the development of signal processing systems, communication devices and antennas can be divided into two groups - systems with bio-inspired geometries in animals and systems with bio-inspired geometries in plants. This session will encourage the researchers to further explore their research in this domain.

### Topics of Interest:

Based on the above-mentioned theme, including following topics (**but not limited to these**), original (un-published) research contributions are invited.



- Wearable bio-inspired prefractal antennas
- Bio-inspired polar microstrip antennas
  - Leaf-shaped antennas from Gielis superformula
  - Tulip flower-shaped antenna
  - Wearable ginkgo biloba leaf-shaped antenna
  - Jasmine flower-shaped antenna
- Wearable Bidens pilosa leaf-shaped antenna
- Bio-inspired antennas based on perturbation techniques
- Bio-inspired UWB antenna
- Printed Monopole Bioinspired Antenna
- Broadband Antennas
- Metamaterial Antennas
- Frequency-selective surfaces
- Electromagnetic bandgap structures
- Smart antennas
- MIMO antennas
- Antenna systems with digital beam forming
- Integrated antennas
- Antenna arrays
- Antenna systems with digital beam forming
- Mobile and satellite communications
- Wireless power transfer and energy harvesting
- Cognitive radio
- Wireless multimedia communications
- RFID technologies
- Signal processing antennas and arrays
- Small mobile device antennas
- Smart antennas and arrays
- Space-time coding
- Vehicular antennas
- Wireless mesh networks
- Wireless security
- Wireless sensor networks

**Paper Submission Process:** (By Email to the following ID only)

Please submit your paper (in word/pdf format) at Email: [specialsession.call@gmail.com](mailto:specialsession.call@gmail.com) with “**Special Session-BTSCA**” mentioned in the subject line.

*For any further queries related to this special session, please contact the session chair at:*

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