

Curriculum Vitae

Name & Surname: SAHOUR ABDELHAKIM

Date and Place of Birth: October 26, 1970, in TAMLOUKA, W.GUELMA, Algeria.

Professional Address: Abbes Laghrour University, Batna Road, BP 1252 El-houria, Khenchela '40004', Algeria.

Personal Address: Building 48, Number 202, BOUSSOUF Abdelhafid City, Constantine, Algeria.

Phone: 00213 659 27 70 95

Email Address: hakim_sahour@yahoo.fr

Rank: Associate Professor A.

Titles and Degrees:

- Habilitation Universities, 2021, Badji Mokhtar University, Annaba.
- Doctorate in Electronics, Signal Processing option, Year 2013, Badji Mokhtar University, Annaba.
- Magister in Electronics, Non-Destructive Quality Control by Ultrasonics option, 2003, Badji Mokhtar University, Annaba.
- State Engineer in Electronics, Industrial Control option, Badji Mokhtar University, Annaba.

Titles of Supported Theses (Date and Location):

- Implementation on FPGA of a Signal Denoising Algorithm Using 1D-DWT, 2013, Badji Mokhtar University, Annaba.
- Simulation of Trajectories of Backscattered Electrons by the Monte Carlo Method, 2003, Badji Mokhtar University, Annaba.
- Development of a Real-Time Display Electronic Stethoscope, 1999, Badji Mokhtar University, Annaba.

Positions Held (Location and Date):

- **University professor at Abbes Laghrour University, Khenchela, Since 2003.**

Scientific Activities:

International Publications :

- **Abdelhakim Sahour**, Farouk Boumehrez, Mohamed benouaret, Azzouz Mokhneche, Greenhouse Climate Controller by Using of Internet of Things Technology and Fuzzy Logic, Instrumentation Mesure Métrologie, Vol 20, N° 01 february, 2021, pp.29-38
- Farouk Boumehrez, **A. Hakim Sahour**, Nouredine Doghmane, Telehealth care enhancement using the internet of things technology, Bulletin of Electrical Engineering and Informatics, Vol. 10, No. 5, October 2021, pp. 2652~2660, ISSN: 2302-9285, DOI: 10.11591/eei.v10i5.2968.
- M.Benouaret, **A.Sahour**, S.Harize, Real time implementation of a signal denoising approach based on eight-bits DWT. Int. J. Electron. Commun. (AEÜ) VOL66 (2012), pp. 937– 943.
- **Abdelhakim SAHOUR**, Mohamed Benouaret, FPGA Implementation of Daubeshies Polyphase-Decimator filter, International Journal of Computer Applications (0975 – 8887) Volume 7– No.10, October 2010

International Communications :

- **A.Hakim Sahour**, Farouk Boumehrez, Mohamed benouaret, Azzouz Mokhneche, système de télésurveillance médicale basé sur la technologie de l'internet des objets (IoT), colloque international telecom'2019 & 11^{èmes} JFMMA (telecom & JFMMA 2019), Saida, Maroc.
- F. Boumehrez, **A. Sahour**, N. Doghmene, the impact of jitter on the HECV video streaming with multiple coding, the electrical engineering international conference, bejaia, Algeria, December 4-5, 2019.
- **SAHOUR Abdelhakim**, BENOURET med and HARIZE Saliha, a harwere implementation of a polyphase filter bank, mediterranean conference of information and communication technologies 2015, Saida, Morocco, may 7-9, 2015
- **Abdelhakim SAHOUR**, Mohamed BENOURET, Saliha HARIZE, DWT Denoising Signal Implementation Based on FPGA Target, 8^{ème} Conférence sur le génie Electrique (CGE'08), EMP, ALGERIE, 16-17 Avril, 2013
- Saliha Harize, Mohamed Benouaret, Nouredine Doghmane, **Sahour Abdelhakim**, A Simple and Efficient Scheme to Implement FIR Filters on FPGA, The First International Conference on Electrical Engineering and Control Applications, 20th - 22th Novembre, Khenchela, 2012
- Abdelhakim sahour , Farouk Boumehrez , Medical monitoring system based on the internet of things technology, Fifth International Conference on Electrical Engineering And Control Applications ICEECA'22, November, 15-17th, 2022, University of Abbes Laghrour, Khenchela, Algeria.

