



# Zeineb FKI

**Doctoral degree in computer systems engineering**

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## Formation

2017-2023	<b>PhD diploma in Computer Systems Engineering (ISI)</b> <b>Subject:</b> Convolutional neural network-based models for medical data classification <b>Laboratory:</b> REGIM (Research Group on Intelligent Machines) laboratory
2008-2009	<b>Research Master Diploma in New Technologies of Dedicated Information Systems (NTSID)</b> <b>Subject:</b> QoS monitoring and analysis of distributed event-based systems in ad-hoc networks <b>Laboratory:</b> REDCAD (Research laboratory on Development and Control of Distributed Applications)
2005-2008	<b>Engineer Diploma of National School of Engineers of Sfax (ENIS)</b> <b>Subject:</b> Quality of service monitoring offered to applications in ad-hoc networks <b>Laboratory:</b> REDCAD (Research laboratory on Development and Control of Distributed Applications) <b>Average:</b> 15.11/20 –14,25/20 –15,79/20
2003-2005	<b>National Competition for Entrance to Engineering Studies Cycles – The 9th of the republic</b> <b>Institute:</b> Preparatory Institute for Engineering Studies of Sfax (IPEIS) <b>Average:</b> 16,00/20-12,83/20
2003	<b>Baccalaureate Diploma in Mathematics</b> <b>School:</b> Pilot School <b>Average:</b> 15,63/20

## Publication

1. Zeineb Fki, Boudour Ammar, Rahma Fourati, Hela Fendri, Amir Hussain, and Mounir Ben Ayed (2022). *A novel deep neural network framework using soft-attention for COVID-19 detection*. Journal Submitted.
2. Zeineb Fki, Boudour Ammar, Mounir Ben Ayed, “*Towards automated optimisation of residual convolutional neural networks for electrocardiogram classification*”, Cognitive Computation, 2023, Q1
3. Wissal Midani, Zeineb Fki, Mounir Ben Ayed, ‘*Online anomaly detection in ECG signal using Hierarchical Temporal Memory*’, Fifth International Conference on Advances in Biomedical Engineering (ICABME19), Tripoli, Lebanon, October 17-19, 2019
4. Zeineb Fki, Boudour Ammar and Mounir Ben Ayed, ‘*Machine Learning with Internet of Things Data for Risk Prediction: Application in ESRD*’, The IEEE 12th International Conference on Research Challenges in Information Science (RCIS 2018), Nantes, France, May 29-31, 2018, class B
5. Zeineb Fki, Boudour Ammar and Mounir Ben Ayed, ‘*Risk Prediction in Smart Home Care*’, The 32nd IEEE International Conference on Advanced Information Networking and Applications (IEEE AINA-2018), Pedagogical University of Cracow, Poland, May 16-18, 2018, class B
6. Zeineb Fki, ‘*Science Shop MyAppWriteIt*’, International days of pedagogical innovation in higher education JIP’2016, Sousse, Tunisia, 2016, Poster

## Teaching Experience

2023/2024	C programming practical work Level: 1 <sup>st</sup> year Preparatory in computer science and multimedia (PIIM) <u>ISIMS - Higher Institute of Computer Science and Multimedia of Sfax</u> Java programming practical work Level: 2 <sup>nd</sup> year Preparatory in computer science and multimedia (PIIM) <u>ISIMS - Higher Institute of Computer Science and Multimedia of Sfax</u>
2022/2023	Federated project course Level: 2 <sup>nd</sup> year licence Software and Information System Engineering (GLSI) <u>ESPIN - International Polytechnic School</u> Decision support system course Level: 1 <sup>st</sup> year master Software Engineering (ILD) <u>ESPIN - International Polytechnic School</u> Operating system 2 Level: 1 <sup>st</sup> year licence Licence Computer Science (LSI) <u>FSS - Faculty of Sciences of Sfax</u>
2008/2009	Computer tools Level: 1 <sup>st</sup> year computer engineering <u>ENIS – National School of Engineers of Sfax</u>

## Supervised Projects

- |      |  |
|------|--|
| 2018 | - Detection of anomalies in online time series from the Internet of Medical Things   |
| 2014 | - Implementation of an electronic document management system<br>- Implementation of a website of security system<br>- Implementation of a notification management system   |
| 2009 | - Various budgets tracking of the state land office<br>- Seizure and tracking of checkbook / ORV applications<br>- Sending an SMS from a PC to a mobile phone<br>- Document viewer<br>- Dental office management |

## Research Projects

- |   |  |
|---|--|
| MyAppWriteIt<br>(2013-2015)             | A science shop framework for facilitating the cooperation between industrials and resources. |
| Mauritanian Tunisian<br>project<br>2023 | Cloud resource allocation (submitted)  |

## Skills

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|-------------------------------|---|
| <b>Programming Languages:</b> | C#, Java, C, Latex, Windev, Python  |
| <b>Web Technologies:</b>      | PHP, HTML, CSS, JavaScript, J2EE  |
| <b>Data Base :</b>            | UML, Oracle, Mysql, Microsoft SqlServer, Access, Excel  |
| <b>Multimedia:</b>            | After Effect  |
| <b>Network :</b>              | OSI, TCP/IP, FTP, SNMP  |
| <b>Operating Systems:</b>     | Linux, Microsoft Windows  |
| <b>Environments:</b>          | NetBeans, Microsoft Visual Studio, Eclipse, Windev, Google Colab, Kanboard, phpmyfaq, TRACE32, Microsoft Office |

