Chairman's Message

Dr. T. Thyagarajan
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Esteemed Members,

ELECTION: The time for election has come for this forthcoming year. I believe all of you have received the ballot and you can vote on-line or by postal mail, to select the IEEE Region 10 Director-elect 2011-2012 and IEEE President-Elect 201. For the IEEE Region 10 Director-Elect 2011-2012 the candidates are in alphabetic order:

- Jose B. Cruz, JR.,.
- Toshio Fukuda and
- Ramakrishna Kappagantu.

For the IEEE President-Elect 2011 candidates are in alphabetic order: Gordon W. Day and Joseph V. Lillie. Candidate information is available on the on-line ballot. You can vote on <https://www.directvote.net/ieee/> or by postal mail. . In 2009, 14.6% of members from Region 10 voted for the election, which was lower than the world average of 15.3%. Hence, I humbly request all the esteemed members to use their voting rights.

CALL FOR NOMINTATIONS For AWARDS: The R10 Industry Liaison Committee is seeking nominations of the following awards. Please see the webpage for the details (http://ewh.ieee.org/reg/10/ILC/ILCMain.html):

a) 2010 Region 10 Historical Achievement Award -The deadline for submission is at the end of September in 2010.

b) 2010 Region 10 Academia-Industry Partnership Award - The deadline for submission is at the end of August in 2010.

c) 2010 Region 10 MMI Award - The deadline for submission is at the end of August in 2010.

d) 2010 region 10 MIMI Award - The deadline for submission is at the end of August in 2010.

RECAP OF IEEE MADRAS SECTION ACTIVITIES: IT is almost 6 months, since the present Executive committee took over charge (13th FEB-2010) to carryout the IEEE Madras Section activities: I am happy to recall the highlights of the activities carried out by the present Ex-com, since Feb 2010

- Securing **PAN** number for the Section from the Income Tax dept.
- **Financial assistance to 14 conferences – Rs 1,90,000/-**(AVIT-2, MIT, KVCET, KEC-2, SXCCE, BSARU-2, AU Coimbatore, PCET, VMKV, SSN, BIT)

Editorial Team
Mr. H.R. Mohan, Dr. T. Thyagarajan, Dr. S. Salivahanan, Dr. P. Suresh Chander Pal, Mr. T.S. Rangarajan, Mrs. M. Ramalatha

From The Editor's Desk

H.R. Mohan
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Dear Friends,

LINK is pleased to publish a report on the visit of our section chairman Dr. T. Thyagarajan to Japan in Jul 2010 to present two papers in the International Conference on Modeling Identification and Control organized by the Okayama University, Japan and also a report on the visit of our Execom member Dr. N. Kumarappan to Spain in Jul 2010 for presenting two papers in the IEEE World Congress on Computational Intelligence and also chairing a special session on Natural Computation Applied to Power System.

Our Chairman has presented a recap of activities of our section in the last six months in a comprehensive manner. The Section is quite vibrant with the active coordination of the Execom members and participation of members.

The items reported in this issue of LINK include: Guest lecture on "Benefits of IEEE" at K.S. Rangasamy College of Technology, Inauguration of the student branch activities at Bannari Amman Institute of Technology, Inauguration of the Arunai student branch activities and a seminar on "Design for all Insights into We Accessibility", Technical Awareness Programme and a guest lecture on "Recent Trends in Mobile Communication" held at Kongu Engineering College, Student branch inauguration at Anna University – Coimbatore, Inauguration of student branch activities at Senguntar Engineering College and the Campus Placement Initiative programme held at Coimbatore Institute of Engineering and Technology.

A short feature listing tips to save power and an interesting article by a student member on "Automatic shooting gun" along with the proceedings of the monthly technical meeting of the section jointly organized by the section along with IEEE COMSOC, IEEE CS and CSI on "VLSI for Communication Engineers" and an interesting list of computing quotes have also featured in this issue of the LINK.

Due to some un avoidable reasons, we are skipping the InfoContest – 1008. The winners of the InfoContest – 1007 will be published in the Sep issue along with InfoContest – 1009.

