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**Mohamed Assabaa1,3, Adel Bouchahed2,3, Abdellah Draidi3, Boudjemaa Mehimmedetsi4,   
Ahmed Belhani2 (10 pt)**

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2Laboratoire Satellites Intelligence Artificielle Cryptographie et Internet des Objets, Department of Electronics, Faculty of Science and Technology, University of Constantine 1, Constantine, Algeria

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1. **INTRODUCTION (10 PT)**

The main text format consists of a flat left-right columns on A4 paper (quarto). The margin text from the left and top are 2.5 cm, right and bottom are 2 cm. The manuscript is written in Microsoft Word, single space, Time New Roman 10 pt, and maximum 12 pages for original research article, or maximum 16 pages for review/survey paper, which can be downloaded at the website: https://iaesprime.com/index.php/iot.

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Literature review that has been done author used in the section "INTRODUCTION" to explain the difference of the manuscript with other papers, that it is innovative, it are used in the section "METHOD" to describe the step of research and used in the section "RESULTS AND DISCUSSION" to support the analysis of the results [2]. If the manuscript was written really have high originality, which proposed a new method or algorithm, the additional section after the "INTRODUCTION" section and before the "METHOD" section can be added to explain briefly the theory and/or the proposed method/algorithm [4].

1. **METHOD (10 PT)**

Explaining the research chronologically, including the research design, research procedures (in the form of algorithms, Pseudocode, or other), how to test, and data acquisition [5]–[7]. The description of the course of research should be supported references, so the explanation can be accepted scientifically [2], [4]. Figures 1-2 and Table 1 are presented center, as shown below and cited in the manuscript [5], [8]–[13]. Figure 2(a) shows the result of twig dryness sensor testing on environmental temperature changes and the output voltage of the sensor tends to be stable even though the humidity of the surrounding air changes has been illustrated in Figure 2(b).

User

Server

Receiver

Transmitter



Microcontroller

Signal conditioning

Probe sensor

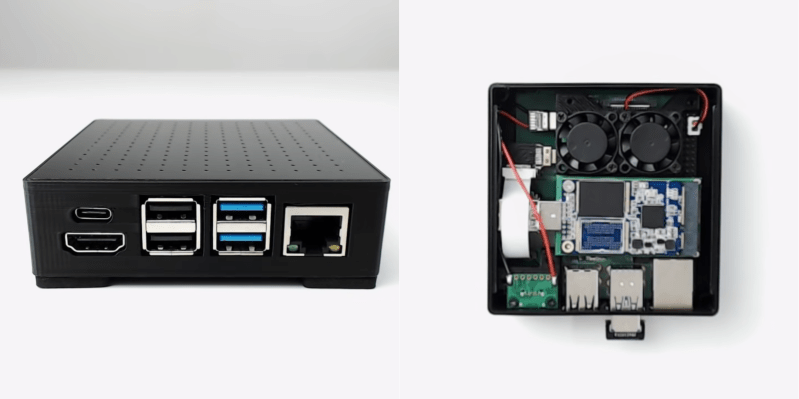
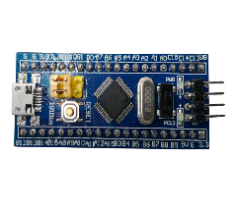


Figure 1. Block diagram of IoT-based peatland fire early detection system

Table 1. Materials required

|  |  |
| --- | --- |
| Materials | Specification |
| Nickel needle | (12×0.2) cm |
| Resistor | 100 Ω, 1 kΩ |
| Cable | 1 meter |
| PCB | (3×3) cm |
| Signal conditioning module | Vin: DC 5V; Output: analog ADC (support all microcontroller and Arduino) |

|  |  |
| --- | --- |
| A graph of a temperature  AI-generated content may be incorrect. | A graph of a sensor output voltage  AI-generated content may be incorrect. |
| (a) | (b) |
| Figure 2. Sensor performance (a) at different temperatures and (b) at different humidity | |

1. **RESULTS AND DISCUSSION (10 PT)**

In this section, it is explained the results of research and at the same time is given   
the comprehensive discussion. Results can be presented in figures, graphs, tables and others that make   
the reader understand easily [14], [15]. The discussion can be made in several sub-sections.

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3.2.1. Subsub section 1

yy

3.2.2. Subsub section 2

zz

1. **CONCLUSION (10 PT)**

Provide a statement that what is expected, as stated in the "INTRODUCTION" section can ultimately result in "RESULTS AND DISCUSSION" section, so there is compatibility. Moreover, the prospects for the development of research results and the application of further studies can also be added to the next (based on the results and discussion).

