Dr. SIVANTHI ADITANAR COLLEGE OF ENGINEERING

TIRUCHENDUR

DEPARTMENT OF COMPUTER SCIENCE *& ENGINEERING*

UG & PG

DEAR READER,

IT'S A GREAT PLEASURE TO PRESENT BEFORE YOU THE NEWSLETTER OF COMPUTER SOCIETY OF INDIA STUDENTS' CHAPTER WHICH HELPS THE ENTIRE CSI FRATERNITY TO KNOW THE ACTIVITIES OF THE STUDENTS' CHAPTER FROM TIME TO TIME.

Volume 1 No.3-2020

Computer Society of India Students' Chapter

PATRON & SBC : Dr.G.Wiselin Jiji, Principal

CSI Coordinators : Dr.R.Jensi, AP/CSE

Mrs.S.V.Anandhi, AP/CSE

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Joint Secretary : Mr. T.Muthu Manikandan,III CSE 'A'

Treasurer : Mr.S.Selvakesavan, IV CSE 'B'

S.NO	DATE	EVENT	CHIEF GUEST
1.	20.1.2020	Poster Design Contest	Mrs.R.R.Bhavani, AP/ CSE
2.	5.2.2020	Motivational talk on placement	S.Ajay Praison, Alumni CSE
3.	13.2.2020	Paper Presentation at SACOESIUM 2020	Dr.E.Wiselin Kiruba, Assistant Professor, Department of Computer Science and Engineering ,University Voc College Of Engineering,Thoothukudi, Mrs.S.V.Anandhi,AP/CSE Dr.SACOE
4.	19.2.2020	Banner Design Contest	Mr.D.Kesavaraja, AP/CSE
5.	25.2.2020	Guest Lecture on Filtering Techniques in Image Processing	Mrs.S.V.Anandhi,AP/CSE
6.	28.2.2020	One Day Workshop on Angular JS	Mr.J.Begin Samuel, Technical Manager, HCL Technologies, Chennai
7.	5.3.2020	Technical Quiz	Mrs.M.Antony Vijaya,AP/CSE
8.	10.3.2020	Web Designing Contest for PG Students	Dr.G.R.Jainish,ASP/CSE
9.	11.3.2020	Guest Lecture On Fuzzy Logic	Mr.T.Saravana Kumar, ASP/CSE
10.	14.3.2020	One day National Conference on Advanced Trends in Computer Science and Engineering(NCATCSE'2K20)	Mr.P.Sivasubramanian,IT Analyst,TCS,Chennai
11.	14.3.2020	Guest Lecture on Recent Tools in Web Technology	Mr.P.Sivasubramanian,IT Analyst,TCS,Chennai

1. **Poster Design Contest** was conducted for UG Students of CSE on 20/01/2020. Mrs.R.R.Bhavani, AP/ CSE judged the contest

2. **Motivational talk on placement** was organised for UG Students of CSE on 05/02/2020. S.Ajay Praison, Alumni CSE handled the session

3. **Paper Presentation at SACOESIUM 2020** was organized for the Students of CSE on 13.02.2020. Dr.E.Wiselin Kiruba, Assistant Professor, Department of Computer Science andEngineering,UniversityVocCollegeOfEngineering,Thoothukudi,Mrs.S.V.Anandhi,

AP/CSE, Dr.SACOE acted as jury.

4. **Banner Design Contest** was conducted for UG Students of CSE on 19/02/2020. Mr.D.Kesavaraja, AP/CSE judged the contest.

5. **Guest Lecture on Filtering Techniques in Image Processing** was organized for UG and PG Students of CSE on 25/02/2020. Mrs.S.V.Anandhi,AP/CSE handled the session

6. One Day Workshop on Angular JS was organized for UG Students of CSE on 28.2.2020. Mr.J.Begin Samuel, Technical Manager, HCL Technologies, Chennai handled the session

7. Technical Quiz Contest was conducted for UG Students of CSE on 05/03/2020. Mrs.M.Antony Vijaya, AP/CSE judged the contest.