- Hanane Djellab, Amel Bouchemha, Fouzia Maamri, Boumehrez Farouk and **Sahour Abdelhakim**, Path Loss optimization in 4G networks using particle swarm optimization PSO, 2ème Conférence Nationale sur les Télécommunications et ses Applications (CNTA'22), Le 20 et 21 décembre 2022 Ain-Témouchent, Algérie=
- **Abdelhakim Sahour**, Farouk Boumehrez, Abdelaali Bekhouche, Saddam Brai , Yacine Messai, forest monitoring using iot technology , geomatics applied to forest management and valorization, Conference of Young Rresearcher, 2023
- **Abdelhakim Sahour**, Farouk Boumehrez, Abbassi Taki Eddine, Ines Abdelaziz, Système de télésurveillance des vergers de pommiers utilisant la technologie d'Internet des Objets (IoT), first international conference on artificial intelligence and its applications in the agricultural sector, University Mohamed Bachir Brahimi Bordj Bou Arreridj, mai 2023.
- **Abdelhakim Sahour**, Farouk Boumehrez, Abdelaali Bekhouche, Djellab Hanane, Forest monitoring using IoT technology, International Conference on Technological Advances in Electrical Engineering ICTAEE'23, Skikda 2023.

National Communications :

- M. Zadam, **A. Sahour**, N. Doghmene et M. Benoureth, Simulation des trajectoires des électrons rétro diffusés par la méthode de Monte Carlo, 1^{er} rencontre sur les journées des sciences et technologies avancées, JSTA 2003, Université de Guelma, 24-25 Mai 2003.
- Farouk Boumehrez, **Abelhakim Sahour**, Hanane Djellab and Fouzia Maamri, « Application of IoT in health monitoring system », 2ème Conférence Nationale sur les Télécommunications et ses Applications (CNTA'22), Le 20 et 21 décembre 2022 Ain-Témouchent, Algérie
- **Abelhakim Sahour**, Farouk Boumehrez, Hanane Djellab and Fouzia Maamri, « Novel approach on efficient FPGA Architecture of wavelet transform analysis Le Gall 5/3 filter », 2ème Conférarget Nationale sur les Télécommunications et ses Applications (CNTA'22), Le 20 et 21 décembre 2022 Ain-Témouchent, Algérie
- Hanane Djellab, chemha amel, Fouzia Maamri, Farouk Boumehrez and **Abelhakim Sahour**, Fouzia Maamri, « loss optimition in 4G network using particle swarn optimisation PSO filter », 2ème Conférarget Nationale sur les Télécommunications et ses Applications (CNTA'22), Le 20 et 21 décembre 2022 Ain-Témouchent, Algérie
- Farouk Boumehrez, **Abelhakim Sahour**, Hanane Djellab and Fouzia Maamri, « assessent of HEVC/H.265 video quality over a wireless paskets network using a fuzzy logic model», 2ème Conférence Nationale sur les Télécommunications et ses Applications (CNTA'22), Le 20 et 21 décembre 2022 Ain-Témouchent, Algérie

Participation in Scientific Activities:

- Team Leader of Communication Networks and Internet of Things, Laboratory of Information and Telecommunication Technologies Systems and Applications (SATIT), Faculty of Sciences and Technologies, Abbès Laghrour University of Khenchela.
- Member of the Scientific Committee, 2nd International Conference on Signal, Image, Vision, and Their Applications 'SIVA,' Nov 18-20, 2013, Guelma, Algeria.
- Member of the Organizing Committee of the 1st International Conference on Electrical Engineering and Control Applications 'ICEECA 2012,' Nov 20-22, 2012, Khenchela, Algeria.
- Member of the Scientific Committee of the 5th International Conference on Electrical Engineering and Control Applications 'ICEECA 2022,' Nov 15-17, 2022, Khenchela, Algeria.
- Member of the Organizing Committee of the 5th International Conference on Electrical Engineering and Control Applications 'ICEECA 2022,' Nov 15-17, 2022, Khenchela, Algeria.
- Member of the Scientific Committee of "International Conference on Technological Advances in Electrical Engineering" ICTAEE'23, May 23-24, 2023, Skikda, Algeria.
- Member of the Scientific Committee of "2023 IEEE International Conference on Advanced Systems and Emergent Technologies (IC_ASET'2023).
- Participation in the fifth Healthcare Systems Seminar held online on April 14, 2023, Tunis.
- Member of the Scientific Committee of "Healthcare Systems Day 2024," May 11, 2024, National Engineering School of Tunis (ENIT), Tunis, Tunisia (Hybrid).

Formation:

- Participation in the 1st workshop on the use of FPGA circuits for the design of embedded systems and communication systems, Dec 25-25, 2014.
- Training on the UNIX system, University of Annaba.
- Training in UNIX Network Administration, University of Annaba, organized by CERSIT and AUF.
- Training on VHDL language and FPGA circuits, University of Batna, organized by the University of Batna and the University of Cachan, France.

Areas of Interest:

Embedded systems, real-time systems, DSPs, FPGAs, Algorithm Implementation, microprocessor and microcontroller, Network Administration, computer networks, Internet of Things,

telemedicine, Signal Processing, Coding and Recognition Techniques, Internet of Things (IoT), M2M, V2V, I2V, Smart agriculture.