COMPSIG NITT

In This Issue...

Dear friends! COMPSIG NITT is a monthly newsletter to share the research work done in the Pattern recognition and computational intelligence laboratory, Department of Electronics and Communication Engineering, National Institute of Technology Trichy.

Concepts, Ideas pertaining to Computational intelligence, Pattern recognition and Signal processing are also included in this newsletter.

We expect the feedback, comments and articles from you all.

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Team members

1. **Dr.E.S.Gopi, Co-ordinator.**
2. **G.JayaBrindha, Ph.D. Scholar.**
3. **Neema. M, Ph.D. Scholar.**
4. **Rajasekharreddy Poreddy, Ph.D Scholar.**
5. **Vinodha K, Ph.D Scholar.**
6. **Katoj Praveen Kumar, M.Tech, Communication systems.**
7. **Bandi Lithitha Reddy, M.Tech, VLSI.**

Scan the QR code for previous issues of our newsletter

Audio Slides : Pattern Recognition and Computational Intelligence

The students are asked to prepare audio slide as a part of the course evaluation scheme. The distinct topics related to the corresponding courses are assigned to the individual group (with 2 students per team). They are further asked to prepare and present audio slides. In order to ensure the fairness of evaluation, peer opinion on each audio slide was also collected from randomly chosen two other batches in addition to faculty's evaluation. Each batch was encouraged to use different tools for audio slide preparation.

Link to the audio slides

- Artificial Neural Network (ANN)
- Linear Discriminant Analysis (LDA)
- Logistic regression
- Principle Component Analysis (PCA)
- Regression

Recently Accepted Reviewed Book chapters

Two papers were accepted for publication as the reviewed book chapter in the book titled " Constraint Handling in Metaheuristics and Applications". The editors include the people from Central South University, China, University of Veracruz, Mexico, University of Technology Sydney, Australia, Monash university, Malaysia .

- **Lauwanshi, E.S.Gopi,** "Particle Swarm Optimization based Hybrid precoding-decoding design and channel estimation design and channel for Millimeter wave transreceivers".

- **Shailendra, E.S.Gopi,** "Estimation of power allocation for Non Orthogonal Multiple Access using Particle Swarm Optimization and Back propagation Neural Network".

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Coming up Global elective:"Pattern Recognition Course" since 2016 (UG-ECOE15/ECPE22)

Pattern Recognition is offered as a Global elective for B.Tech. in coming semester by Dr. E.S.Gopi, Associate Professor, Dept. of ECE.

-The tentative evaluation scheme is as given below.

- Pre-requisite: Nil.

- The knowledge of Probability, Random process and Linear algebra will be the added advantage.

Tentative evaluation scheme(weightage)-Under flexible curriculum structure.

- **Cycle test 1 (Online) -20%**
- **Cycle test 2 (Online) -20%**
- **Matlab/Python based mini project-20%**
- **Audio slide preparation-10%**
- **End semester online exam-30%**

Link to the video lecture: Pattern Recognition

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On-going Research

- Investigating Regression techniques for solving the sunflower leaf segmentation problem
- Application of machine learning techniques in next generation wireless communication
- Classification of Music composition styles using probabilistic generative model
- Engine health monitoring using Machine learning, Deep learning and Computational intelligence

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Call for papers - MDCWC2020

Registration Details

Online Workshop: 22nd **October to** 24th **October**

Last date for submitting the papers through easychair: 31st **August** 2020 All the accepted papers will be published as the chapter in the Lecture Notes in Electrical Engineering, Springer publications(ISI Proceedings, EI-Compendex, Scopus, Meta press, Web of science) The workshop invites original research contributions/

1. The data driven wireless communicationapplications using ML, DL and CI
2. Optimization algorithm/technique for ML, DL and CI
3. Related mobile data applications

- Status of the submitted papers will be intimated immediate after the review gets over.
- Registration needs to be done within 10 days after getting the notification along with the revised paper and copyright form. Payment through SBI
- Registration is complete once the filledup Google form is submitted: Author registration Participants
- Link to the Website

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Feedback

COMPSIG NITT invites articles and innovative ideas from readers for the Reader's Space column. We expect feedback and comments to monthly newsletter COMPSIG NITT . Readers can share their views in our facebook page, COMPSIGNITT. Those who are interested can be a part of the facebook group.

Follow us on Research gate: COMPSIG NITT

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Quotes

"Where do the evils like corruption arise from? It comes from the never-ending greed. The fight for corruption-free ethical society will have to be fought against this greed and replace it with 'what can I give' spirit." — Dr.A.P.J.Abdul Kalam