

The Department of Electrical and Electronics Engineering has organized the National conference on "Flourishing areas in Electrical and Electronics Engineering-NACOFEE'16" and the Department of Electronics and Communication Engineering has organized the National Conference on "Signal Processing and VLSI Design-NCSPVD'16" on 28.12.2016 in Chera Hall.

This conference is committed to become the preferred and common hub for the researchers, academicians, practicing Engineers, and industrialists to exhibit their new research findings. It seeks solutions for the research/industrial challenges/problems, and makes avenue to develop networking with hundreds of professionals in the field Electrical, Electronics and communication.

The programme was started with Inaugural session by **10.00AM**. **Dr.S.Sivakumar**, Vice-Principal & HOD (EEE) has delivered the welcome address to the conference gatherings and honored the chief guest **Dr.D.Devaraj**, Dean Academics (EEE), Kalasalingam University, Krishnan Koil and **Dr.R.Vimalathithan**, Professor/ECE, Karpagam College of Engineering. **Dr. J.Arputha Vijaya Selvi**, Dean(R & D) and HOD (ECE), has felicitated the chief guest with memento as the token of honor.

The Chief Guest of NACOFEE'16, **Dr.D.Devaraj**, Dean Academics (EEE), Kalasalingam University, Krishnan Koil has released the conference proceedings and CD to the gatherings of the conference and it was received by **Dr.S.Sivakumar**, Vice-Principal & HOD (EEE).

The Chief Guest of NCSPVD'16, **Dr.R.Vimalathithan**, Professor/ECE, Karpagam College of Engineering has released the conference proceedings and CD to the gatherings of the conference and it was received by **Dr. J.Arputha Vijaya Selvi**, Dean(R & D) and HOD (ECE).

Dr.S.Durairaj, Principal, Kings College of Engineering has delivered the presidential address. He has explained the current scenario about Electrical, Electronics and communication Engineering. He has registered his strong views about the scope of the conference. He said that this National conference will be a platform for Researchers, academicians and PG students to discuss about recent trends, Challenges and advancements related to the flourishing areas in Electrical and Electronics Engineering,

Signal Processing and VLSI design, which will create an opportunity to focus on specific areas from their own perspective and experiences in this field.

Ms.A.Prabha, Assistant Professor/EEE and an organizing secretary of NACOFEE'16 has introduced the chief guest DrD.Devaraj. The chief guest is having 20 years of teaching experience and his present position is Dean Academics (EEE), Kalasalingam University, and Krishnan Koil. He is a member in various professional bodies. He has organized so many faculty development programmes, workshops, seminars, conferences for the betterment of faculties and students. He has selected as one of the International biographical centre's leading scientists of the world for continuous couple of years 2007 & 2008. He has received the outstanding faculty award from venus International foundation for his contribution and achievement in the field of Electrical Engineering.He has played a role of project Director and co-investigator for sponsored research project funded by Department of Science and technology and 2 projects has been completed successfully. He is a recognized supervisor of Anna university Chennai, SRM University Chennai & Kalasalingam University, Krishnan Koil. He has published more than 100 papers in National and International conferences and journals.

Dr.D.Devaraj has delivered the inaugural address and explained the importance of conference. Also he has explained about the recent trends, growth, future scope, ongoing projects and research in the field of Electrical and Electronics Engineering.

Mr.P.Raja pirian, Assistant Professor/ECE and an organizing secretary of NCSPVD'16 has introduced the chief guest Dr.R.Vimalathithan. The Chief Guest is specialized in communication system and his research area is Cryptanalysis. He got Ph.D from Anna University, Coimbatore and received Post Doctoral Fellowship from university of PADOVA, Italy. He started his profession as lecturer in Government college of Technology Coimbatore and hold various position like senior lecturer , Head of the department etc., He published many articles in reputed Journals and presented papers in many conferences. He has delivered lectures in various seminars in the field of EMI and cryptography. His major research projects are Intelligent ARM for physically challenged, Visual Circuit Analyzer, Open Space Electromagnetic Interference Measurement, Machine to Machine Communication & Secure communication protocol for WPAN. He is a reviewer

of the journals for DRDO, WSEAS and IJNS. He has received the award for International Mobility Program for Young Researchers from India & Nepal.

