	Ahmed M Khudhur **Faculty of Eng. Tech., Malaysia Engineering Technology, Pahang 26300, Malaysia** **Yasir H Naif** **Faculty of Eng. Tech., Malaysia Engineering Technology, Pahang 26300, Malaysia** **Ahmed N Abdalla** **Faculty of Eng. Tech., Malaysia Engineering Technology, Pahang 26300, Malaysia** **Abstract** **It has been recently argued and experimentally shown that ion channel noise in neurons may have results that are profound the neuron's dynamical behavior. Most profoundly, ion channel noise was seen become able to cause spontaneous firing and resonance that is stochastic. An approach that is physical the description of neuronal dynamics under the influence of ion channel noise has been recently proposed through the utilization of dissipative stochastic mechanics. It introduced a computational neuron model channel noise that is incorporating. The most feature that is distinctive of model could be the existence of so-called the renormalization terms therein. This model experimentally displays compatible noise- induced transitions among its dynamical states and gives the Rose-Hindmarsh model of the neuron in the limitation that is deterministic. The dissipative stochastic mechanics based neuron model will be studied when the input present to the neuron is an input pulse and noisy in this paper. Data of firing efficiency, latency, and jitter will undoubtedly be examined for various stimulus pulses. In particular, the role played by the existence of the renormalization term shall be focused on in the examination. In addition, the investigation shows that the use of noise in the inputs can improve the spiking rates as well as the coherence that is spike, especially in the existence of the renormalization terms.** **Keywords: Hodgkin Huxley, ion channel noise, neuronal dynamic, rose-hind marsh model, stochastic ion channels.**
Zulaihatu Hamidu **GICICRST1704078**	**Examining the Factor Responsible For The Variation In Accessibility To Health Care Facilities - Ghana** **Zulaihatu Hamidu** **Graduate School of Natural and Applied Sciences, City and regional planning, Dokuz Eylül University, Tinaztepe Campus, 35160, Izmir, Turkey** **Prof Dr Mert Cubukcu** **City and regional Department, Architecture Faculty Dokuz Eylül University, Tinaztepe Campus, 35160, Izmir, Turkey** **ABSTRACT** **One of the current issues of discussions in recent times is on rapid population growth in the coming years and its accompanied consequence that are expected to take place in urban cities of developing counties and not in rural communities. Rapid population growth often occurs with is accompanied consequences rendering parts of cities not conducive for a living. To cap this accompanied consequence of population growth, analysts came out with a good number of critical socio-economic issues that needs to be addressed ahead of the expected growth. These include,**