## Activities

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|------|--|
| 2023 | - Organizing committee of the 8th Workshop on intelligent Decision Support Systems (iDSS 2023), Faculty of Sciences of Sfax (FSS)<br>- A member of the scientific committee of the 1st IEEE Afro-Mediterranean Conference on Artificial Intelligence (2023 IEEE AMCAI) |
| 2022 | - Participation in the 35 <sup>th</sup> workshop on intelligent machines, December, 18-20, 2022, Sousse<br>- A speaker in the Intelligent Medical Systems & Security (JAS'22), August, 2022, Sfax  |

- A member of the scientific committee of the 2022 IEEE 9th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT)
- 2021
- Participation in the annual reviews training session, organized online February 04, 2021
  - Organizing committee of the 6<sup>th</sup> Workshop on intelligent Decision Support Systems (iDSS 2021), Faculty of Sciences of Sfax (FSS)
- 2020
- Participation in the first Tunisian Forum on Artificial Intelligence AI@tn'2020, organized online from December 28 to December 30, 2020
- 2019
- Organizing committee of the 5<sup>th</sup> Workshop on intelligent Decision Support Systems (iDSS 2019), Faculty of Science of Sfax (FSS)
  - An evaluator chair in the World Olympiad Robot WRO 2019- National School of Engineers of Sfax (ENIS)
  - Microsoft certificate: Introduction to programming using python.
  - Training on English for academic purposes
  - Training on pedagogy
- 2018
- Organizing committee of the 4<sup>th</sup> Workshop on intelligent Decision Support Systems (iDSS 2018), Faculty of Sciences of Sfax (FSS)
  - Local organizing committee chair of the 4th IEEE Middle-East Conference on Biomedical Engineering (IEEE MECBME' 2018), Ramada Plaza Tunis Hotel, Gammarth, March 28-30, 2018, Tunisia
  - An evaluator chair in the World Olympiad Robot WRO 2018- National School of Engineers of Sfax (ENIS)
  - Participation in the 12<sup>th</sup> IEEE International Conference on Research Challenges in Information Science, May 29-31, 2018, Nantes, France
  - Participation in the Sfax Tech Day'2018: Blockchain, Sfax, Tunisia
  - Participation in the 30<sup>th</sup> workshop on intelligent machines, December, 18-20, 2018, Sousse
- 2017
- An evaluator chair in the World Olympiad Robot WRO - Tunisia'2017 - National School of Engineers of Sfax (ENIS)
  - Participation in the workshop on soft skills using the E-learning platform Accenture - Faculty of Medicine of Sfax (FMS)
  - Participation in the third workshop in Intelligent Decision Support Systems (iDSS 2017) - National School of Engineers of Sfax (ENIS)
  - Participation in the education forum - Faculty of Medicine of Sfax (FMS)
  - Participation in the digital marketing training session - Siphax Hotel - Sfax – Tunisia
  - Participation in the workshop on ideation - souk Al-tanmia
  - Participation in the web of science and EndNote online training workshop- November & December 2017
  - Participation in the 29<sup>th</sup> WIMTA workshop, December 18-20, 2017, Sousse, Tunisia
  - Participation in the feature analysis and unsupervised learning seminar, December 20-21, 2017, SUP'COM, Tunis
- 2016
- Participation in the national innovation competition - Saif Hotel - Kasserine
- 2015
- Participation in the regional meeting of innovation - Siphax Hotel - Sfax
  - Exposition at the book fair for children from 18 March until 22 March 2015 – Sfax

- Participation in the open days “from idea...to create” - 4 mars 2015 - Faculty of Economics and Management of Sfax (FSEG)
- Participation in the open days “start your project” - 4 and 5 February 2015- Commercial High School of Sfax (ESC)

2014

- Exposition at the company fair from 19 to 20 November 2014
- MyAppWriteIt is the 2nd regional project in the business and technology exchange CAT 2014 – Siphax Hotel – Sfax
- Participation in the open days “Young promoters meeting and project financing” - 25 June 2014 - Institute of Computer Science and Multimedia of Sfax (ISIMS)
- Exposition at the SIB fair from 09 April until 13 April 2014 - Sfax
- Exposition at the mother and child fair from 26 February until 2 March 2014
- Business creation diploma from Sfax Innovation I – ENIS
- Participation in the awareness and promotion workshop for the national innovation competition, April 2014, Sfax
- Participation in the regional awareness campaign to promote souk al-tanmia, May, 2014, ENIS, Sfax

2013

- Business creation and entrepreneurship certificate from perfect consulting office

### Awards

1. Best competitor in the GAN competition, WIMTA 35, Sousse, 2022
2. Grant from IEEE young professional to sponsor the 6<sup>th</sup> Workshop on intelligent Decision Support Systems (iDSS 2021)
3. Best Pitch Award, WIMTA’2021: "Workshop on Intelligent Machines: Theory & Applications", March 2021
4. Grant from IEEE young professional to sponsor the 5<sup>th</sup> Workshop on intelligent Decision Support Systems (iDSS 2019)
5. Grant from IEEE young professional to sponsor the 4<sup>th</sup> Workshop on intelligent Decision Support Systems (iDSS 2018)
6. Grant from Region 8 IEEE Voluntary Contribution Fund to attend RCIS 2018 Conference
7. Best Poster Award, WIMTA’2017: "Workshop on Intelligent Machines: Theory & Applications", December 2017, Sousse, Tunisia.

### Languages

Arabic, English, French and scholar Deutsch

### Hobbies

Travel - Reading

**Date:** 21/ 09 / 2023