Dr.R.Vimalathithan has delivered the inaugural address and explained the importance of conference. Also he has explained about the recent trends, growth, future scope, ongoing projects and research in the field of Electronics and Communication Engineering.

Dr.D.Devaraj has delivered the keynote address in Pallava hall to the participants of the NACOFEE'16 on the title " **Evolutionary Algorithms for solving Multi-Objective Optimization Problems.**" He addressed that Optimization is the act of obtaining the best result under given circumstances. The ultimate goal of all such decisions is either to minimize the effort required or to maximize the desired benefit. Since the effort required or the benefit desired in any practical situation can be expressed as a function of certain decision variables, Optimization can be defined as the process of finding the variables that give the maximum or minimum value of a function. In many real-life optimization problems, multiple objectives have to be taken into account, which may be related to the economical, technical and environmental aspects of optimization problems.

These objectives are usually incommensurate and in conflict with each other. Because of the presence of conflicting multiple objectives, a multi-objective optimization problem results in a number of optimal solutions, known as pareto optimal solutions. In a multi- objective optimization, effort must be made in finding the set of trade-off optimal solutions by considering all objectives to be important. One, straightforward approach to solve the multi-objective optimization problem is to convert them into a single objective problem by linear combination of different objectives as a weighted sum method is that a set of non-inferior (or pareto optimal) solutions can be obtained by varying the weights. Unfortunately, this requires multiple run as many times as the number of desired pareto optimal solutions. Furthermore, this method cannot be used to find pareto-optimal solutions in problems having a non-convex pareto optimal front. The ability of Evolutionary Computation techniques like Genetic Algorithm to find multiple optimal solutions in one single simulation run makes them unique in solving multi-objective optimization problem.

In this presentation, the details of multi-objective genetic algorithm in solving the multi-objective optimization problems will be presented. Case studies on power system optimization problems have been presented.

Dr.R.Vimalathithan has delivered the keynote address in Chera hall to the participants of the NCSPVD'16 on the title "**Smart City**". He discussed that there is no unique definition for Smart City. The conceptualization of Smart City varies from city to city and country to country, depending on the level of development, willingness to change and reform, resources and aspirations of the city residents. A smart city would have a different connotation in India than, say, Europe. In India, evolutions of smart cities are already in progress. This evolution will provide cities with excellent ways to improve its living standards and economies of people. The objective of smart city projects is to promote cities that provide core infrastructure, a clean sustainable environment and use the resources such as energy ,water as efficiently as possible and provide purified air, good quality food thereby improving the living standards of citizens. A smart city offers its inhabitants maximal life quality with minimal consumption of resources, based on an intelligent interconnection of infrastructure (transport, energy, communication etc.) on different hierarchic levels (building, quarters, city). He said that Our Prime Minister Mr.Narendra Modi has paved the way for evolving towards the Internet of Cities. Let us support for the project in terms of technical contribution to the society.

The research scholars, faculty and students from various Engineering colleges exhibited their views, thoughts and research in the areas of Electrical, Electronics and Communication Engineering. **Professor.A.Albert Martin Ruban, Ms.N.Hemavathi and Mr.R.Sundaramoorthi** were the members of jury.

The valedictory function was arranged at Pallava Hall by 04.30PM. **Dr.S.Sivakumar**, Vice-Principal & HOD (EEE) has delivered the conference summary to the conference gatherings. Delegates from the various institutions have registered their valuable feedback. The Certificates were distributed to the participants by the conference chair.

Mr.J.Arokiaraj, Assistant Professor/EEE and an organizing secretary of NACOFEE'16 has delivered the vote of thanks. On behalf of the management he expressed the sincere thanks to the Chief guest Dr.D.Devaraj, the Principal, the Vice principal & HOD-EEE, Conference chair, teaching and non teaching faculties, event management committee, PG & UG students, delegates from various Engineering colleges for their excellent co operation to make this conference a grant success. Finally the programme was ended with National anthem.