**ACKNOWLEDGMENTS *(if applicable)* (10 PT)**

This section should acknowledge individuals who provided personal assistance to the work but do not meet the criteria for authorship, detailing their contributions. It is imperative to obtain consent from all individuals listed in the acknowledgments.

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* R. Fardel, M. Nagel, F. Nuesch, T. Lippert, and A. Wokaun, “Fabrication of organic light emitting diode pixels by laser-assisted forward transfer,” *Appl. Phys. Lett.*, vol. 91, no. 6, Aug. 2007, Art. no. 061103, doi: 10.1063/1.2759475.

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* J. Zhao, G. Sun, G. H. Loh, and Y. Xie, “Energy-efficient GPU design with reconfigurable in-package graphics memory,” in *Proc. ACM/IEEE Int. Symp. Low Power Electron. Design (ISLPED)*, Jul. 2012, pp. 403–408, doi: 10.1145/2333660.2333752.

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* R. L. Myer, “Parametric oscillators and nonlinear materials,” in *Nonlinear Optics*, vol. 4, P. G. Harper and B. S. Wherret, Eds., San Francisco, CA, USA: Academic, 1977, pp. 47–160.

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**REFERENCES**

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|  |  |
| --- | --- |
| med2.png | **Mohamed Assabaa**  received the engineer degree in electronics (systems control) from University of Constantine 1, Algeria, in 2002 and the magister and doctorate degrees in electronics (systems control) in 2006 and 2015, respectively, from the Department of Electronics, University of Constantine 1, Algeria. Currently, he is an associate professor in the Electromechanical Department at the Institute of Sciences and Applied Techniques, University of Constantine 1, Algeria. His research interests include fractional-order control, adaptive control, robust control, fractional-order systems, renewable energy, and industrial automation. He can be contacted at: mohamed.assabaa@umc.edu.dz or assabaamohamed@gmail.com. |
|  |  |
| A person in a maroon sweater  AI-generated content may be incorrect. | **Adel Bouchahed**  was born in Guelma, Algeria, on April 10, 1980. Higher education was completed in Heliopolis City, Algeria, graduating with a bachelor's degree in electrotechnics in 2000. Postgraduate diplomas in electromechanical engineering were received from Annaba University in 2006. The electromechanical magister degree was received from Annaba University in 2009. The electromechanical doctorate degree was received in 2017 from Annaba University. He is an associate professor at the Institute of Sciences and Applied Techniques, University of Constantine 1. His present research interests include electrical vehicles, renewable energy, power electronics, and industrial automation. He can be contacted at email: bouchahed.adel@umc.edu.dz or adel.bouchahed@gmail.com. |
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| A person in a blue sweater  AI-generated content may be incorrect. | **Abdellah Draidi**  received the engineer degree in electrotechnics from University of Constantine 1, Algeria, in 2006 and the magister and doctorate degrees in electrotechnics in 2010 and 2016, respectively, from the Department of Electrotechnics, University of Constantine 1, Algeria. Currently, he is an associate professor and head of the Electromechanical Department at the Institute of Sciences and Applied Techniques (Institut des Sciences et Techniques Appliquées, ISTA), University of Constantine 1, Algeria. His research interests include renewable energy, power systems, load flow control, economic dispatch, artificial intelligence techniques, and industrial automation. He can be contacted at email: draidi\_abdellh@umc.edu.dz or abdellah.draidi@gmail.com. |
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| A person with grey hair  AI-generated content may be incorrect. | **Boudjema Mehimmedetsi**  received the electromechanical engineer degree from University of Annaba, Algeria, in 1992 and the magister and doctorate degrees in electrotechnics in 2008 and 2018, respectively, from the Department of Electrotechnics, University of Constantine 1, Algeria. Currently, he is an associate professor at the Electromechanical Department, University of Mila, Algeria. His research interests include renewable energy, power systems, hybrid power systems, and control of electrical machines. He can be contacted at email: mehim.boudj@gmail.com or b.mehimmedetsi@centre-univ-mila.dz. |
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| A person in a white shirt and tie  AI-generated content may be incorrect. | **Ahmed Belhani**  has received an engineer degree, master’s degree, and Ph.D. degree in control engineering from the University of Constantine 1, Algeria. Currently, he is a full professor in the Electronics Department, Faculty of Science and Technology, University of Constantine 1. His research interests include nonlinear control, artificial intelligence (AI), renewable energy, hybrid systems, optimization, FPGA, and embedded systems. He can be contacted at email: ahmed.belhani@umc.edu.dz. |