



Koneru Lakshmaiah Education Foundation

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CIRCULAR

15-12-2022

This is to inform all faculty members & Students of the Department of Computer Science & Information Technology , CSIT department will conduct Expert talk on “ **Industry 4.0 : Role of AI and data Science**”on **20th Dec 2022** at Koneru Lakshmaiah Education Foundation, Vaddeswaram.

Event Details:

- **Name of Event :** Expert talk
- **Topic:** Classification algorithms
- **Presenter:** Dr.A. Abraham , Director – MIR labs, USA.
- **Faculty Co-Ordinator:** Mrs. S. Anjali Devi ,Assistant Professor, CS&IT
- **Date:** **20th Dec 2022**
- **Time & Venue:** 11:00AM, MS –Teams

HoD, Dept. of CSIT
Dr. K. Amarendra

Expert talk on- “Industry 4.0 : Role of AI and data Science”

The session aims to empower participants with the knowledge, insights, and motivation needed to embrace the transformative potential of AI and Data Science in the era of Industry 4.0, leading to enhanced efficiency, innovation, and competitiveness in industrial processes.. On **20th Dec 2022**, at 11:00AM,MS-Teams , a significant faculty Guest lecture was conducted at Koneru Lakshmaiah Education Foundation, Vaddeswaram Campus. The session, titled “**Industry 4.0 : Role of AI and data Science** ” was led by : Dr.A. Abraham , Director – MIR labs, USA.

Objective:

- Educate industry professionals about the role of AI and Data Science in the context of Industry 4.0.
- Highlight the significance of leveraging AI and Data Science technologies to drive innovation and efficiency in industrial processes.
- Provide insights into the potential applications and benefits of AI and Data Science in various sectors of Industry 4.0.

Description:

- Introduction to Industry 4.0 and its pillars, emphasizing the integration of digital technologies in manufacturing and production processes.
- Explanation of the role of AI (Artificial Intelligence) and Data Science in Industry 4.0, including predictive maintenance, process optimization, quality control, supply chain management, and smart manufacturing.
- Discussion on the use of AI and Data Science techniques such as machine learning, predictive analytics, anomaly detection, and computer vision in industrial settings.
- Case studies and real-world examples showcasing successful implementations of AI and Data Science in different industries.
- Overview of challenges and considerations in adopting AI and Data Science solutions in industrial environments, including data privacy, cybersecurity, and ethical concerns.
- Opportunities for collaboration and partnership between industry stakeholders and AI/Data Science experts to drive innovation and digital transformation in manufacturing and related sectors.

Outcomes:

- Increased awareness and understanding of the role of AI and Data Science in Industry 4.0.
- Enhanced knowledge of potential applications and benefits of AI and Data Science technologies in industrial processes.
- Inspiration to explore and implement AI and Data Science solutions to improve efficiency, productivity, and competitiveness in the industry.

- Identification of opportunities for collaboration and partnerships to drive innovation and digital transformation.
- Preparation to address challenges and considerations associated with the adoption of AI and Data Science in industrial environments.
- Motivation to stay updated with advancements in AI and Data Science for continuous improvement and innovation in Industry 4.0 initiatives.

- **No. Of Participants: 70**

Event Photos:

KL CS&IT **Efit**

Guest Lecture

(ONLINE)

Dr. A. Abraham
Director – MIR Labs
(Global Operations),
USA

Title of Expert Talk:
Industry 4.0: Role of AI and
Data Sciences

20-12-2022 [TUESDAY]
11.00 A.M.-12.00 NOON

Multi-objective Designed FIS - Real World Application

Algorithm	Ref	RMSE	Err	No. of Rules
MLP	[24]	14.5	17	
DBN	[25]	12.2	15	
RBF Net	[26]	13.5	16	
ANN	[27]	14.8	16	
MLP	[28]	15.2	16	
MLP	[29]	15.4	16	
T2FS	[30]	15.6	17	
T2FS	[31]	15.2	16	

300 features
protein particle's
dissolution-rate.

High noise and
redundancy
because data
were obtained
from various
experiments
instruments.

Automatic Design of Hierarchical Takagi-Sugeno Type Fuzzy Systems

The problems in designing a hierarchical fuzzy logic system includes the following:

- Selecting an appropriate hierarchical structure;
- Selecting the inputs for each fuzzy TS sub-model
- Determining the rule base for each fuzzy TS sub-model
- Optimizing the parameters in the antecedent parts and the linear weights in the consequent parts.

