



Curriculum vitae

Name : SOUIDI
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Grade : Associate professor in Computer Science
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1. TRAINING

- **2008 :** Baccalaureate Natural Science, CHIHANI BACHIR High School, Khenchela , Algeria.
- **2008-2009 :** Mathematics and Computer Science, Abbès University Laghrour , Khenchela , Algeria.
- **2008-2011:** Bachelor’s degree in General Computer Science, Abbes University Laghrour , Khenchela , Algeria.
 - **2011-2013:** Master in Fundamental and Applied Computer Science, Abbès University Laghrour , Khenchela , Algeria.
- **2013 :** Winner of the national scholarship competition abroad, Constantine, Algeria.
 - **2013-2017:** PhD in Computer Science, Harbin Institute of Technology , Harbin, China.
 - **2017 – 2018:** Training in ICT and teaching practices, Center for distance learning, University of Constantine 1, Algeria.
 - **2021:** Accreditation to Direct Research (University of Oum Bouaghi)

2. DEFENDED THESES and DISSERTATIONS

1. **SOUIDI MEH .** (2011). License thesis, University of Khenchela , Algeria. “ *Simulation of the coherence of data distributed on the P2P network based on the NS2 simulator* ”.
2. **SOUIDI MEH. (2013).** Master's thesis, University of Khenchela , Algeria. “ *Proposal of a flexible organizational model for multi-agent systems* ”.
3. **SOUIDI MEH. (2017).** Doctoral dissertation, Harbin Institute of Technology , Harbin, China. “ *MULTI-AGENT PURSUIT-EVASION BASED ON COORDINATION MECHANISMS* ”.

3. EDUCATIONAL & EDUCATIONAL ACTIVITIES RESEARCH

3.1. TEACHINGS INSURED

- Expert System
- XML programming
- Electronics, and System Components
- Human Machine Interface
- Compilation
- Structure Machine 2
- MATLAB
- Numerical calculations
- Introduction to computers
- Computer science 2
- Knowledge representation
- JEE Platform
- Distributed Artificial Intelligence
- **2017-2018 :**
 - ❖ TP: Compilation & Human-Computer Interface 3rd year computer system.
 - ❖ Practical work: MATLAB 2nd Year Master in Materials Physics.
 - ❖ Practical work: Numerical Calculations 2nd year Chemistry License,
 - ❖ Tutorial: Electronics, and Systems Components 1st year Mathematics and Computer Science
 - ❖ Tutorial: Introduction to Computer Science 1st year Economics License.
- **2018-2019:**
 - ❖ Course/TD/TP: Expert System 1st Year Master in Web Security and Technology.
 - ❖ Course/TP: XML Programming 1st Year Master in Web Security and Technology.
 - ❖ Tutorial: Electronics, and Systems Components 1st year Mathematics and Computer Science.
 - ❖ Tutorial: Structure Machine 2 1st year Mathematics and Computer Science.
- **2019-2020 :**
 - ❖ Course/TD/TP: Expert System 1st Year Master in Web Security and Technology.
 - ❖ Course/TP: XML Programming 1st Year Master in Web Security and Technology.
 - ❖ Course/TD: Electronics, and System Components 1st year Mathematics and Computer Science.
 - ❖ Practical work: Computer science 2 1st year Material Science.
- **2020-2021 :**
 - ❖ Course/TD/TP: Expert System 1st Year Master in Web Security and Technology.
 - ❖ Course/TP: XML Programming 1st Year Master in Web Security and Technology.
 - ❖ Course: Electronics, and Systems Components 1st year Mathematics and Computer Science.
- **2021-2022 :**
 - ❖ Course/TD/TP: Expert System 1st Year Master in Web Security and Technology.
 - ❖ Course/TP: J2EE and web development 1st year Master in Web Security and Technology.
 - ❖ Course/TP: J2EE 1st Year Master GLSD Platform.
 - ❖ Course: Electronics, and Systems Components 1st year Mathematics and Computer Science.
- **2022-2023 :**
 - ❖ Course/ TD: Representation of knowledge 1st year Master in Web Security and Technology.
 - ❖ Course/TP: J2EE and web development 1st year Master in Web Security and Technology.
 - ❖ Course/TP: J2EE 1st Year Master GLSD Platform.
 - ❖ Course: Electronics, and Systems Components 1st year Mathematics and Computer Science.
- **2023-2024 :**
 - ❖ Course/ TD: Representation of knowledge 1st year Master in Web Security and

Technology.

- ❖ Course/TP: J2EE and web development 1st year Master in Web Security and Technology.
- ❖ Course: Distributed Artificial Intelligence 1st Year Master AI.
- ❖ Course: Electronics, and Systems Components 1st year Computer Science.