The three day workshop on "Cloud Computing" organized by the IEEE Computer Society along with the Computer Society of India Div IV, Chennai Chapter and SIG on Distributed Systems at IIT Madras was a grand success with over 300 delegates participating in the event. A detailed report on this will be published next month. In follow-up on this programme, it is proposed to conduct three one day in depth programmes on a variety cloud computing areas. Pl. await for the details. Also, COMSOC and CS are jointly planning to organize special lecture sessions (6 to 8) for the benefit of students on the applications of computer and communication technologies in Industry. Details of this will be communicated shortly.

The 15th FDP on " High Voltage in Power System and Power Quality'' will be held at Jeppiaar Engineering College during 2-4, Sep 2010. For registration, pl. contact IEEE Madras Section, Ph: 044-2442 3939, Mobile: 9382328776, Email:ieeemas@airtelmail.in

Lecture on "VLSI for Communication Engineers"

IEEE Madras Section, IEEE Communications Society, Madras Chapter, IEEE Computer Society, Madras Chapter and Computer Society of India, Chennai Chapter jointly organized a technical lecture on "VLSI for Communication Engineers" by Mr. S. Sivanantham, Asst Prof. (Selection Grade), VLSI Division, School of Electronics Engineering, VIT University, Vellore.

Dr. T. Thyagarajan, Chairman, IEEE Madras Section welcomed the gathering. In his welcome address he appealed to the student members to spread the message about the lectures organized by the IEEE Madras Section. Dr. N. R. Alamelu, Chairperson, IEEE Communications Society, Madras Chapter introduced the speaker. Shri. H. R. Mohan, Chairman, IEEE Computer Society, Madras Section, presented a memento to the speaker on behalf of the organizing chapters.

Mr. Sivanantham spoke on the role of VLSI in communication engineering. The lecture started with the history of VLSI and the application of VLSI. The lecture included algorithm design and implementation and trends in algorithm design. Various steps involved in the design process were discussed. He also spoke on the various design tools available and the vendors.

Mr. S. Ramasamy, Immediate Past Chairman, Computer Society of India, Madras Chapter, proposed the vote of thanks. The lecture was well attended with a good number of student members.

Inaugration of Arunai IEEE Student Activities & Seminar on "Design For All Insights Into Web Accessibility"

The first activity of the academic year 2010-2011 for Arunai IEEE student branch was initiated on July 15, 2010 at the A.C. Auditorium of Arunai Engineering College, Thiruvannamalai. The activity was a technical seminar on "Design For All Insights Into Web Accessibility" by Mr. Srinivasu Chakravarthulu, Accessibility Manager, Yahoo.

The function began with the traditional Tamizh Thai Vaazthu. Ms. Arthi, Treasurer, IEEE student branch welcomed the gathering. The felicitation was given by Prof. T. Chellathamizhan, HOD, Dept of CSE, Prof. M. Ravichandran, HOD, Dept of IT and Dr.

Arumugam, Director, R & D who recalled the previous year achievements of the branch and congratulated the students for their work.

The chief guest Mr. Srinivasu, briefed on accessibility being a critical criteria in the world of web applications. He put out the fact that disabled people have very limited access to any web application. He talked about various popular screen reader software both commercial and open source such as NVDA that are bringing about many consistent technologies. Though the guest being partially impaired visually was very dynamic and inspired the audience with his humorous talk. He demonstrated accessibility testing on a web page and explained various technical aspects of the process. The audience were showed live videos of people with different challenges working with screen reader and other software. After an interesting questionnaire the program ended with the vote of thanks by Mr. D. Praveen Kumar, Vice Chairman of IEEE student branch.

Chairman's Message continued....

- **Cash Awards to Student branches-3 (Rs 5,000/-)**
- Establishing new **Society Chapters: 2** (MTTS-CH10525 & EDS-CH10544)
- Starting new Affinity groups: **WIE-2** at Dr NGPIT and RMKEC
- Starting new **Student branches: 8** (MAHA- 07071, MEENAKSHI- 05501, S.A -05661, ASAN-05651, NATIONAL-05791, ANNA-Coimbatore-05811, SRI VIDYA-05471, Dr NGP-05511.

