

University Mustapha Stambouli of Mascara  
Department of Electrical Engineering  
Algeria

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**Samir Ghouali**, Born on 19 June 1988 Tlemcen

Algeria, Single

[https://www.researchgate.net/profile/Samir\\_Ghouali](https://www.researchgate.net/profile/Samir_Ghouali)

## **Education**

June 2017: Thesis; Samir Ghouali, Mohammed Feham: Développement d'applications de Télémedecine sur Smartphones. 06/2017, Supervisor: Mohammed Feham

2012: Master in Telecommunications option 'Mobile Networks and Services'

2010: Bachelor's degree in Electronics option 'Telecommunications'

2007: SNV Bacalaureate, Hamed Bendimerad High School

## **Experience Pro**

Team Leader subcontractor MSAN ZTE XIAN RUIJI (July. 2015 – August 2016), East of Algeria

Team Leader subcontractor MSAN HUAWEI MATISON ADVANCED TECHNOLOGY (Jan. 2014 – April. 2014), Relizane, Chlef, Oran

## **Research Experience**

Jan 2018 – Now

### **Associate Professor**

University Mustapha Stambouli of Mascara, Department of Electrical Engineering, Mascara, Algeria

Oct 2012 – Jun 2017

### **PhD Student**

Abou Bakr Belkaid University of Tlemcen, Département de Génie Electrique et Electronique, STIC Lab, Tlemcen, Algeria

## **Skills & Activities**

### *Skills*

Telemedicine, Mobile Application Development, Engineering, Applied and Computational Mathematics, Telecommunications, Wireless Sensor Network, Wireless Communications, Computer Networks Security, Artificial Intelligence, Machine Learning, Fuzzy Goal Programming

### *Languages*

Arabic, English, French

### *Scientific Memberships*

ResearcherID: F-8015-2013

Scopus Author ID: 56406531100

## Journal Publications

- Dinar, A. E., **Ghouali, S.**, Merzougui, R., Bentahar, A., & Merabet, B. (2020). *Towards cloud transport using IP-multiservices access network (MSAN)*, Journal of Optical Communications (published online ahead of print 2020), 000010151520200017. doi: <https://doi.org/10.1515/joc-2020-0017>
- Hocine, A., Guellil, M.S., E, Dogan, **S, Ghouali**, N, Kouaïssah. *A fuzzy goal programming with interval target model and its application to the decision problem of renewable energy planning*. Environ Ecol Stat 27, 527–547 (2020). <https://doi.org/10.1007/s10651-020-00457-1>
- Attaouia Bentahar, Malika Kandouci, **Samir Ghouali**. Erbium/Ytterbium-Doped Waveguide Amplifier (EYDWA) for extended reach of Wavelength Division Multiplexing based free space optics system (WDM/FSO). Journal of Optical Communications. 2020
- Samir Ghouali**, Mohammed Feham, Rachid Merzougui: *An integrated hardware/software in Algeria Telecom access layers NGN model:MA5600T and C300M Shelves MSAN's solutions*. Photonics Letters of Poland 07/2019; 11(2):32., DOI:10.4302/plp.v11i2.899
- Mohammed Seghir Guellil, **Samir Ghouali**, Mostéfa Belmokaddem: *Agriculture gross production value – arable land – active population in agricultural sector and energy consumption causality in 76 countries: A dynamic panel data approach*. 01/2018; 4(10):406., DOI:10.18844/prosoc. v4i10.3111
- Samir Ghouali**, Yassine Zakarya Ghouali, Mohammed Feham: *An Investigation of Analytic Decision During Driving*. International Journal of Advanced Computer Science and Applications 02/2017; 8(2):156-165., DOI:10.14569/IJACSA.2017.080221
- Samir Ghouali**, Mohammed Feham, Yassine Zakarya Ghouali: *The Granger Causality Effect between Cardiorespiratory Hemodynamic Signals*. Springer Proceedings in Mathematics & Statistics (PROMS), 124 edited by Ke Chen, Anton Ravindran, 07/2016: chapter Forging Connections between Computational Mathematics and Computational Geometry: pages 275-300; Springer Proceedings in Mathematics & Statistics., ISBN: 978-3-319-16138-9 (Print) 978-3-319-16139-6 (Online), DOI:10.5176/2251-1911\_CMCGS14.50\_23
- Samir Ghouali**, Mohammed Feham, Yassine Zakarya Ghouali: *The Direction of Information between Cardiorespiratory Hemodynamic Signals: Test Analysis using Granger Causality*. 10/2014; 2(2):57-66., DOI:10.5176/2251-3388\_2.2.52
- Samir Ghouali**, Mohammed Feham, Yassine Zakarya Ghouali: *Causal relationships between Cardiorespiratory Hemodynamics signals: test analysis using panel cointegration*. WCCAIS'2014 Congress; 01/2014, DOI:10.1109/WCCAIS.2014.6916591
- Samir Ghouali**, Mohammed Feham: *Conception and implementation of an ECG Application: system based on android smartphones*. Conférence Nationale sur les Technologies de l'Information et les Télécommunications CNTIT'13, 10-11 Décembre 2013; 12/2013