Multi-Objective Flexible Neural Trees

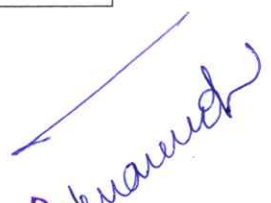
Flexible Neural Trees

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Participants List:**CSIT-Y20 & Y21 List**

S.No.	ID Number	Name
1	2100090001	ALLA DHANYA SRI
2	2100090002	ALURU KOUSIK
3	2100090003	ANDHAVARAPU RAKESH
4	2100090004	CHEBROLU NANDAN
5	2100090005	CHILAKALA BHARATH REDDY
6	2100090006	CHINNAM LAKSHMI SAI SARAYU
7	2100090007	DHULIPUDI SARANYA
8	2100090008	Ede Heman Narasimha Sai
9	2100090009	ELANJIPURATHU STABIN JAMES
10	2100090010	GATTI VENKATA SAKETH NADH
11	2100090011	GORIJAVOLU SOHITH CHOWDARY
12	2100090012	JAVVADI VARUN RAJ
13	2100090013	JAVVADI SANDEEP
14	2100090014	KANCHANAPALLI SAI CHARAN
15	2100090015	KOTA NAGA VENKAT
16	2100090016	KOTHAGUNDLA MIDHUN SAI
17	2100090017	MANNE SUDHEER KUMAR
18	2100090018	MARUPUDI ESWAR
19	2100090019	YALAMANCHILI SAMEERA
20	2100090020	MUSUNURU HARI KIRAN
21	2100090021	NANDI VARUN SAI
22	2100090022	PARUPALLI VENUSAINADH
23	2100090023	PONNALURI VENKATA DURGA NAGASREE
24	2100090073	GINJUPALLI AVINASH
25	2100090074	PASAM CHANDRA SEKHAR REDDY
26	2100090075	ALLADA KUSHAL CHAITANYA
27	2100090076	PENUGONDRA THARUN
28	2100090024	PULLABHOTLA YASASWINI
29	2100090025	SUBHASREE SIRAM
30	2100090026	ULLAMGUNTA ARYA VARDHAN BHARATH
31	2100090027	VELAGA HEMA VARDHAN
32	2100090028	VELAGALA SUSMITHA
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34	2100090030	GUDIBANDI CHARAN SAI REDDY
35	2100090031	KAKANI VENKATA RAMANA
36	2100090032	JAMPALA AJITH
37	2100090033	MADANABOINA PREM VARA SAI

38	2100090034	AISHWARYA CHEBROLU
39	2100090035	CHEKURI GREESHMANTH
40	2100090037	KAZA VARUN SAI
41	2100090038	TADIBOINA SURYADEV
42	2100090039	PASUPULETI Lokesh Babu
43	2100090040	PUJYAM V S S N K DHEERAJ
44	2100090041	SAREDDULA HITESH YADAV
45	2100090042	MADDIPATI DEDEEPPYA
46	2100090043	ELURI YASASWI LAKSHMI
47	2100090044	POLEPALLY Akash Reddy
48	2100090045	naga sai yashwanth saginala
49	2100090046	NARUKULLA HEMANTH
50	2100090048	YALAMANENI PADMAVATHI DEVI
51	2000050004	NOHITH BORUSU
52	2000050009	SAI NITHIN DINTAKURTHI
53	2000050010	KUSIYO MBANGWETA
54	2000050011	OSWELL SIANYENGELE
55	2000090018	KANTHETI MEGHANA
56	2000090029	PUPPALA VENKATA SAI VINAY LAKSHMAN
57	2000090008	YADLAPALLY CHARAN
58	2000090033	PATCHIGOLLA SAMPATH
59	2000090042	BUSETTY VIGNESH SUPRITH
60	2000090035	SHAIK SOHEL ARSHAD
61	2000090006	GUDIBANDI CHAITANYA SIMHA REDDY
62	2000090030	RAPARLA VENKATA KARTHIK
63	2000090010	DHEERAJ KONDAPALLI
64	2000090014	JAMPALA VENKATA SAILEENATH REDDY
65	2000090034	SHAIK ASAD ASHRAF
66	2000090003	SHAIK AFZAL
67	2000090021	BHOGIREDDY LALITHA S N SATWIKA
68	2000090025	NAIDU SRI LEKHA
69	2000090032	SAKALA RAHUL
70	2000090036	THAMMAREDDY SHYAM CHOWDARY


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