- Elevation to **Senior Member Grade-1:** (Dr. Sheila Anand)
- Establishing **norms for giving sponsorship to conferences:** (Vol. 7 (3), March 2010)
- Streamlining **procedure for sponsoring FDPs:** (Vol.7 (5), May 2010)
- Recommending **Financial assistance to 10 UG Projects @ Rs15,000**/- (Vol. 7 (7), July 2010)
- **Improving basic infrastructure** in the Section office (camera, Air conditioners, inverter)

- **Technical Lectures** organized: **7**
- **Ex-com meetings** held: **7**
- Comprehensive **Monthly news bulletins** issued: **7**
- **Faculty Development Programms** Conducted : 2

It is because of the overwhelming support from the esteemed members that, the present ex-com could carryout the above activities. The Ex-com members solicit the same in future too, to continue the professional activities for the benefit of the members.

Affectionate office bearer
Dr. T.THYAGARAJAN

Technical Awareness Program (TAP) at Kongu Engineering College

The WIE affinity group of IEEE student branch of Kongu Engineering College takes active participation in various group activities. One among those group activities includes the Training Program for school students in rural areas. The training program was scheduled on 14thJuly 2010 for the Government Vinoba Higher Secondary School, Thalavaipettai,   Bhavani.

The program started at 11.a.m. with an introduction on the objective of the event.

About 200 students of 11th standard participated in the event. The training focused on the educational stream. Awareness was created among the students about their future and the courses of study that they could choose after school education. Information was provided about various branches of engineering such as Computer Science and Engineering, ECE, Mecahnical etc.,

Basic knowledge on computer science covering computer architecture, 3-G services, Laptop computers, Flash Memory, CDs, Floppies were demonstrated. Videos were displayed for the students to kindle their interest in Engineering and to highlight the benefits of being an engineer.

After the lunch break, "Photo Sink" — a technical event for identifying technological stuff and knowing about them was conducted. It was followed by "Situation Handling" – an event which dealt with enhancing the "Crisis Management" skills of the students.

The participants from IEEE, KEC also imparted basic facts to the participants. They were also made to understand the importance of keeping themselves updated regarding the fast developing technology. Most important of all, the students were encouraged to interact and clear their doubts regarding higher studies and Engineering.

Prizes were distributed to students who were active during the sessions and put forward queries and to those who answered the questions. Thus TAP provided an excellent platform for the rural students to understand and get awareness on higher studies in engineering.

Report by: Ms. Neha Gupta, Email: nehagupta48@gmail.com

Report on Japan visit of Chairman
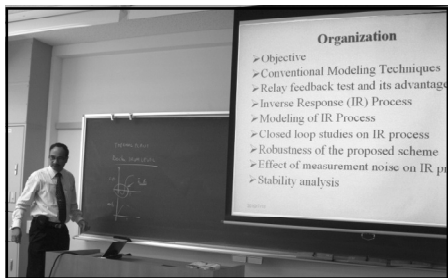
Dr. T. Thyagarajan, Chairman IEEE Madras Section attended the '2010 – ICMIC, International Conference on Modeling Identification and Control' organized by Okayama University, during 17th – 19th July 2010, at Okayama, Japan, with the funding from his employer

The Conference was sponsored by IEEE and selected papers (presented in the Conference) will be published in the 'International Journal of Modeling, Identification and Control'. A total of 191 papers were received from different parts of the world (India, China, Singapore, Japan, Canada, Australia, Indonesia, Iran, UK, and France). There were thirty four parallel sessions with 4 to 6 papers in each session and four plenary sessions. A souvenir containing the plenary speaker details, conference program, abstracts of all the papers, author index and a CD containing full length papers were also released. The welcome reception, Conference Banquet, closing reception, free tour half-a-day tour to Great Set. Bridge, a free ticket to Kndayama Botanical Garden were the other added features of the conference.

Dr. T. Thyagarjan presented the following two papers co-authored by him.

- Modeling and control of inverse response process with time delay using relay feedback test – *T.Thyagarajan, C.Esakiappan, V.Sujatha*

- Eigen structure assignment based multi objective dynamic state feedback controller design for MIMO system using NSGA-II – *S.Sutha, T.Thyagarajan*

Guest Lecture on "Recent Trends in Mobile Communication" at Kongu Engg College

The IEEE Student Branch of Kongu Engineering College organized a guest lecture on 31st July 2010 on the topic "Recent Trends in Mobile Communication" by Mr. R. Mahadevan, Editor, BBC World Service, London (Rtd), Former Director, Dhoordharshan, Trivandrum & Hyderabad,   Member PAC, AIR, DD Chennai.