## Thesis

- Samir Ghouali**, Mohammed Feham: *Développement d'applications de Télémédecine sur Smartphones*. 06/2017, Supervisor: Mohammed Feham

## These Co-supervisions

Amina Elbatoul Dinar, Conception de réseaux de télécom à base de serveurs utilisant une plateforme Unix/Linux. Début de thèse : Décembre 2018 (Supervision : Boualem Merabet; Co-Supervision : Ghouali Samir).

## Books

**Samir Ghouali**, Mohammed Feham: Development of Telemedicine Applications On Smartphones. 2019 International Book Market Services Ltd edited by Hamza Azaoui, 09/2019; Noor Publishing - international book Market Services Ltd., ISBN: 978-620-0-07072-2

## Book Chapters

Mohammed Anis Oukebdane, **Samir Ghouali**, Emad Kamil Hussein, Mohammed Seghir Guellil, Amina Elbatoul Dinar, Walid Cherifi, Abd Ellah Youcef Taib and Boualem Merabet. COVIDz WEB Predictor: Using X- Ray Images and Deep Learning for Coronavirus Disease Detection. Accepted and Will be Published in Springer.

Amina Elbatoul Dinar, **Samir Ghouali**, Boualem Merabet, Mohammed Feham. (2021). *Packet Synchronization in a Network Time Protocol Server and ASTM Elecsys Packets During Detection for Cancer with Optical DNA Biochip*. In: Khelassi A., Estrela V.V. (eds) *Advances in Multidisciplinary Medical Technologies Engineering, Modeling and Findings*. Springer, Cham. [https://doi.org/10.1007/978-3-030-57552-6\\_7](https://doi.org/10.1007/978-3-030-57552-6_7)

Dinar A.E., Merabet B., **Ghouali S.** (2021). *NTP Server Clock Adjustment with Chrony*. In: Mandal J., Mukhopadhyay S., Roy A. (eds) *Applications of Internet of Things*. Lecture Notes in Networks and Systems, vol 137. Springer, Singapore. [https://doi.org/10.1007/978-981-15-6198-6\\_16](https://doi.org/10.1007/978-981-15-6198-6_16)

**Ghouali S.**, Guellil M.S., Belmokaddem M. (2020). *Looking over the Horizon 2030: Efficiency of Renewable Energy Base Plants in Algeria Using Fuzzy Goal Programming*. In: Hatti M. (eds) *Smart Energy Empowerment in Smart and Resilient Cities*. ICAIRES 2019. Lecture Notes in Networks and Systems, vol 102. Springer, Cham. [https://doi.org/10.1007/978-3-030-37207-1\\_34](https://doi.org/10.1007/978-3-030-37207-1_34)

**Samir Ghouali**, Mohammed Feham, Yassine Zakarya Ghouali: *The Granger Causality Effect between Cardiorespiratory Hemodynamic Signals*. Springer Proceedings in Mathematics & Statistics (PROMS), 124 edited by Ke Chen, Anton Ravindran, 07/2016: chapter Forging Connections between Computational Mathematics and Computational Geometry: pages 275-300; Springer Proceedings in Mathematics & Statistics., ISBN: 978-3-319-16138-9 (Print) 978-3-319-16139-6 (Online), DOI:10.5176/2251-1911\_CMCGS14.50\_23

## Conference Proceedings

Mohammed Anis Oukebdane, Abd Ellah Youcef Taib, **Samir Ghouali**, Walid Cherifi and Amina Elbatoul Dinar. iMED: Ubiquitous healthcare platform for chronic patients. In: The 2020 International Conference on Decision Aid Sciences and Applications (DASA'20), IEEE, 8th – 9th November 2020.

