

**LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Flood Early Warning System Develop at Garang River Semarang using Information Technology base on SMS and Web

Jumlah Penulis : 1 orang (**Joko Windarto**)

Status Pengusul : penulis ke-1

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- b. Nomor ISSN : ISSN : 0976-4380
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- d. Penerbit : Integrated Publishing Association
- e. DOI artikel (jika ada) : -
- f. Alamat web jurnal : <http://www.ipublishing.co.in/jggsvol1no12010.html>
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NIP. 197106161999031003
Unit : Teknik Elektro FT UNDIP

Reviewer 1



Dr. Wahyudi, ST, MT
NIP. 196906121994031001
Unit : Teknik Elektro FT UNDIP

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Mochammad Facta, S.T., M.T., Ph.D.
NIP. 197106161999031003
Unit : Teknik Elektro FT UNDP

Flood early warning system develop at garang river Semarang using information technology base on SMS and Web

J Windarto - International Journal Of Geomatics And Geosciences, 2010 - researchgate.net

One of large rivers flowing in Semarang City is Garang River with watershed area about 203 km² and having characteristics: high flood discharge and flash flood. The flash flood on January 25 th 1990 caused more than 45 people died and lost 8.5 billion rupiahs. In this research, a flood early warning system made, an automatic rainfall recorder (ARR) was placed in upstream of Garang River and an automatic water level recorder (AWLR) placed in Simongan weir. To receive rainfall and water level data, a computer as server placed in ...

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Rakesh Pathak, Committee Member Emerging Analysis Methods in Earthquake Engineering at Structural Engineering Institute.

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Mr. R. Azhaguraj, Research Scholar, School of Biodiversity and Environmental Monitoring, PG Department of Advanced Zoology and Biotechnology, Loyola College, Chennai, India.

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Dr. B. B. Arora, Associate Professor, Delhi Technological University, India.

Prof. Ashwani Kumar Dhingra, Assistant Professor/Reader & Head, Department of Mechanical Engineering, University Institute of Engineering & Technology, Maharshi Dayanand University Rohtak, Haryana, INDIA.

Dr. (Mrs.) Minakshi, Scientist, Department of Animal Biotechnology, CCS Haryana Agricultural University, Hisar, Haryana, India

Dr. K.Srinivasamoorthy, Associate Professor,Department of Earth Sciences, Annamalai University, Chidambaram,Tamilnadu, India.

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Dr.Thavorn Thitthongkam, Lecturer, Sripatum University, Bangkok, Thailand.

Mr. N. PANNIRSMELVAM, Department of Civil Engineering, VIT University, Vellore, India.

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Prof. Sunil Kumar Yadav, Assistant Professor, GNIT-MBA Institute, Noida, India.

T.Thambidurai, Associate Customer Engineer-Trainee, Precision Infomatic Private Limited, Chennai, Tamilnadu.

Dr.Thavorn Thitthongkam, Lecturer, Sripatum University, Bangkok, Thailand.

Prof. Balasingam Prahalathan, Assistant Professor, Department of Commerce & Financial Manangement, University of Kelaniya, SriLanka.

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Flood Early Warning System Develop at Garang River Semarang using Information Technology base on SMS and Web

Joko Windarto

Engineering Faculty, Diponegoro University Semarang – Indonesia

ABSTRACT

One of large rivers flowing in Semarang City is Garang River with watershed area about 203 km² and having characteristics: high flood discharge and flash flood. The flash flood on January 25th 1990 caused more than 45 people died and lost 8.5 billion rupiahs. In this research, a flood early warning system made, an automatic rainfall recorder (ARR) was placed in upstream of Garang River and an automatic water level recorder (AWLR) placed in Simongan weir. To receive rainfall and water level data, a computer as server placed in Semarang government office. This functions for sending flood status (prepared/caution/careful) to flood attendants, stake holders. Artificial neural network (ANN) used to predict water level where the input are rainfall in upstream river for 1, 2, 3, 4 or 5 days before and the water level in the downstream for 3 hours before the occasion. The output water level in downstream for next 2 hours. This system integrated with information technology that is SMS (Short Message Services) and Web that the flood early warning can be accessed anywhere as long as communication network is available. The result shows time for sending data of rainfall and water level telemetry system less than 10 minutes, while information system built to give flood early warning information less than 10 minutes. Consequently it fulfill in which the time to receive the information less than time when flood happened in 2 hours. The result of optimum predicting during the ANN training is model 4, 20 neurons; speed training 0.9, momentum 0.3 which input rainfall are four days before the occasion and the water level are 3 hours before having MSE 0.0046. Finally, the results of survey to flood attendants and staffs from government show that 86 % of the respondent absolutely need the flood early warning system.

Key words: Garang River, short message services, artificial neural network, flood early warning.