The Session started with a prayer song at 10:15 AM. The IEEE student's Branch coordinator, Prof. K.Narayanan welcomed the chief guest and the students present there. It was followed by the release of IEEE newsletter

"IEEE Resonance". Mr. R. Mahadevan started his lecture with a gleeful smile expressing his enthusiasm towards the students. He stressed on the importance of effective communication skill in corporate world. He then pointed out the contribution of science and engineering in all fields with real time examples, making the audience to bounce with enthusiasm. He continued to explain the evolution in the life style of human beings through new inventions. He again pointed out the challenges which Indian professionals might be facing in near future. He, then, explained the various recent trends in Mobile Communication. He ended his talk explaining about the impact of communication and science on the modern world.

To express the gratitude of IEEE-KEC, Prof.K.Narayanan presented a memento to the chief guest. Mr. V.C.Sivachandar, Vice-Chairman, IEEE- KEC proposed the vote of thanks on behalf of student volunteers. The event came to an end by extending gratitude to the motherland through national anthem.

IEEE Student Branch Inauguration at Anna Univ. Coimbatore

The IEEE Student branch was inaugurated at Anna University Coimbatore, Academic Campus, Jothipuram, Coimbatore – 641 047 on 8th May 2010. The function started with the prayer song followed by lighting of kuthuvilakku. Welcome address was given by Dr.V.R.Vijaykumar, Head of the Department, Department of ECE, Anna University Coimbatore. Chief Guest of the function, Dr.T.Thyagarajan, Chairman, IEEE Madras Section inaugurated the IEEE Student Branch by unwrapping the approval letter from IEEE to start the Student Branch.

The student branch chairman Mr.S.M.Swamynathan briefed about IEEE activities. The presidential address was given by Dr.T.Kannadasan, Vice Chancellor, Anna University Coimbatore. He appreciated the Department of Electronics and Communication Engineering for taking effort to start the IEEE Student branch.

Chief Guest of the function Dr.T.Thyagarajan, Chairman, IEEE Madras section during his speech highlighted the quoting of Dr.A.P.J.Abdul Kalam and he discussed about the three important connectivity such as physical, electronic and knowledge connectivity in the world. He also pointed out the benefits, values and activities of IEEE. He inspired all the IEEE members to achieve unique quality to become a successful person.

At the end of the programme, mementos were presented to the chief guest and to the Vice Chancellor. The function ended up with the Vote of Thanks by Mr.S.Saravanakumar, IEEE Student branch Counsellor, Anna University Coimbatore.

The following is the list of student branch counsellor and the office bearers.

Sl. No.	Position	Name
1.	Branch Counsellor	Mr.S.Saravanakumar, Lecturer, ECE, Anna University Coimbatore
2.	Chairman	Mr.S.M.Swamynathan, 1st M.E. (Applied Electronics)
3.	Co-Chairman	Ms.G.Shobana, 1st M.E. (Communication Systems)
4.	Secretary	Mr.S.Gopinath, 1st M.E. (Communication Systems)
5.	Treasurer	Ms.RoseMaryPeter, 1st M.E. (VLSI Design)

Activities at Sengunthar Engineering College

The IEEE Student Branch of Erode Sengunthar Engineering College has started its activities of the new academic year 2010-2011. The Inaugural Function of the Student Branch Activities and the Association of Electrical and Electronics Engineers was held jointly at 23rd July 2010 at the Main Seminar Hall of the college.

The Chief Guest of the function was Mr. V. Sankara Narayanan, Additional Chief Engineer TNEB (Rtrd). The function was graced by the presence of the college correspondent Mrs. Vasantha Sudhanandhen, Dr. T. Shanmugam, Advisor, Dr. Arun.V. Parwate, the Principal and Mrs. R. P. Meenaakshi Sundhari, Head of Department, EEE Department.

The function contained two sessions, of which, the first one was the inaugural function where the various office bearers for the academic year were introduced and the plan for the year was released. The second session was a guest lecture by the chief guest of the day Mr. V. Sankara Narayanan, who kept the students spellbound with his time travelling lecture about the evolution of power system networks and finished it beautifully with the present day trends and job opportunities in the areas including renewable energy.

The event was well received by the students and created a thirst among them for more useful programs like this.

