

# Dr. Chebout Mohamed Sedik

(PhD, Accreditation to Supervise Researches)

## AFFILIATION

Lecturer in computer science at the university of Oum El Bouaghi, Algeria.

Member of: **ReLA(CS)2** Laboratory: REsearch LABoratory on Computer Science's Complex Systems.

Team: **DISE**: Distributed-Intelligent Systems Engineering), University of Oum El Bouaghi, Algeria.


- Researcher ID (WoS): P-4858-2016.
- Scopus Author ID: 57193335372
- ORCID: <https://orcid.org/0000-0001-5373-4495>.

### Research Interests

- ✦ Normative Multi-Agent Systems,
- ✦ Agent & Aspect -Oriented Software Engineering,
- ✦ Intelligent Embedded Systems,
- ✦ Machine learning.



### Personal & Contact Info

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### Profiles



### Education

November 2022

**University of Oum El Bouaghi**  
**ALGERIA**

Accreditation to Supervise Researches

November 2014 –  
December 2019

**University of Oum El Bouaghi**  
**ALGERIA**

PhD in computer sciences

Title: **Open Multi-Agent System Controllability**

Supervisor: Pr. Mokhati Farid (University of Oum el bouaghi, Algeria)

Co-Supervisor:

- Pr. Babahenini Mohamed Chaouki (University of Biskra, Algeria)
- Pr. Badri Mourad (University of Quebec TR, Canada)

<p>September 2012 – June 2014</p> <p><b>University of Oum El Bouaghi ALGERIA</b></p>	<p><b>Magister in computer sciences</b></p> <p>Title: <b>Assessing the effect of aspect-oriented refactoring on multi-agent applications: a dynamic analysis</b></p> <p>➤ Specialization: Artificial Intelligence and Image Processing</p>
<p>September 2007 – September 2010</p> <p><b>University of Oum El Bouaghi ALGERIA</b></p>	<p><b>Computer science engineer</b></p> <p>Title: <b>A framework for implementing functional requirements in Multi-Agent Systems</b></p> <p>➤ Specialization: DS (Distributed Systems)</p>
<p>September 2004 – September 2007</p> <p><b>University of Oum El Bouaghi ALGERIA</b></p>	<p><b>DAUS (Diploma in Applied University Studies) in computer sciences</b></p> <p>Title: <b>Developing an information system for managing human resources in SONELGAZ company.</b></p> <p>➤ Specialization: IS (Information System)</p>
<p>June 2004</p>	<p><b>Bachelor degree</b></p> <p><b>Hamzaoui Mohamed L'Aid college, Meskiana Oum el Bouaghi. Algeria</b></p> <p>➤ Specialization: Natural and life sciences.</p>

## Work experience

<p>November 2009 - Avril 2011</p>	<p>IT department manager in Professional Training Centre, Meskiana, Oum el bouaghi, Algeria.</p>
<p>01/04/2011 - 08/10/2014</p>	<p>Software engineer in municipality of Meskiana, Oum el bouaghi, Algeria.</p>
<p>09/10/2014 - 30/09/2017</p>	<p>Assistant professor in the university of Ouargla, Algeria.</p>
<p>01/10/2017 – 15-12-2019</p>	<p>Assistant professor in the university of Oum El Bouaghi, Algeria.</p>
<p>16-12-2019 - 01-11-2022</p>	<p>lecturer in the university of Oum El bouaghi, Algeria.</p>
<p>02-11-2022 - Till today</p>	<p>Senior lecturer in the university of Oum El bouaghi, Algeria.</p>

## Publications in international journals

1. Meziani A, Bourouis, A, **Chebout MS**: **NeutroMAS4SCRM: a combined multi-agent system with neutrosophic data analytic hierarchy process framework for supply chain risk management.** *Journal of Intelligent & Fuzzy Systems*. 10.3233/JIFS-222305, **November 2022**.
2. **Chebout MS**, Kabour O: **Machine Learning-based forecasting models for COVID-19 spread in Algeria.** *Model Assisted Statistics and Applications*, Volume 17(2), pp 99-108; <https://doi.org/10.3233/mas-220013>. **May 2022**
3. **Chebout MS**, Mokhati F, Badri M, Babahenini MC: **Monitoring open multi-agent systems: An aspect-oriented programming-based approach.** *Multiagent and Grid Systems*. vol. 15, no. 2, pp. 155-177, DOI: 10.3233/MGS-190307, **July 2019**.

4. **Chebout MS**, Mokhati F, Badri M: **Assessing the effect of aspect-oriented refactoring on multi-agent applications: a dynamic analysis**. *International Journal of Agent Technologies and Systems*. 7(3), 44-64, DOI :10.4018/IJATS.2015070103, **July 2015**

