

# CURRICULUM VITAE

## Personal information

- *Personal*
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## Education

- **Ph.D.'s degree** in Computer Science (Constantine University; 2018)
- **Magister's degree** in Computer Science (Mohamed Kheider University; 2011)
- **Engineer degree** in Computer Science (Constantine University; 2007)

## Functions and Affiliations

- **Associate professor**, in computer science

## Teaching modules

- Teaching at the Computer Science Department:
  - 1- Image synthesis;
  - 2- Digital Imaging;
  - 3- Artificial intelligence tools.
  - 4- Cloud Computing & Virtualization
  - 5- Information and Communication Technology
  - 6- Algorithms and Data Structures (1-2-3)
  - 7- Computer Architectures

## International publications

S.ZERTAL, N.DJEDI, C.SANZA, S.SANCHEZ and Y.DUTHEN, « Exploitation des niveaux de détails dans la simulation des comportements d'humains virtuels », ICIST 2011, 1st International Conference on Information Systems and Technologies, 24-26 Avril.

Soumia ZERTAL, Nouredine DJEDI, Cédric SANZA, Stéphane SANCHEZ and Yves DUTHEN, « Exploitation des niveaux de détails dans la simulation des comportements des humains virtuels », CISC 2011, The Second International Conference on Complex Systems, Décembre 06-08, 2011 – JIJEL – ALGERIA.

Soumia ZERTAL, Badr-eddine MILES, and Mohamed BATOUCHE, "Complex Problem Solving using Self-organization Mechanisms". The First International Symposium on Informatics and its Applications (ISIA 2014), 25-26 Février 2014- M'sila- Algérie.

Soumia ZERTAL, and Mohamed BATOUCHE, "A Hybrid Approach for Optimized Composition of Cloud Services", The 2nd International Conference on Big Data, Cloud and Applications (BDCA 2017), 29-30 Mars 2017- Tetuan- Maroc.

Soumia ZERTAL, and Mohamed BATOUCHE, "Cloud service composition based on improved genetic algorithm". The 3rd International conference on networking and advanced Systems (ICNAS 2017), 13-14 Décembre 2017- Annaba- Algérie.

Zertal, S., Laboudi, Z., & Bechoua, S. (2019, December). A Novel Ontology-based Approach for Describing Cloud Services. In 2019 International Conference on Theoretical and Applicative Aspects of Computer Science (ICTAACS) (Vol. 1, pp. 1-8). IEEE.

Djermame, Amine, Houassi, Hichem, & Zertal Soumia. "Binary Archimedes Optimization Algorithm based Feature Selection for Regression Problem". 4th International Conference on Pattern Analysis and Intelligent Systems (PAIS'22). October 12-13 2022, Oum El Bouaghi- Algeria. IEEE.

Sid Karima, Zertal Soumia & Mezioud Chaker. "DeepD\_DrugC: Deep and distributed workflow to predict drug-candidates". 4th International Conference on Pattern Analysis and Intelligent Systems (PAIS'22). October 12-13 2022, Oum El Bouaghi- Algeria. IEEE.

Imed Eddine BOURAMOUL, Soumia ZERTAL & Makhoul DERDOUR, "Bioinspired and Artificial Intelligence Based Approaches for Internet of Things Security: Challenges and Opportunities". 4th International Conference on Pattern Analysis and Intelligent Systems (PAIS'22). October 12-13 2022, Oum El Bouaghi- Algeria.

KAMOUKH Ahmed, Zertal Soumia & CHABOUT Samira. "Bio-inspired approaches for IoT System Control". 4th International Conference on Pattern Analysis and Intelligent Systems (PAIS'22). October 12-13 2022, Oum El Bouaghi- Algeria.

Zertal, S., Batouche, M., Benharkat, A. N., & Benfenatki, H. (2018). A Novel Self Organization Approach for Stigmergy Based Cloud Service Composition. International Journal of Applied Metaheuristic Computing (IJAMC), 9(3), 40-74.

Zertal, S., Batouche, M., & Laboudi, Z. (2020). A novel hybrid optimization-baseapproach for efficient development of business-applications in cloud. InternationaJournal of Information Systems in the Service Sector (IJISSS), 12(4), 14-35.

## . Interests and Qualifications

- The design and production of dynamic websites.
- The use of software: DreamWeaver, Micsosoft Visual Studio,
- The programming languages: C, C ++, java, PHP, Assembler, Pascal, Delphi.
- The use of libraries: OpenGL, SDL, ODE.
- Languages: Arabic, French, English.