Report by: P.Arunmozhi, Student Chair, E-mail: arunmozhi@ieee.org

Campus Placement Initiative at Coimbatore Institute of Engineering and Technology

CIET - IEEE Student Branch of CIET had organized a "RESUME CONTEST" for all the IEEE student members. 89 student members submitted their resumes for the contest. All the submitted resumes were evaluated by the team of faculty members on various parameters like academic profile, technical skills, extra-curricular and co-curricular activities participated. Finally two best resumes (Mr.S.Harinarayanan, IV Year / Department of EEE and Akhil Nair, II Year / Department of IT) were selected and given a


prize money of Rs.300/- and Rs.200/- respectively.

On 23rd July 2010, "APTITUDE TEST" and "GROUP DISCUSSION" were conducted for all the IEEE student members by the final year IEEE Student Volunteers. On the same day, Mr. B. Saravanan, IEEE Student Branch Counselor addressed all the final year B.E / B.Tech students including the IEEE student members on the DO's and DONT's in group discussion, books to be referred for the interview, body language, general interview tips.

Visit our Website
www.ewh.ieee.org/r10/madras

Report on Spain visit of Execom Member
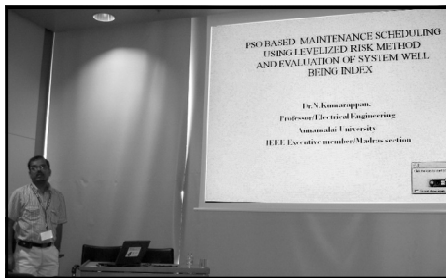
The 2010 IEEE World Congress on Computational Intelligence (IEEEWCCI2010) is the largest technical event in the field of computational intelligence. It hosted three conferences: the 2010 International Joint Conference on Neural Networks (IJCNN 2010), the 2010 IEEE International Conference on Fuzzy systems (Fuzz-IEEE 2010), and the 2010 IEEE Congress on Evolutionary Computation (IEEE CEC 2010). 2010 IEEEWCCI was sponsored by the IEEE-CIS. It was held at CCIB Barcelona, a Mediterranean city located in a privileged position on the northern coast of Spain, during July 18 – 23 2010.

The conference opened with the tutorial session. It offered 28 tutorial sessions, 7 workshops anlong with 5 plenary and 9 invited lectures. The 6 days conference had 6 panel sessions, 291 presentations, 112 special sessions and 4 poster presentations. In the IEEE WCCI 2010 conference nearly 2000 papers were presented.

In the above conference of 2010 IEEE WCCI – CEC (IEEE – CIS) Dr. N Kumarappan, IEEE EXCOM Member, Educational Activity Chair, Madras Section was invited to organize and char a special session titled "Natural Computation Applied to Power System".

He also presented the following two papers

• "Evaluation of Composite Reliability Indices Based on Non-Sequential Monte Carlo Simulation and particle Swarm Optimization"

• "Particle Swarm Optimization Based Maintenance Scheduling Using Levelized Risk Method and Evaluation of System well being Index".

The congress was a great experience and it provided a simulating forum for scientists, engineers, educators and students from all over the world to discuss and present their findings on computational intelligence.

Green tips: 8 secrets to saving lots of power

Back when electricity costs were lower, easy eco-friendly initiatives weren't a high priority. Yet recent surveys have revealed that around two-thirds of businesses now pay more attention to energy efficiency than they did a year ago. Some companies are motivated by rising energy prices; others have a commitment to lowering their carbon footprint.

Here are eight easy ways to save energy at work – and at home. You'll reduce your electricity bill, and also help the environment.

1.   Unplug your appliances

Ever noticed that your mobile phone or iPAQ recharger is hot to touch even when it is not in use? This is because it draws energy the entire time the device is plugged in. Studies have revealed that up to a shocking 75 percent of electricity is used by devices that are "turned off".

To prevent this, simply unplug devices from the wall when you're not using them. You may notice a big difference in your bills.

2.   Switch to power-saving settings

You don't have to be an IT expert to improve your Microsoft® Windows® PC's energy efficiency.

Go to the "Start" button, then click on "Control Panel" and select the "Power Options" menu. Here you can cut your power usage by changing settings from "idle" to "standby". Now every time you take a break and leave your PC running, you will use up to 50 times less electricity.

To save even more electricity, reduce the time delay before your PC switches to a power-saving mode. See the "Power Options" menu to make this quick change.

3.   Turn off your screen saver

Turn off your screen saver to save energy. Studies have revealed that monitors using a screen saver eat up much more energy than those in standby mode.

