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<th>Volume-1 Issue-12, February 2016, ISSN: 2394-367X (Online) Published By: Blue Eyes Intelligence Engineering &amp; Sciences Publication Pvt. Ltd.</th>
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<td>Authors: Albina Basholli, Vasillaq Kedhi, Alisa Cangonji</td>
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<td>Paper Title: A Goal Programming Model for Facility Location Planning</td>
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<td></td>
<td><strong>Abstract:</strong> The aim of this paper is to apply Goal Programming in facility location. The feasibility project of a project idea on building an economic object is a defining moment in the decision making of the party that is investing on a certain project. Generally, the feasibility is done based on the global data extracted by the practical experience of building and functioning of similar existing object. However, it is understandable that the accuracy of the feasibility results is increased when different points of view are used in combination with exact methods of calculation. In this aspect, it is important to predict the economic level of any country is an important feature of measurement type e.g. medium or high income countries, and it is really a tough job to decide the same. Sometimes traditional approach is not providing the proper level, therefore we use the concept of fuzzy logic to find out the feasibility of the object becomes clearer. In this study was considered the possibility of using a mathematical model for the basin used by a yacht harbor. As a result, it is shown that the optimal use of a basin by a yacht harbor can be modeled as an objective function problem, which according to previously known methods can turn into a mathematical programming problem.</td>
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<td><strong>Keywords:</strong> Goal programming, facility location, goal programming, optimization.</td>
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|       | **References:** 1. Billionnet A. Optimisation Discrète, Dunod, Paris 2007  
2. Colorni A. Ricerca Operativa, clup, Milano, 1984  
|       | Authors: S. Kumar, Rashmi Singh, Manish K. Srivastava, Ashish K. Srivastava                                                                   |         |
|       | Paper Title: Fuzzy Logic based Model to Calculate the Economic Level of any Country                                                          |         |
|       | **Abstract:** The availability of data for the size of economic level of any country is an important feature for economic policies. It helps World Bank to classify the countries as their economic level e.g. medium or high income countries, and it is really a tough job to decide the same. Sometimes traditional approach is not providing the proper level, therefore we use the concept of fuzzy logic to find out the economic level of any country. The fuzzy logic is an ideal tool to cope with vague, ill-structured and uncertain scenarios, which can be found in both fields business and economics. This is the main reason why fuzzy logic is used in this research. Five input variables are used i.e. Population, GDP, Unemployment Rate, Inflation Rate, Industrial Production Growth Rate. The resulting economic level is compared with previously used benchmarking method. | 6-12    |
|       | **Keywords:** Benchmarking, country’s economy, economics, fuzzy logic, Gaussian membership function.                                                |         |
|       | Authors: M.L. Dongare, M. N. Awatade, A. D. Shaligram, A.S. Burungale                                                                      |         |
|       | Paper Title: Analytical Characteristics Study of Glass Electrode based pH Measurement System in Respect of mV Output and Internal Resistance | 13-15   |
|       | **Abstract:** In tradition, pH measurement methods falls in to four categories, such as indicator reagents., pH test strips, metal electrode methods(hydrogen electrode, quin hydronate electrode and antimony electrode method) and glass electrode. Glass electrode is one of the well known, inexpensive, easily available and commercially available method. However the use of these measurement type is subject to various sources of uncertainties and having limitation in many industrial applications. At   |         |
present, pH sensitive glass electrodes are commonly used for determining the hydrogen ion concentration. A hydrated layer (gel layer) of around 10-4 mm is developed on the sensitive glass membrane from inside and outside when dipped in aqueous solution. However, there are unexplored avenues in the knowledge of physical mechanism in the formation of hydrated layer, potential developed, nature and different characteristics, methods of its thickness measurement etc. From the review, it is noted that electrical characterization technique may lead to better results with regard to the understanding of the basic physical mechanism in the pH sensitive glass electrodes. Hence the electrical parameter measurement technique is used and is reported in this paper.

**Keywords:** Glass electrode, pH sensor, electrical characterization, resistance, current

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**Paper Title:** Evaluation of Effectiveness of Holy Basil (Ocimum Sanctum L.) Against Storage Pest Sitophilus Oryzae

**Abstract:** A very common storage pest of wheat grains Sitophilus oryzae L. is usually controlled by the application of chemical pesticides which are harmful for human health and have residual effects even after thorough washing. The aim of present study is to evaluate extracts of holy basil as biopesticides to control the growth of this pest. The extract was prepared in acetone and alcohol, and then wheat grains were treated in the extract for 30 minutes before the introduction of adults of Sitophilus oryzae. In this study it was observed that the biopesticides were able to effectively control the pests. Moreover the extracts were found to be more effective in lower and medium concentrations and less in higher concentrations.

**Keywords:** Sitophilus oryzae L., application, biopesticides, Moreover the extracts.

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