- Mohammed Anis Oukebdane, **Samir Ghouali**, Emad Kamil Hussein, Mohammed Seghir Guellil, Amina Elbatoul Dinar, Walid Cherifi, Abd Ellah Youcef Taib, Boualem Taib. WEB Predictor COVIDz: Deep Learning for COVID-19 Disease Detection from chest Xrays. In: The 2020 International Conference on Decision Aid Sciences and Applications (DASA'20), IEEE, 8th – 9th November 2020.
- Mohammed Seghir Guellil, **Samir Ghouali**, Mostéfa Belmokaddem, Samir Bettahar, Fayçal Mokhtari. *A Fuzzy Goal Programming Model for Selecting the Best Sustainable Renewable Energy Source in Algeria*. In: The 2020 International Conference on Decision Aid Sciences and Applications (DASA'20), IEEE, 8th – 9th November 2020.
- Habib Allah Bouhamida, Boualem Merabet, Mohammed Moulay, **Samir Ghouali**. Securing IP telephony for the specialized Institute of Autism. International Conference on Computer Communication and Internet of Things (ICCCIoT 2020) Dept of IT, Tripura University (A Central University), Agartala, Tripura, India. 2020.
- Habib Allah Bouhamida, Boualem Merabet, Mohammed Moulay, **Samir Ghouali**. (2019). Implementation of two strategies for Securing IP telephony at the Medical Control Department for the specialized institute of Autism. The Electrical Engineering International Conference EEIC'19, Bejaia, Algeria. 2019/12.
- Hamadouche Hadjira, Merabet Boualem, **Ghouali Samir**, Miraoui Abdelfettah and Moulay Mohammed, *Numerical simulation of High Speed Optical Local Area Networks*. 2019 International Conference on Intelligent Systems and Advanced Computing Sciences (ISACS), Taza, Morocco, 2019, pp. 1-5, doi: 10.1109/ISACS48493.2019.9068869.
- Mouweffeq Bouregaa, Mohammed Debbal, **Samir Ghouali**, Mohammed Zakarya Baba-Ahmed, Abdelfettah Miraoui, Hadjira Hamadouche. 5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING 2019, 17-19 DECEMBER 2019, ISTANBUL
- Mouweffeq Bouregaa, Mohammed Debbal, Abdelfettah Miraoui, **Samir Ghouali**, Hadjira Hamadouche, Mohammed Moulay, Benzerga Fellah. 5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING 17-19 DECEMBER 2019, ISTANBUL
- Saida Bennabti, Dinar Amina Elbatoul, Rachid Merzougui, Boualem Merabet, **Samir Ghouali**: *Risk cryptography planning in Telecommunications Systems 'CRYP-TS': Attack Strategy & Ethical Hacking*. Conference on Electrical Engineering (CEE 2019), Ecole Militaire Polytechnique, Algiers; 04/2019
- Mohammed Seghir Guellil, Mostéfa Belmokaddem, **Samir Ghouali**: *Agriculture Gross Production Value- Arable Land- Active Population in Agricultural Sector and Energy Consumption causality in 76 countries: A Dynamic Panel Data Approach*. 6th World Conference on Business, Economics and Management (BEM-2017), North Cyprus; 05/2017
- Samir Ghouali**, Mohammed Feham, Yassine Zakarya Ghouali: *The direction of information between cardiorespiratory hemodynamic signals: Test Analysis using Granger Causality*. operations recherche and statistics symposium 2014; 04/2014
- Samir Ghouali**, Mohammed Feham, Yassine Zakarya Ghouali: *Causal relationships between Cardiorespiratory Hemodynamics signals: test analysis using panel cointegration*. WCCAIS'2014 Congress; 01/2014, DOI:10.1109/WCCAIS.2014.6916591

**Samir Ghouali**, Mohammed Feham: *Conception and implementation of an ECG Application: system based on android smartphones*. Conférence Nationale sur les Technologies de l'Information et les Télécommunications CNTIT'13, 10-11 Décembre 2013; 12/2013

## **Projects**

*P.R.F.U*

**Moyenne généralisée dans des variétés différentielles et applications.**

**(Generalized average in differential varieties and applications)**

Code : C00L03UN290120200002

Approval Date **01/01/2020**

For a period of: **04** years, starting: **01/01/2020**

Under the responsibility of (project leader): **Abdelkader Segres**

Practicing in: University Mustapha STAMBOULI, Mascara

Involved as a member of the P.R.F.U. l'Université Mustapha STAMBOULI de Mascara.

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*CNEPRU*

**Plateforme de fusion des données multi-capteurs sans fil dédiée aux services de santé.**

**(Multi-sensor wireless data fusion platform dedicated to healthcare)**

For a period of: 04 years

Under the responsibility of (project leader): Rachid Merzougui

Practicing in: University Abou Bekr Belkaid, Tlemcen, STIC Lab

Involved as a member

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Project ATRSS (Thematic Agency for Research in Health Sciences). Diabetic Vision. Réf: 114/DPPR/ATRSS/2020

For a period of: 04 years

Under the responsibility of (project leader): **Mohammed Feham**

Mixed Teams: University Mustapha STAMBOULI Mascara, University Tlemcen (STIC Lab), Ophthalmologists, General Practitioners, IT development company (INNODEV) as well as other teachers in Telecom and Economics.

Involved as a very active member of the Mustapha STAMBOULI University of Mascara.