4.   Monitor options

Monitors draw a lot of electricity. For maximum efficiency, choose an LCD monitor over a CRT model. Turning the brightness down also helps to curb energy usage.

5.   Switch off peripherals

Most computers have a lot of features and peripherals, not all of which are used on a daily basis. Save energy by unplugging or disabling WiFi, Bluetooth, printers, scanners, external drives, card readers, webcams and speakers when you're not using them.

6.   Backup during the day

Even more power can be spared if you schedule your computer's data backup during your workday – perhaps during your lunch break. Doing this means that you won't have to leave your computer on overnight, and you have an excuse to take a proper break during the day.

7.   Buy energy-efficient products

These days ENERGY STAR office equipment is easy to find and affordable to buy. It provides you with dramatic power savings, as much as 90 percent for certain products.

HP designs its ENERGY STAR® products to provide high performance with lower energy usage. For example, new server and workstation systems are designed to maintain power efficiency while running high-throughput, data-intensive applications.

8.   Complete the conservation cycle

When you're finished with your hardware or printing supplies, remember to recycle them. Check out HP's trade-in, donate and recycling options for your used computer or printing hardware, batteries and HP printing supplies.

And don't forget, once you have disposed of your old equipment, you can purchase new energy-efficient solutions.

Courtesy & Source: hp.com

Section Membership as on 15th August 2010

Life Fellow	-	2
Fellow	-	1
Life Senior	-	7
Senior Member	-	77
Life Member	-	4
Member	-	1852
Associate	-	118
Affliate	-	37
Graduate Student Member	-	1054
Student Member	-	5942
Total	-	**9,094**

Automatic shooting gun

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Abstract: In battle field the soldiers have to keep tracking their enemies for every instant. By this time they loose lives of a number of soldiers. Loss due to this can be eliminated by this project in which we are using IMAGE PROCESSING TECHENOLOGY**.** Two short guns are to be placed on soldiers' body (shoulders) with a small camera present on the gun linked to a controller circuit with appropriate memory to store all the required photos. During war time the camera picks up the image and compares with those in the memory and if it doesn't matches, immediately it shoots the person. The whole mechanism is controlled by the separate battery supply system and which can be recharged by piezoelectronic crystal as and when required and which can also done by electronic power supply also.

1. Introduction:

The automatic shooting gun serves as a vital weapon during the warfare. It uses camera and also, sensor which captures the image and detects the presence of the opponent, which is then compared with that of the stored photos, by means of the controller circuit and memory present and accordingly it decides to shoot the enemy or eels continue the monitoring further **.**

2. Techenology Used:

Here we are using image processing technology. Two small guns are going to be placed (front &back) on the body of the army peoples. Above the two guns a small camera will be fixed. Going to a single memory device is fixed to it. Before fixing the memory device we want to upload all our army people & others whom we need to upload. Here we are using human detecting sensors. This sensors will detect weather the Obstacle is human or not. If it is a human it will pass the information to the camera. The camera check the human face is in its memory. If the face is not stored means it will automatically shoot him down dead otherwise if the face is in its memory it will not shoot them
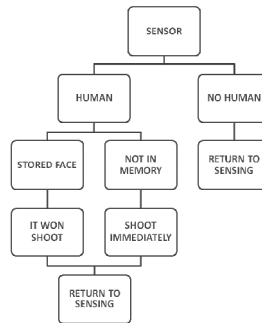
Sensor detection:
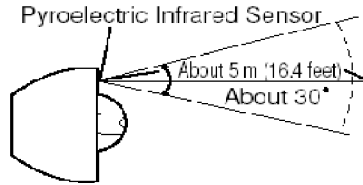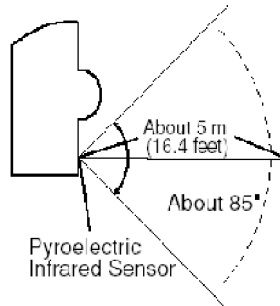
Sensor Range (Side View)

FLOW DIAGRAM:

This technology can also be reversed. By uploading some person or things photo to shoot them down when the camera focused them. If we upload some enemy photo during war time when they recognize by the camera automatically they will shoot them. Other than person, whose photos are not in memory they will be in the safe side.