3.2. FRAMES OF MEMORIES OF END STUDY LICENSES

- Design and implementation of a university teacher management application. **Specialty** : *Bachelor's degree in Computer Systems 2017/2018.*

3.3. SUPERVISIONS OF MASTERS THEMES IN COMPUTER SCIENCE

1. Proposal of a task coordination mechanism for MAS based on game theory. **Specialty** : *Master in Security and Web Technology 2018/2019.*
2. Proposal of a trajectory planning algorithm for SMAs based on reinforcement learning. **Specialty** : *Master in Security and Web Technology 2019/2020.*
3. Towards a new organizational model based on Neural Networks for Multi Agent Systems. **Specialty** : *Master in Security and Web Technology 2020/2021.*
4. The Proposal of a New Multi-Agent Access Mechanism Based on the Fairness Principle. **Specialty** : *Master in Security and Web Technology 2021/2022.*
5. Towards New Trajectory Planning for Multi-Agent Systems. **Specialty** : *Master GLSD 2021/2022.*
6. Proposal of an algorithm for generating a timetable based on Particle Swarm Optimization. **Specialty** : *Master in Security and Web Technology 2022/2023.*
7. Multi-agent collaboration for the detection of objective zones based on particles swarm optimization . **Specialty** : *Master GLSD 2022/2023.*

3.4. SUPERVISION DURING LMD DOCTORATE THESES IN COMPUTER SCIENCE

1. **LAASSAMI FERIAL** , “Towards a new task coordination mechanism for multi-agent systems based on a metaheuristic approach”
2. **Boudjij Abdelghani** , “ Category Theory for the Organizational Modeling of Multi-Agent Systems.”

3.5. CO-SUPERVISION DURING LMD DOCTORATE THESES IN COMPUTER SCIENCE

3. **SID NABILA** ., “Proposal of a coalition formation algorithm for multi-agent systems”
4. **SABEG SAMRA** ., “Formal models for the design of Multi-Agent Systems”
5. **SAFIR SAMIR** ., “An organizational multi-agent approach for the design of ambient intelligence systems”

3. PUBLICATIONS AND COMMUNICATIONS INTERNATIONAL

3.1. Newspapers and magazines with impact postman (Category A)

1. **SOUIDI, Mohammed El Habib** , LEDMI, Makhlouf , MAAROUK, Toufik Messaoud, *et al.* Multi-Agent Dynamic Leader-Follower Path Planning Applied to the Multi-Pursuer Multi-Evader Game. *Computing and Informatics* , 2023, vol. 42, no. 5, p. 1158–1183-1158–1183.
2. **SOUIDI, Mohammed El Habib**, MAAROUK, Toufik Messaoud, LEDMI, Makhlouf, *et al.* Multi-Pursuer Multi-Evader Games Based on Dynamic Elimination Priorities of the Dominated Strategies. *Journal of Computer and Systems Sciences International* , 2023, p. 1-14.
3. **SOUIDI, Mohammed El Habib** , HAOUASSI, Hichem, LEDMI, Makhlouf , *et al.* A discrete particle swarm optimization coalition formation algorithm for multi-pursuer multi-evader game. *Journal of Intelligent & Fuzzy Systems* , 2023, no Preprint , p. 1-17.
4. SID, Nabila, DJEZZAR, Meriem, **SOUIDI, Mohammed El Habib** , *et al.* New Game-Theoretic Convolutional Neural Network Applied for the Multi-Pursuer Multi-Evader Game. *Computing and Informatics* , 2023, vol. 42, no. 3, p. 546–567-546–567.
5. RAHAB, Hichem, HAOUASSI, Hichem, **SOUIDI, Mohammed El Habib** , *et al.* A modified binary rat swarm optimization algorithm for feature selection in Arabic sentiment analysis. *Arabian Journal for Science and Engineering* , 2023, vol. 48, no. 8, p. 10125-10152.
6. Maarouk , Toufik Messaoud, and **Mohammed El Habib SOUIDI** Nadia HOGGAS. “Formalization and Model Checking of BPMN Collaboration Diagrams with DD-LOTOS.” *Computing & Informatics* 40.5 (2021).
7. **SOUIDI, Mohammed El Habib** , SONGHAO, Piao, GUO, Li, *et al.* Multi-agent cooperation pursuit based on an extension of AALAADIN organizational model. *Journal of Experimental & Theoretical Artificial Intelligence* , 2016, vol. 28, no. 6, p. 1075-1088.
8. **SOUIDI, Mohammed El Habib** and PIAO, Songhao . A new decentralized approach of multiagent

cooperative pursuit based on the iterated elimination of dominated strategies model. *Mathematical Problems in Engineering* , 2016, vol. 2016.