Dignitaries on the Dias



Presence of PRO, Prof. Albert Martin Ruban and participants in chera Hall for Inaugural Function



Lighting of Kuthu vilakku by the chief guest of NACOFEE'16-Dr.D.Devaraj, Dean Academics, Kalasalingam University, Krishnan Koil



Lighting of Kuthu vilakku by the chief guest of NCSPVD'16-Dr.R.Vimalathithan, Professor/ECE, Karpagam College of Engineering.



Lighting of Kuthu vilakku by our Principal - Dr.S.Durairaj



Lighting of Kuthu vilakku by our Dean (R & D)- Dr.J.Arputha Vijaya Selvi



Dr.S.Sivakumar ,VicePrincipal & HOD-EEE is delivering the welcome address



Gatherings of National Conference 2016



Dr.S.Sivakumar is honoring the chief guest of NACOFEE'16 with shawl



Dr.S.Sivakumar is honoring the chief guest of NCSPVD'16 with shawl



Dr.J.Arputha Vijaya Selvi , Dean (R & D) is honoring the chief guest of NACOFEE'16 with memento



Dr.J.Arputha Vijaya Selvi , Dean (R & D) is honoring the chief guest of NCSPVD'16 with memento



Releasing of Proceedings of NACOFEE'16



Releasing of Proceedings of NCSPVD'16



Releasing of CD of National Conference by our principal Dr.S.Durairaj



Presidential Speech by our Principal Dr.S.Durairaj



Ms.A.Prabha, organizing Secretary of NACOFEE'16 is introducing the Chief Guest Dr.D.Devaraj



Dr.D.Devaraj, the Chief Guest of NACOFEE'16 is delivering the Inaugural address



Mr.P.Raja Pirian, Organizing Secretary of NCSPVD'16 is introducing the Chief guest Dr.R.Vimalathithan



Dr.R.Vimalathithan, the Chief Guest of NCSPVD'16 is delivering the Inaugural address



Dr.D.Devaraj is delivering the keynote address on the title " Evolutionary algorithm for multi - objective optimization problems"



Members of Jury, Prof.A.Albert Martin Ruban & Ms.N.Hemavathi listening to the presentation of delegates from various Engineering Colleges.



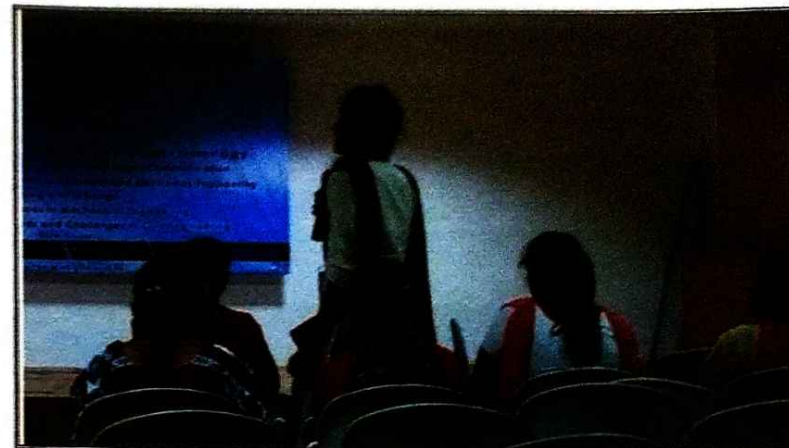
Discussion with members of jury



Delegates from various Engineering colleges



Dr.S.Sivakumar, HOD-EEE is conveying the conference summary to the gatherings



Registering the valuable feedbacks of the delegates



Mr.J.Arokiaraj, an organizing secretary of NACOFEE'16 is delivering the vote of thanks to the gatherings.



**An Entire Team of NACOFEE'16
Department of EEE**