FLOW DIAGRAM:
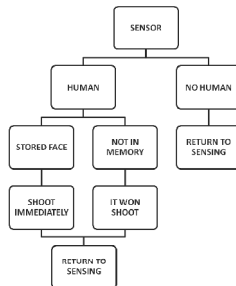
2.1 Aiming: Here a laser light is also fixed for accurate aiming it will shoot down the enemy. Bullets travel straightly along the path of laser so it can accurately shoot the enemy in their forehead.In the program itself we insist that bullet should shoot the enemy in their forehead only.
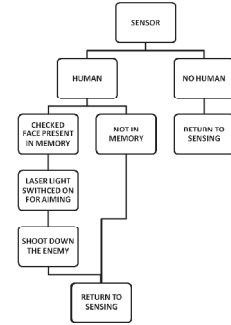

2.2 Camera: Now days in this advance technology we have lots of new camera which can capture the image during night time when there is no light also. So there is no problem for face detection.

The thermal camera option allows for night operation, in fog or any other kind of poor visibility condition. You can place this one almost anywhere and it just won't be found. Working on a 8 volt battery lasting about 10 hours About 700 feet would be more realistic in most situations.

2.3 Gun Structure:

This kind of gun will be placed in the solider body. so that bullet can move as the
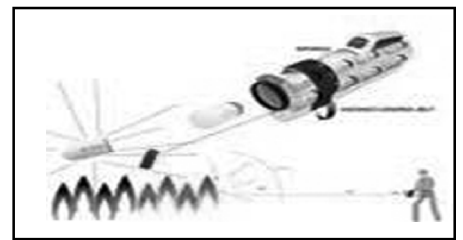
direction of laser. It will reach the target correctly. Bullets will be loaded around the gun. So that we can place lots of bullets inside / in the top a camera will be place for monitoring. Gun can move according to the sensatio

3. Battery Charging:

Piezoelectronic material is attached along with the circuit. While the army people running vibration is converted into electricity so that battery gets recharged. We can also change to new battery if needed.

4. Power Consumption:

- CAMERA-8V
- MICRO CONTROLLER-5V
- MACHANISIM WOK FO PUSHING BULLET-3V
- TOTAL POWE CONSUMTION-12V

The power for this project is totally 12V only so it can be easily recharge through piezoelectric Materials.

5. Application:

- It is mainly used in defense sides
- It can place on the human body during war time
- We can place the gun in the remote place (or) most security place by hiding somewhere

- It is also hang around the army tends during night time security
- It can also used to shoot the person who where kid napping some important person.
- Flying gun can used in some purpose like to attack terrorist who capture Mumbai taj hotel.
- It can send where army peoples are difficult to enter and attack.

6. Advantages:

- It is developed mainly for security system.
- Output will be accurate.
- Other than human also we can use the gun for particulars task.

7. Conclusion:

Implementation of this project saves lots of life and increase the security system. Its output will be accurate. We can easily identity the enemy.

8. Reference:

- An Introduction to. Digital *Image Processing*. Bill Silver. Chief Technology Officer. Cognex Corporation, Modular Vision Systems Division
- Pyramid methods in *image processing*. E. H. Adelson | C. H. Anderson | J. R. Bergen | P. J. Burt | J. M. Ogden. Pyramid methods in *image processing*.
- *image processing* community, albeit for applications other than. *IMAGE PROCESSING*. He is also a guest editor for the IEEE TRANSACTIONS

Guest Lecture at K. S. Rangasamy College of Technology

The IEEE student branch of K.S.Rangasamy College of Technology, Tiruchengode organized a Guest Lecture on "BENEFITS OF IEEE" on 26th Jul 2010. The day began with the ceremonial tribute to the Almighty. Mrs. Richu Paul, IEEE Graduate Student Member, KSRCT welcomed the gathering and as a token of our love she presented a memento to the Guest.

Mr. S.Saravanan, IEEE Coordinator/AP, ECE, KSRCT introduced the Chief Guest, Dr. K. Sam Shanmugam, AT & T Distinguished Professor, Electrical and Computer Engineering, University of Kansas, Lawrence, Kansas. He briefly described about the benefits of IEEE and went on defining the courses and research programs in University of Kansas.

The lecture was attended by faculty members, PG students. The talk was highly interactive and thought provoking with questions raised by the participants and clarified as the presentation progressed.