1. Background

One of the major rivers flowing through the Semarang City is Kali Garang that have 220 km² of wide, characterized by the large flow of floods and the arrival is fast (flash floods); Kali Garang has a twigs pattern, with so many tributaries. Tributary that large enough are Kreo River and Kripik River, where the length of Garang River from upstream to downstream approximately 30 km. (Irianto G, Perez P, Q and Prasetyo, 1999)

Kali Garang located in the western of Semarang City, previously has estuary called Kali Semarang. By the development of the city, the load of Semarang city becomes heavier, while the efforts of normalization is impossible. Therefore in the 19th century, the government built the West Flood Canal from the north Simongan straight ahead to the sea. Western Canal flood is a continuation of Kali Garang which rises in the Mount Ungaran. (Suripin, 2004)

The existence of dense settlements around Kali Garang caused flood, enormous losses both property and lives. On January 25th, 1990 flood occurred which resulted in more than 45

Emergency Response Management and Information System (ERMIS) – A GIS based software to resolve the emergency recovery challenges in Madurai city, Tamil Nadu

B.Ganeshkumar, D.Ramesh

PSNA College of Engineering & Technology, Dindigul, Tamilnadu, India

bgeekay@gmail.com

ABSTRACT

Optimum utilization of the time after an accident which is golden hour serves as a measure of effectiveness of any emergency response service provider system. Recovery actions should be taken in time to reduce the loss of life and property. In spite of the reason that the service providers are well equipped, routing problems and traffic congestions breaks their speedy recovery action in real time. This paper presents a case study on Madurai which is the third largest city in Tamil Nadu with 51.9 Km² and is also referred to as ‘City Never Sleeps’ because of its busy life round the clock. In the recent years, it is transforming its status from ‘Athens of the East’ to ‘Growing IT hub’ of southern Tamil Nadu, thanks to the development of IT sector in this zone. Most of the emergency situations arise in the city due to road and fire accident in this paper for which a detailed GIS database of transportation network, accident locations, hospitals, ambulance locations, police and fire stations was prepared and Spatial Analysis was also carried out for accident records of years 2004 – 2008 by using ArcGIS9.3 to map the accident risk zones. ERMIS, a stand alone software free from GIS software backend was designed with all basic map interaction functions in VB.NET platform with MapObjects2.4, which can able to answer all kind of needs basically required for an emergency responder. A unique route finding OCX was programmed and used to plot O-D cost matrix from multiple origins to multiple destinations. Route Finder was designed to find shortest, time saving routes and services areas. For effective response ERMIS found to provide a greater support in giving information about the vicinity of an emergency and solving direction-finding problems.

1. INTRODUCTION

Human resource is always of immense support for a developing country like India. Even though our country is saturated with 110 Crore population, not many are overlooking the safer

Delineation of Areas for Water Conservation in Peruvamba River basin, Kannur district, Kerala, Using Remote Sensing and GIS.

Sampad Kumar Panda, B. Sukumar

M.Tech Remote Sensing and GIS, SRM University, Chennai

Scientist, Center for Earth Science Studies, Trivandrum

E-mail: sampadpanda@gmail.com

ABSTRACT

The concept of Watershed prioritization is the basis of effective planning and optimum development of the natural resources. Selection of priority watershed area includes the location and determination of vulnerable watersheds, the treatment of which can be possible on priority basis with adaptation of frontier technologies like Satellite Remote Sensing, Geographic Information Systems (GIS). The present study is an attempt to locate and assess the priority areas of Peruvamba river basin, Kannur district, Kerala to take action plan for development, by interpretation of space borne Satellite data and overlaying different factors in the GIS platform. Peruvamba River is one of the 20 rivers in Kannur district situated in the northern part of it originating from the Western Ghats and flows in to the Lakshadweep Sea constituting a total catchment area of 269 Km². The catchment boundary and drainage network have been delineated using topographic map on 1:50,000 scale and watershed boundary are demarcated with attention to stream ordering. From the existing collateral data, different aspects like geology, soil, relief, drainage, landform, slope, aspect, relative relief and landuse maps were prepared using Arc GIS software. Land use and land cover map is prepared from IRS LISS-III FCC by supervised classification in Erdas Imagine software. Normalized Difference Vegetation Index (NDVI) is used to get vegetation and period of growth. Weightage are assigned for different factors and a composite map is prepared by overlaying in IDRISI platform and reclassified to bring out the result and final output. Appropriate suggestions are made for future development.

By overlaying the Panchayat boundary on the Watershed map, it is derived that watersheds of Kankole-Allappandamba, Peringome-Vayakara, Eramam-Kuttur and Periyaram Panchayats should be prioritized. This will be useful for developmental planning by the Administrators and Agriculture Dept.