

***Interactive comment on* “Towards Cyber Physical Era: Soft Computing framework based Multi-Sensor Array for Water Quality Monitoring” by Jyotirmoy Bhardwaj et al.**

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For benefit of readers, the authors would like to incorporate additional figures and supplementary file.

Fig 1. Represents System Layout and Prototype, Fig 2. Representation of Fuzzy Rule, Fig 3 Represents Steps of Measurement Cycle and Fig 4 Represents Mean Average Percentage Error chart of SA with respect to YSI V2 and analytical results. The supplementary file presents application of Fuzzy inference through Python.

Please also note the supplement to this comment:

<https://www.drink-water-eng-sci-discuss.net/dwes-2017-25/dwes-2017-25-AC1-supplement.pdf>

Interactive comment on Drink. Water Eng. Sci. Discuss., <https://doi.org/10.5194/dwes-2017-25>, 2017.

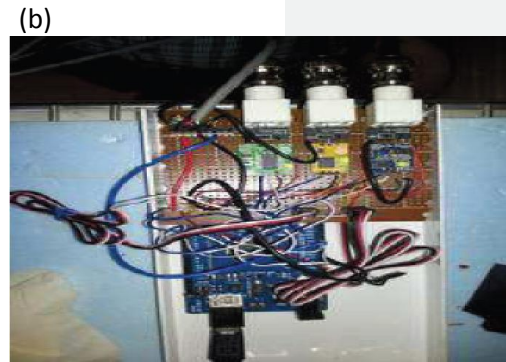
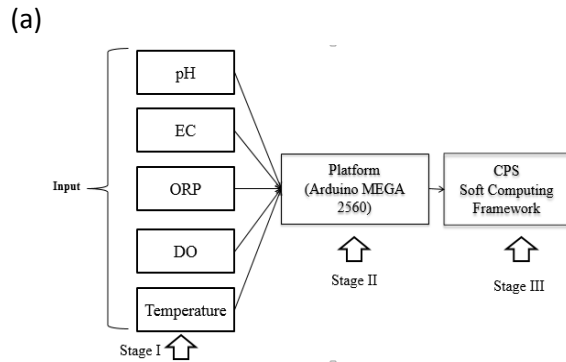
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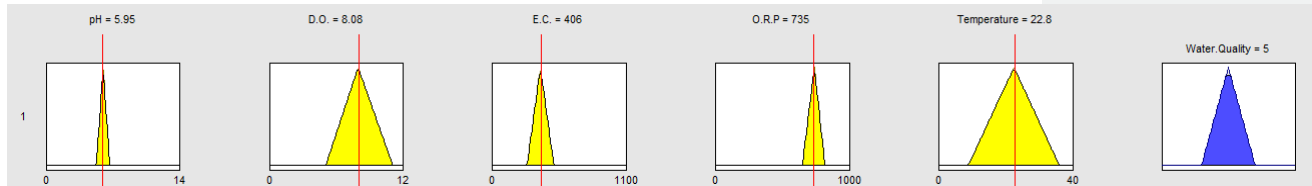


5 Fig1. (a) Design stages for proposed system (b) System Prototype

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5 Figure 3. Representation of Fuzzy Rule

Figure 3 is the representation of the rule

10 “If (pH is ADE) OR (D.O. is HACC) OR (E.C. is ADE) OR (O.R.P is HACC) OR (Temperature is HACC) then (Water Quality is ADE)”.

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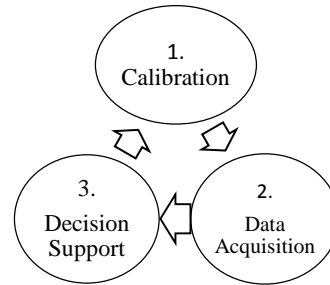


Fig 4. Steps of Measurement Cycle

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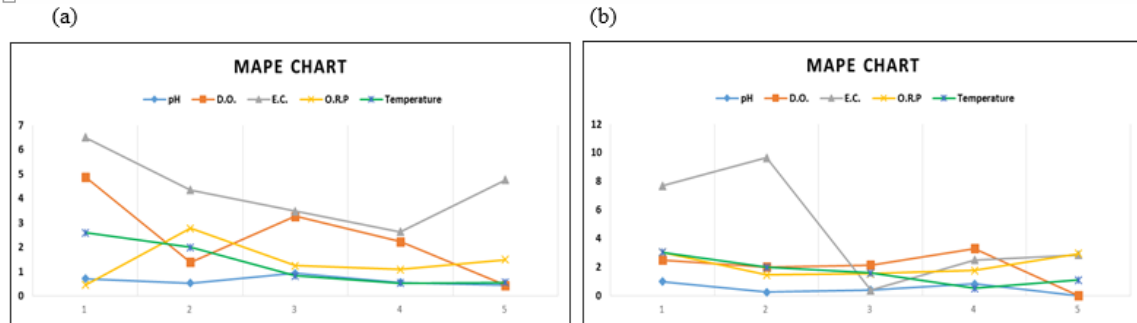


Fig 6: MAPE Chart (in %) (a) SA against Laboratory Results (b) SA against YSI Sonde 6820 V2 results

5 Table 4 MAPE (in %) Table

	pH		D.O. (mg/lit)		E.C. (uS/cm)		O.R.P. (mV)		Temp. (°C)	
	YSI	Lab	YSI	Lab	YSI	Lab	YSI	Lab	YSI	Lab
1	0.702	0.986	4.878	2.500	6.494	7.692	0.443	3.030	2.597	3.043
2	0.522	0.263	1.389	2.013	4.348	9.651	2.778	1.449	2.000	2.000
3	0.933	0.405	3.261	2.151	3.469	0.396	1.235	1.551	0.820	1.600
4	0.554	0.833	2.222	3.297	2.632	2.500	1.078	1.764	0.521	0.526
5	0.433	0.000	0.433	0.000	4.762	2.857	1.493	2.941	0.552	1.111