9. **SOUIDI, Mohammed El Habib** , SIAM, Abderrahim, and PEI, Zhaoyi . Multi-agent pursuit coalition formation based on a limited overlapping of the dynamic groups. *Journal of Intelligent & Fuzzy Systems* , 2019, vol. 36, no. 6, p. 5617-5629.
10. PEI, Zhaoyi , PIAO, Songhao , **SOUIDI, Mohammed El Habib** , *et al.* Coalition Training for Multi-agent Pursuit Based on Neural Network. *Journal of Intelligent & Robotics Systems* , 2019, vol. 95, no. 3-4, p. 887-899.
11. PEI, Zhaoyi , PIAO, Songhao , **SOUIDI, Mohammed El Habib** , *et al.* SLAM for Humanoid Multi-Robot Active Cooperation Based on Relative Observation. *Sustainability* , 2018, vol. 10, no. 8, p. 2946.
12. Qadir, MZ, Piao, S., Jiang, H., & **Souidi** , ME H. (2020). A novel approach for multi-agent cooperative pursuit to capture grouped evaders. *The Journal of Supercomputing* , 76 (5), 3416-3426.

3.2. **Journals and journals indexed Scopus and Engineering Index EI (Category B)**

1. MAAROUK, Toufik Messaoud, **SOUIDI, Mohammed El Habib** , LEDMI, Makhlof , *et al.* Formalization of BPMN Gateways using the DD-LOTOS Formal Language. *Journal of Communications Software and Systems* , 2023, vol. 19, no. 4, p. 254-263.
2. LEDMI, Makhlof , **SOUIDI, Mohammed El Habib** , HAHLER, Michael, *et al.* Mining association rules for classification using frequent generator itemsets in arules package. *International Journal of Data Mining, Modeling and Management* , 2023, vol. 15, no. 2, p. 203-221.
3. BOUDJIDJ, Abdelghani, MERAH, Elkamel , and **SOUIDI, Mohammed El Habib** . Towards a formal multi-agent organizational modeling framework based on category theory. *Informatica* , 2021, vol. 45, no. 2.
4. **SOUIDI, Mohammed El Habib** , PIAO, Songhao , LI, Guo, *et al.* Coalition formation algorithm based on organization and Markov decision process for multi-player pursuit evasion. *Multiagent and Grid Systems* , 2015, vol. 11, no. 1, p. 1-13.
5. **SOUIDI, Mohammed El Habib** , PIAO, Songhao , and LI, Guo. Mobile agents path planning based on an extension of Bug-Algorithms and applied to the pursuit-evasion game. In: *WebIntelligence* . IOS Press, 2017. p. 325-334.
6. **SOUIDI, Mohammed El Habib** , SIAM, Abderrahim, PEI, Zhaoyi , *et al.* Multi-Agent Pursuit-Escape Game Based on Organizational Architecture. *Journal of computing and information technology* , 2019, vol. 27, no. 1, p. 1-11.

3.3. **International conferences with proceedings (with ISBN) and committee of reading**

1. SABEG, Samra , MAAROUK, Toufik Messaoud, and **SOUIDI, Mohammed El Habib** . Formal Specification and Verification for Organization-based systems: A Survey. In: *2022 4th International Conference on Pattern Analysis and Intelligent Systems (PAIS)* . IEEE, 2022. p. 1-6.
2. Abdeldjalil , LEDMI, Makhlof , and **SOUIDI, Mohammed El Habib** . Fault Tolerance in Cloud Computing: A Survey. In: *2021 International Conference on Recent Advances in Mathematics and Informatics (ICRAMI)* . IEEE, 2021. p. 1-6.
3. LEDMI, Makhlof , LEDMI, Abdeldjalil , and **SOUIDI, Mohammed El Habib** . Classification of XML Documents Using Semantic Resources. In: *2021 International Conference on Recent Advances in Mathematics and Informatics (ICRAMI)* . IEEE, 2021. p. 1-5.
4. SIAM Abderrahim, **SOUIDI Mohammed El Habib** , and SAFIR Samir. A MULTI-AGENT SYSTEM FOR GENERATION OF UNIVERSITY TIME SCHEDULES. 8th International Conference on Advanced Computer Science and Information Technology (ICAIT 2019), At : March 30-31, 2019, Zurich, Switzerland.
5. **SOUIDI, Mohammed El Habib** , Toufik Messaoud Maarouk , and Abdeldjalil Ledmi . Multi-agent Ludo game collaborative path planning based on Markov decision process. 5th International Conference on Inventive Systems and Control (ICISC 2021). At: 7-8 January 2021, Coimbatore, India.

5. **AREAS OF INTEREST**

- Distributed Artificial Intelligence,
- Multi-agent systems,
- Task coordination mechanisms,
- Centralized and decentralized movement planning algorithms,
- Game Theory,
- Obstacle avoidance algorithms,
- Machine learning,
- Multi-agent games and simulation,
- The Markov Decision Process and Reinforcement Learning,

6. LANGUAGES PRACTICED

- Arab, French, English : Perfectly Read, And written,
- Chinese : Moderately spoken.