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Seminars and Conferences

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Journal of Applicable Chemistry

3rd International Conference on
ARTIFICIAL INTELLIGENCE
APPLICATIONS IN
CHEMICAL, MEDICAL TOOLS & ENGINEERING

Organized by
JOURNAL OF APPLICABLE CHEMISRY, INDIA
(International Peer Reviewed Bi-Monthly Journal)
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30th and 31st May, 2024 (AIACME)
Venue: Hanoi, Vietnam.

Scope of Conference: AI of first generation (McCarthy era) comprised of heuristic symbolic expert systems based on first-order formal logic without using well-nurtured theory of probability. The applicable products are Mycin to detect blood diseases and to prescribe the optimum medicines and dosages. The system does not use theory of probability/stochastic algorithms limiting its scope. Another noteworthy expert system was Dendral for structure elucidation of organic molecules by mass spectroscopy.

The second generation of AI included numerical expert systems and the family of neural networks in developing integrated (numerical + heuristic) machine learning products. It widened the scope of domain specific and domain independent knowledge based products in almost all transdisciplinary areas of science/engineering/technology as well as defence/commerce/communication.

The explosion of instrumental/demographic data to petabytes in time and space and evolutionary/pereto optimal tools revolutionized the data/knowledge/intelligence cycle. The multi-level (sequential parallel hierarchical) cyclic/acyclic network architectures and deep learning procedures on peta/hexa level computational hardware revolutionized computation/prediction tasks in all fields of research. The outcome of large language models LLMs (Chatbot, Bard) and capsule/matrix neural units of this decade opened a new window in see-understand-predict control tasks. They led to probing into general intelligence/super intelligence with a tinge of consciousness which is in its nascent form.

A few of the multitude of disciplines imparting the pereto optimal benefits through AI are

Chemistry: Synthesis, structure elucidation, structure-property relationships, material preparation of desired response

Medicine: Disease diagnosis, medicine prescription, surgery. The subdisciplines are pulmonology, cardiology, gynaecology, ophthalmology, neurology, oncology, radiology, deep stimulation brain surgery etc.

Engineering: Fault diagnosis, designs

Technology: Manufacture of desired products

About Journal of Applicable Chemistry

Journal of Applicable Chemistry was started in the year 2012 under stewardship of Professor Kaza Somasekhara Rao as Editor-in Chief. It is an interdisciplinary online International Peer Reviewed Bi-Monthly Journal. This journal publishes reviews, research papers, short communications, research pedagogy, chemical education and AAA (Advancement Application Announcement) in chemical sciences. Journal published conference papers on request. The journal successfully completed 12 volumes from the inception.

Conference Registration Fee

Indian delegates: Rs. 10,000/-

Foreign delegates: USD 500

Full length papers will be published in JOAC free of charge after normal peer refereeing process.

Abstract : 300-400 words in Times Roman font.

Last date of receiving abstracts : March 1st, 2024.

Acceptance information : March 10th, 2024.

Full-length paper submission : April 28th, 2024.

Send Abstract and full length paper to
sraokaza1947@gmail.com, Contac No. +91 98489 42618

Climate: In May and June temperature at Hanoi will be 25-30°C.

Organizing Committee

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(Editor-in-Chief, JOAC and ICC Life time Achievement Awardee) President of Conference, Andhra Pradesh, India.

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Yesteryears' science blooms into Today's technology and Tomorrow' prototype products