The function came to a formal closure with Ms. C. Indhumathi, IEEE Graduate Student Member, thanking everyone who made the event a grand success. After the program refreshments were served to the staff members & students.

Report by: Mr. S. Saravanan,AP/ECE, saravanans@ksrct.ac.in

Great Computing Quotes

"Computers are useless. They can only give you answers." *(Pablo Picasso)*

"Computers are like bikinis. They save people a lot of guesswork." *(Sam Ewing)*

"They have computers, and they may have other weapons of mass destruction." *(Janet Reno)*

"That's what's cool about working with computers. They don't argue, they remember everything, and they don't drink all your beer." *(Paul Leary)*

"If the automobile had followed the same development cycle as the computer, a Rolls-Royce would today cost $100, get a million miles per gallon, and explode once a year, killing everyone inside." *(Robert X. Cringely)*

"Most software today is very much like an Egyptian pyramid with millions of bricks piled on top of each other, with no structural integrity, but just done by brute force and thousands of slaves." *(Alan Kay)*

"I've finally learned what 'upward compatible' means. It means we get to keep all our old mistakes." *(Dennie van Tassel)*

"There's an old story about the person who wished his computer were as easy to use as his telephone. That wish has come true, since I no longer know how to use my telephone." *(Bjarne Stroustrup)*

"The trouble with programmers is that you can never tell what a programmer is doing until it's too late." *(Seymour Cray)*

"Don't worry if it doesn't work right. If everything did, you'd be out of a job." *(Mosher's Law of Software Engineering)*

"Optimism is an occupational hazard of programming; feedback is the treatment." *(Kent Beck)*

"The best thing about a boolean is even if you are wrong, you are only off by a bit." *(Anonymous)*

"There are only two kinds of programming languages: those people always bitch about and those nobody uses." *(Bjarne Stroustrup)*

"Computer language design is just like a stroll in the park. Jurassic Park, that is." *Larry Wall)*

"Software is like sex: It's better when it's free." *(Linus Torvalds)*

"The first 90% of the code accounts for the first 90% of the development time. The remaining 10% of the code accounts for the other 90% of the development time." *(Tom Cargill)*

"If debugging is the process of removing bugs, then programming must be the process of putting them in." *(Edsger W. Dijkstra)*

"Software is like entropy: It is difficult to grasp, weighs nothing, and obeys the Second Law of Thermodynamics; i.e., it always increases." *(Norman Augustine)*

IEEE Student Branch Inauguration at Bannari Amman Institute of Technology

The IEEE student branch activities at Bannari Amman Institute of Technology Sathyamangalam was inaugurated on 26th July 2010 and the Chief Guest was Mr. M. Ramasubramanian Commander, Indian Navy, Coimbatore. The function started with prayer song recited by Ms. R. Ashwini. Mr. R. Karthikeyen IEEE Student Branch Chairman welcomed the gathering. In the welcome address the branch chairman narrated the steady growth of the student branch. The Women in Engineering faculty coordinator Mrs. J. Karpagam introduced all the committee members of the student branch. The Dean of the Electrical and Electronics Engineering Department and the branch counselor Dr. G. Gurusamy Sr. Memeber IEEE gave an account of IEEE organizational structure and the territorial areas of 10 regions. Dr. Gurusamy listed the journals IEEE Spectrum, Institute, Link which carry interesting articles on technology and future developments .He gave a glimpse on various awards instituted by IEEE Student Branch. Dr. A. Shanmugam, Principal presided over the function. Dr. Shanmugam in his address lauded the technological service rendered by IEEE and the varied journals brought out by its print media. IEEE caters the needs of young engineers and conducts seminars and workshops on recent topics for the benefit of its members.

Ms. A. Kavitha introduced the Chief Guest to the audience. The chief guest who is an Instrumentation Engineer gave the uses of naval aircrafts and their maintenance. He gave information about technical skills, personality development, and inter-personal skills and stressed the importance of communication skills. He added that students learning only software are not enough and they should know core subjects also. He stressed subjects of other disciplines are also equally important to gain complete knowledge. The students should learn the subjects right from the beginning and study in depth to remember technological developments. He said that all engineering students should be learners first and educators next. He said that young engineers should always learn new developments and innovations. Finally Mr. G. Gowtham, Vice Chairman of the student branch proposed the vote of thanks. The function ended with National Anthem.

Report by Dr G Gurusamy. IEEE Student Branch Counselor

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