BRNS Sponsored
Two days National Level Symposium On
"Artificial Intelligence based Cyber Security for Nuclear Safety and Risk-Informed Asset Management: Challenges and Opportunities"
(AICSNSR-2024)
29.01.2024 & 30.01.2024
Registration Form

Name:...

Degree: UG / PG / FACULTY

Designation:...

Department:..

Institution:...

Mailingaddress......................................

....

....

Phone:...

Mobile:..

Email:..

Accommodationrequired:Yes /No

Date:
Place:
Signature

CHIEF PATRON

Shri. T.S.R.Khannaiyann,

Chairman

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ORGANIZING SECRETARY
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CONVENER
Dr.K.Mahendrakan
Associate Professor / Dept. of ECE

CO-ORDINATOR
Dr.A.Purushothaman
Associate Professor / Dept. of ECE

The duly filled application form be sent to:

Dr.K.Mahendrakan
Associate Professor
Department of ECE
Hindusthan Institute of Technology
Coimbatore – 641 032.
Contact no : +919976064001
E-mail :dr.mahendrakan.k@hit.edu.in
The details of this Symposium is available in the websitehttp://www.hit.edu.in/

BRNS Sponsored
Two days National Level Symposium On
"Artificial Intelligence based Cyber Security for Nuclear Safety and Risk-Informed Asset Management: Challenges and Opportunities"
29.01.2024 & 30.01.2024

Organised by
Department of
Electronics and Communication
Engineering

HINDUSTHAN INSTITUTE OF TECHNOLOGY
Othakkalmandapam, Coimbatore – 32
Approved by AICTE, New Delhi &Affiliated to
Anna University, Chennai,
Accredited with "A" Grade by NAAC And
Accredited with NBA
Phone:0422-2610833 Fax:0422-2610833
E-Mail : hitprincipal@hindusthan.net

ABOUT THE COLLEGE

Hindusthan Institute of Technology is one of the leading Engineering Colleges imparting quality Technical Education to the aspirants from Tamilnadu and other neighboring states. It is run by Hindusthan Educational and Charitable Trust under the leadership of Sri.T.S.R.Khannaiyann and Smt. T.R.K Sarasuwathy Khannaiyann.

The Institution was established in the year 2007 and is affiliated to Anna University Chennai. The Institution is well known for its high educational standards with excellent infrastructures, spread over 200 acres and is located on the Coimbatore - Pollachi National Highway. The Institution currently offers 7 UG and 3 PG programs.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was started in the year 2007 with vision to develop Centre of Excellence in the wide area of Electronics & Communication Engineering Field and to promote innovative research and development.

The department has well equipped laboratories with latest simulation Software and eminent faculty member with good academic records. Our Department got **Research Centre** Recognition from Centre for Research Anna University Chennai.Under R&D many students doing their project in our department itself.

SCOPE OF THE SYMPOSIUM
Objective

One of the biggest challenges is the potential for hackers to use AI to develop more sophisticated cyber threats.AI-enabled systems can operate 24/7 to monitor networks and systems for threats. By automating these tasks, nuclear security professionals have the time to focus on more strategic tasks and respond more efficiently to incidents when they occur.AI can detect unknown malware variants by analyzing their behavior. AI-based endpoint security solutions use machine learning algorithms to analyze endpoint behavior and detect potential threats. Over the last few years, extensive development work, in the area of Reliability Engineering in general and Probabilistic Risk Assessment in particular, has been performed as part of risk-informed applications. However, there is a need to take the level of knowledge to risk-based applications in support of asset management for complex systems like nuclear plants, space, aviation systems and process industries.

By combining digital simulations of real nuclear facilities with AI systems, the industry can optimize complex procedures and improve reactor design, performance and safety. Such optimization can increase the efficiency of operations and reduce maintenance costs.The objective of this symposium is to provide a forum for technical discussions on recent developments in the area of advances in risk and reliability modelling and assessment. The symposium invites research and technical papers of high quality, bringing out the original contributions, for publication in the symposium proceedings. As usual, it is proposed to publish a book containing the papers to be presented in the symposium.

SYMPOSIUM TOPICS

- ❖ Software reliability, PoF Models, Passive System Reliability,
- ❖ Investigation of Safety Critical Issues,
- ❖ Probabilistic Safety Assessment,
- ❖ Dynamic Models for Reliability Analysis,
- ❖ Stress Analysis in Support of Failure Prediction, Reliability Based Design and Evaluation,
- ❖ Prognostics & Health Management,
- ❖ Severe Accident Management,
- ❖ Heat Transfer and Thermal Management in Electronic System,
- ❖ Remaining life Prediction in Support of Ageing Management,
- ❖ Fuzzy Reliability, Uncertainty & Sensitivity Modelling, Human Reliability Modelling,
- ❖ Failure Analysis Role of Advanced Methods in Human Factors,
- ❖ Artificial Intelligence Methods & Operational Reliability,Risk-informed Asset Management,
- ❖ Risk-based Applications, Risk-based Management Systems, Nuclear Facilities, structural Systems, Electronics & Communication Systems

TARGET AUDIENCE:
Faculty members, Research Scholars, UG and PG students from academic institutes, Personnel from AERB, DAE & DAE (Aided Institutions), R & D organization and related Industries.

ACCOMMODATION
Accommodation and boarding if reuired will be provied in the college premises on chargeable basis

REGISTRATION DETAILS:
All participants have to pay Rs.500 as registration fee by Demand Draft in favour of "**The Principal, Hindusthan Institute of Technolgy**", Payable at **Coimbatore**.

SCHEDULED DATE
Last Date for Receipt of Paper : **23.01.2024**
Intimation of Selection by Mail : **25.01.2024**
Confirmation by Participants : **27.01.2024**