8.Web Designing Contest was conducted for PG Students of CSE on 10/03/2020, Dr.G.R.Jainish,ASP/CSE,AP/CSE judged the contest

9.Guest Lecture on On Fuzzy Logic was organized for UG and PG Students of CSE on 11/03/2020. Mr.T.Saravana Kumar, ASP/CSE handled the session

10. One day National Conference on Advanced Trends in Computer Science and Engineering (NCATCSE'2K20) was organized for UG and PG Students of CSE on 14/03/2020

11. **GuestLecture on Recent Tools in Web Technology** was organized for UG Students of CSE on 14.3.2020. Mr.P.Siva Subramanian, IT Analyst, Chennai handled the session

AngularJS

Submitted By- S.Sri Vigneshwar., *IV CSE 'B'*

AngularJS is used in Single Page Application (SPA) projects. It extends HTML DOM with additional attributes and makes it more responsive to user actions. AngularJS is open source, completely free, and used by thousands of developers around the world. It is licensed under theApache license version 2.0

AngularJS is not a library, it's a framework that embraces extending HTML into a more expressive and readable format.AngularJS is a structural framework for dynamic web app. framework that lets you use HTML as your template language and extend HTML's syntax to express your application's components clearly and succinctly.Angular is an opinionated framework on how a CRUD application should be built.Angular is pure client-side technology, written entirely in JavaScript..Angular is designed primarily for developing single-page apps.

There are basically three approaches we could take to relate individual files and AngularJS modules:

- Allow multiple AngularJS modules in one JavaScript file
- Have AngularJS modules spanning multiple JavaScript files
- Define exactly one AngularJS module per JavaScript file

As Angular uses HTML to extend a web page and plain Javascript to add logic, it makes it easy to create a web page using ng-app, ng-controller and some built-in directives such as ng-if, ng-repeat, etc. With the new controller As syntax, newcomers to Angular users can attach functions and data to their controller instead of using scope.

Scope is context where the model is stored so that controllers, directives, and expressions can access it. The values that are stored in variables on the scope are referred to as the model.AngularJS will create a new instance of the Scope class whenever it encounters a scope-creating directive in the DOM tree. The ng-controller directive is an example of scope-creating directive.Each scope is an instance of the Scope class.The scope class has methods that control the scope's lifecycle, provide event-propagation facility, and support the template rendering process.A new scope was created by the ng-controller directive using the Scope.new() method call.rootScope instance gets created when a new application

Fuzzy logic

Submitted By- P.Jasber Raja*, IV CSE 'A'*

Fuzzy logic has been used in numerous **applications** such as facial pattern recognition, air conditioners, washing machines, vacuum cleaners, antiskid braking systems, transmission systems, control of subway systems and unmanned helicopters, knowledge-based systems for multiobjective optimization of power systems
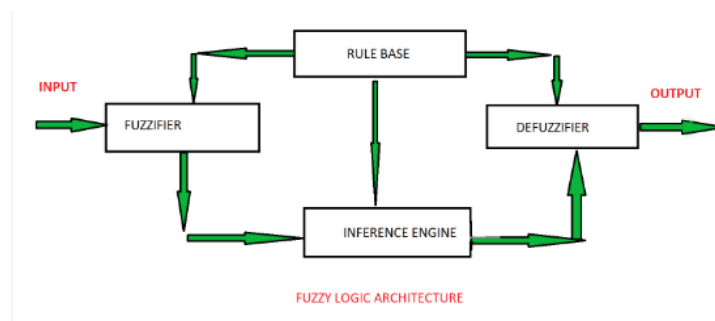
Fuzzy Logic resembles the human decision-making methodology. It deals with vague and imprecise information. This is gross oversimplification of the real-world problems and based on degrees of truth rather than usual true/false or 1/0 like Boolean logic.

Take a look at the above diagram. It shows that in fuzzy systems, the values are indicated by a number in the range from 0 to 1. Here 1.0 represents **absolute truth** and 0.0 represents **absolute falseness**. The number which indicates the value in fuzzy systems is called the **truth value**. In other words, we can say that fuzzy logic is not logic that is fuzzy, but logic that is used to describe fuzziness. There can be numerous other examples like this with the help of which we can understand the concept of fuzzy logic.

ARCHITECTURE

Its Architecture contains four parts :

- RULE BASE: It contains the set of rules and the IF-THEN conditions provided by the experts to govern the decision making system, on the basis of linguistic information. Recent developments in fuzzy theory offer several effective methods for the design and tuning of fuzzy controllers. Most of these developments reduce the number of fuzzy rules.
- FUZZIFICATION: It is used to convert inputs i.e. crisp numbers into fuzzy sets. Crisp inputs are basically the exact inputs measured by sensors and passed into the control system for processing, such as temperature, pressure, rpm's, etc.
- INFERENCE ENGINE: It determines the matching degree of the current fuzzy input with respect to each rule and decides which rules are to be fired according to the input field. Next, the fired rules are combined to form the control actions.
- DEFUZZIFICATION: It is used to convert the fuzzy sets obtained by inference engine into a crisp value. There are several defuzzification methods available and the best suited one is used with a specific expert system to reduce the error.

FUZZY LOGIC ARCHITECTURE

THANK YOU