#### Publications in international conferences

1. Meziani A, Bourouis A, **Chebout MS**: **Neutrosophic Data Analytic Hierarchy Process for Multi Criteria Decision Making: Applied to Supply Chain Risk Management**. *The 5th International Conference on Advanced Aspects of Software Engineering*. **September 17-18, 2022**. DOI: 10.1109/ICAASE56196.2022.9931541.
2. **Chebout MS**., Mokhati F. and Marir T.: **Self-repair measurement in FPGA-based partial reconfigurable systems**. *International Conference on Sustainability in Software Engineering & Business Information Management: Innovation and Applications (SSEBIM)*. **September 23-24, 2022**.
3. **Chebout MS**., Mokhati F. and Badri M.: **NC4OMAS: A Norms-based Approach for Open Multi-Agent Systems Controllability**. In *Proceedings of the 14th International Conference on Agents and Artificial Intelligence - Volume 1: ICAART*, ISBN 978-989-758-547-0, pages 164-171. **February 2022**. DOI: 10.5220/0010793600003116.
4. **Chebout MS**: **AOM4JADE: An Aspect-Oriented Monitoring Approach for JADE-based Multi-Agent Applications**. 2021 *International Conference on Networking and Advanced Systems (ICNAS'21)*, **27-28 October 2021**, pp. 1-6. DOI: 10.1109/ICNAS53565.2021.9628965.
5. **Chebout MS**., Mokhati F., Badri M. and Babahenini MC: **Towards preventive control for Open multi-agent system: an Aspect-based approach**. *International Conference on Informatics in Control, Automation and Robotics (ICINCO)*. Pages: 264-274, DOI: 10.5220/0006005602690274. Lisbon, **29-31 July 2016**.
6. Hariz S, Bahmed L, **Chebout MS**: **Contribution to Environmental Performance Evaluation by Technologies Information Systems**, In *Proceedings of the 13th International Conference on Clean Energy*. Istanbul/TURKEY, **8-12 June 2014**.

#### Computer skills

- **DBMS**: MS Access, MS SQL server, MySQL.
- **Programming language**: Python, Delphi, C/C++, JAVA, SQL, Matlab, AspectJ, MIPS R3000.
- **Web programming language**: HTML5, CSS6, JavaScript, Php.
- **IDE**: Eclipse, NetBeans.
- **Formal specification language**: Maude, JESS.
- **OS**: Windows Xp, Vista, Windows Seven/Eight/10.
- **Modeling Languages**: UML, Agent UML, Aspect UML, Merise.
- **Agent development platforms**: JADE, Agent Factory, MaDKit.
- **Data analysis software**: SPSS.
- **Software**: Microsoft Office Pack, DreamWeaver, PowerDesigner, Visual Paradigm, LaTeX, PhotoShop.

#### Scientific stays

Short scientific stay for 20 days in GISMA University of Applied Sciences. Germany, Potsdam. From 10<sup>th</sup> February, 2023 to 1<sup>st</sup> March, 2023.

#### Scientific Animation

Journal, Conference or events
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<b>ICCSA'2016:</b> International Conference on Computer Science's Complex Systems and their Applications	<b>Date &amp; place</b>	12-14 April, 2016 University of Oum el Bouaghi, Algeria
	<b>Quality</b>	PC Member
<b>SDAIA'2018:</b> Study days on Artificial Intelligence and its Applications	<b>Date &amp; place</b>	11-12 December, 2018 University of Oum el Bouaghi, Algeria
	<b>Quality</b>	Organizer
<b>ICCSA'2021:</b> International Conference on Computer Science's Complex Systems and their Applications	<b>Date &amp; place</b>	25- 26 May, 2021 University of Oum el Bouaghi, Algeria
	<b>Quality</b>	PC Member
<b>SETIT'2022:</b> The 2022 IEEE 9th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT)	<b>Date &amp; place</b>	28-30 May, 2022 Sfax (Tunisia) et Genoa (Italy)
	<b>Quality</b>	PC Member
<b>SDAIA'2021:</b> Study days on Artificial Intelligence and its Applications	<b>Date &amp; place</b>	06- 07 December 2021 University of Oum el Bouaghi, Algeria
	<b>Quality</b>	PC Member
<b>Revue de l'Information Scientifique et          Technique</b>	<b>Quality</b>	Reviewer (since June 2021)
<b>International Journal of Intelligent          Information Technologie (IJIIT)</b>	<b>Quality</b>	Reviewer (since June 2021)
<b>PeerJ Computer Science</b>	<b>Quality</b>	Reviewer (since October 2021)
<b>Inteligencia Artificial</b>	<b>Quality</b>	Reviewer (since March 2022)
<b>Model Assisted Statistics and Applications</b>	<b>Quality</b>	Reviewer (since December 2021)

### Doctoral training provided for PhD students

- ✦ Information and Communication Technologies for scientific writing (27 – 28 July, 2022)

### Teaching

- ✦ Information and Communication Technologies for bachelor students,
- ✦ Networking,
- ✦ Computer architecture,
- ✦ Operational research,
- ✦ Data analysis software's,
- ✦ Computer programming,
- ✦ Multi-Agent Systems,
- ✦ Data bases.

## Supervising in Master' degree

N°	Title	Year
1	Aspect Oriented Monitoring of JADE-based Multi Agent Applications	2020
2	Machine Learning-based forecasting models for COVID-19 spread in Algeria	2021
3	Towards a normative organizational model for Open Multi-Agent Systems	2022
4	Fuzzy Enforcement in Open Multi-Agent systems ( <i>ongoing research project</i> )	2023

## Research projects

N°	Project title	Year
1	Quality Assurance of Intelligent Embedded Systems	2019
2	Engineering of normative multi-agent systems - application to the governance of public policies	2022

Last Update *April 2023*