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By IJSER Editorial Board

IJSER is proud to announce the publication of the second volume and issue 12 for the year 2011 of the International Journal of Science & Engineering Research. This Journal provides a glimpse into a few of the many high quality research activities conducted by the talented researchers around the world. The Journal is a compilation of outstanding papers from numerous disciplines submitted by students, researchers and scientists who have been involved in research, scholarly, and creative activities. The papers are through with an enhanced skill set, including better problem solutions, critical thinking, and team-working skills. Since many researchers who are highly qualified in their region, support of academic and research has a direct and positive impact on the upcoming researchers. We would like to express our sincere thanks to all those scientists for choosing IJSER from the first volume of the Journal since year 2010 and making it to 2011 now. We would like to especially thank the editorial members of the IJSER team for their constant support over past 2 years and also a welcome to the new members joining the team. Many thanks to the paper review committee for their constant support in timely reviewing the papers to the best of their expertise knowledge. The support from prominent regional businesses and organizations is greatly appreciated and essential for the advancement of research and journal wellbeing. There is a wide range of paper submission all the way from technology to social science titles like "*Cadmium Selenide Quantum Dots Synthesized by HVPC Growth Technique for Sensing Copper ion Concentration*" by Arra C. Quitaneg, Gil Nonato C. Santos discussing Cadmium selenide quantum dots of different radii were synthesized using Horizontal Vapor Phase Crystal (HVPC) Growth Technique. Fluorescence quenching is the sensing mechanism utilized in the study. The synthesized CdSe quantum dots were used effectively in the optical sensing of copper ion concentrations and extended to the deep technical titles like "*Energy-Efficient Routing Protocol in Wireless Sensor Network*" by Subhadra Shaw covering the details of Routing in Wireless Sensor Network (WSN) is an important area of research due to its rapidly increasing application in monitoring various kinds of environment by sensing

physical phenomenon. Energy consumption is one of the major criteria for most of the routing protocols because 70% of the total energy is consumed in data transmission in WSN. This paper introduces an energy efficient clustering algorithm for WSN based on Low Energy Adaptive Clustering Hierarchy (LEACH) which will remove some of the drawbacks of LEACH. It utilizes the remaining energy of the current Cluster Head (CH) to make the routing process more efficient. Another level of aggregation is added which not only saves energy by eliminating redundancy and reducing number of data transmission but also distribute the work load evenly by utilizing the energy of the least overloaded CHs. .

To learn more, please visit http://www.ijser.org/. We would like to thank all the contributing authors for providing such a rich variety of outstanding research articles on a broad range of exciting topics. We also would like to thank Graphic Designer and web administration for designing the outstanding coverage and web maintenance of this volume of the Journal.

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The Editorial Board