Thouraya SAKOUHI

Doctor in Business Computing
MSc in Business Intelligence

Personal details

Born July, 20th 1989 in Tunis, Tunisia
Tunisian
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Research interests

Key words

Data warehousing, trajectory data, semantic modeling, knowledge discovery, machine learning, data mining.

Diplômas

2015-2020

Doctorate in Business Computing
Institut Supérieur de Gestion (ISG) de Tunis
Business computing department
Title: A Complete Framework for Semantic Trajectory Modeling and Analysis
Supervisor: Pr. Jalel Akaichi
With First Class Honors

2013-2014

Master's thesis: Inference on Semantic Trajectory Data Warehouse Using an Ontological Approach
Defense: Very good qualification*; Mark:* 18,50/20
Supervisor: Pr. Jalel Akaichi

2011-2013

MSc Degree in Science and Techniques of Business Intelligence,
specialized in *Computing and Knowledge Management*
Institut Supérieur de Gestion (ISG) de Tunis
Passing grade; Mark 11.41/20*; Ranked* 20/80

2008-2011

BSc Degree in Business Computing

Institut Supérieur de Gestion (ISG) de Tunis
Very good qualification; Mark 16.39/20*; Ranked* 3/254

2007-2008 *Baccalaureate in Mathematics*
Rue Du Pacha secondary school, Tunis
With Honors; Mark: 14,49/20

Internships/Professional experience

Since November 2024 ***Business Computing Assistant Professor***
Location Institut Supérieur de Gestion (ISG) de Bizerte, Université de Carthage, Tunisia.

2018 – October 2024 ***Computer Science Assistant Professor***
Location Esprit School of Business (ESB), Tunis, Tunisia

September – December 2017 ***Invited researcher***
Location L3I lab (La Rochelle, France)
Supervisor Jamal Malki - IUT de La Rochelle
Topic A Mobility Data Model for Web-Based Tourists Tracking
Summary

Tourists, among other moving entities, are considered as an interesting subject of analysis. Actually, tracking tourists at different levels of their travels provides a complete overview of their mobility, a comprehension of their behavior and preferences and then more targeted and high quality services. As a result, this contributes to tourism sector development, and then economical development at the local, national and international levels. Many literature works for tourist mobility analysis were based on data generated from sensor devices used to track tourists. However, collection and processing of such data raises privacy issues. Web-based tracking is another source of tourists mobility data. In fact, self-drive tourists access touristic information available on the Web to plan for their trips. Accordingly, tourism professionals track their requirements in touristic information and then their mobility. Yet, since touristic information is managed at a territorial level, tracking tourists' movement by tourism professionals, out of their territory, is not a straightforward task. In this context, DATAtourisme, an ontology to integrate touristic information at the national level in France was proposed. Accordingly, throughout this work we discussed tourists mobility data capture and the related challenges. Then we made use of the DATAtourisme ontology to implement a mobility data model for tracking tourists at a national level in France.

2014 – 2017 ***Teaching assistant***
Location Institut Supérieur de Gestion (ISG) de Tunis, Université de Tunis, Tunisia.

July 2015 – January 2016 ***Training/ Professional experience***

Location Sopra HR, Tunis

Position Customer support engineer

July – December 2014 ***Training/ Professional experience***

Location Téléperformance, Tunis

Position Technical advisor for SFR Telecom France

March – May 2013 ***Research & development internship***

Location L3I lab (La Rochelle, France) and Bestmod lab (Tunis, Tunisia)

Supervisors Jalel Akaichi - ISG de Tunis
Jamal Malki - IUT de La Rochelle
Alain Bouju - IUT de La Rochelle

Topic Inference on Semantic Trajectory Data Warehouse Using an Ontological Approach

Summary

Using location aware devices is getting more and more spread, generating then a huge quantity of mobility data. The latter describes the movement of mobile objects and is called as well *Trajectory* data. In fact, these raw trajectories lack contextual information about the moving object goals and his activity during the travel. Therefore, the former must be enhanced with semantic information to be called then *Semantic Trajectory*. The hereinafter conducted researches are motivated by the scenario from the marine mammals tracking application. The main objective behind is analyzing the behavior of the seal animals. The semantic models proposed in the literature are generally composed of thematic, spatial and temporal ontologies and rules to support inference and reasoning tasks on data. Thus, calculating inference on moving objects trajectories considering all thematic, spatial and temporal rules can be very time and space consuming depending on the amount of data involved in this process. On the other side, *Trajectory Data Warehouse* is an efficient tool for analyzing and extracting valuable information from raw mobility data. For that we proposed throughout this work a Semantic Trajectory Data Warehouse design, inspired from an ontology model. We will emphasis the trajectory to be seen as a first class semantic concept, providing then a semantic multidimensional model, which is meant to be more than a spatio-temporal data repository for storing and querying raw movement. Then we apply the inference on the proposed model to see if we can enhance it and make the complexity of this mechanism manageable.

July – September 2012 ***Research & development internship***

Location Optimal Manager (IT company), Tunis

Topic Migration of the company data from a database to a knowledge base (OWL)

July – September 2011 ***Research & development internship***

Location Optimal Manager (IT company), Tunis
Topic Modeling and implementation a BI module
Summary

This internship aims to develop a decision support system for the UNIT company as part of its commercial activity. This research and development work is divided into two main tasks. The first is a research component that consists of defining and modeling relevant decision indicators and criteria from databases relating to the commercial activity of the company. These indicators "summarize" relevant information in the databases defining the optimality criterion relating to the commercial profitability of the company. The second task is the application of the first and consists in implementing the proposed model to put it into production using a set of open source tools: Pentaho BI Suite (ETL, OLAP, reporting), J2EE (hibernate, JSF, Spring), Liferay portal, MySQL.

July – August 2010 ***Summer internship***
Location Ooredoo Tunisia (telecommunications operator), Tunis
Quality, audit & management department

July 2009 ***Summer internship***
Location SME Sécurité, Tunis
Sales & accounting departments

Teaching

Academic year ***2024-2025***
Location ISG Bizerte, Université de Carthage
Subject *Algorithms and Data Structures 1*, 1st year of Business Computing BS (63H of integrated course x 1 class)
Introduction to Python Programming, 1st year of Business Computing BS (42H of integrated course x 1 class)
Location Esprit School of Business
Subject *Web Programming 1 - 2nd* year of Business Computing – international classes (42H of integrated course x 2 classes, responsible of the module)
Web Programming 1 - 2nd year of Business Computing BS (42H of integrated course x 3 classes, responsible of the module)

Academic year ***2023-2024***
Location Esprit School of Business
Subject *Web Programming 1 - 2nd* year of Business Computing – international classes (42H of integrated course x 2 classes, responsible of the module)
Web Programming 1 - 2nd year of Business Computing BS (42H of integrated course x 3 classes, responsible of the module)
Data Mining and Analysis - 2nd year of Business Intelligence BS (31.5H of integrated course x 2 classes, responsible of the module)
Introduction to BI, 1st year of Business Computing BS (21H of integrated course x 5 classes, responsible of the module)

Academic year ***2022-2023***

Location Esprit School of Business
Subject *Algorithms, Data Structures and Python Programming 1*, 1st year of Business Computing BS – international classes (63H of integrated course, responsible of the module)
Algorithms, Data Structures and Python Programming 2, 1st year of Business Computing BS – international classes (63H of integrated course, responsible of the module)
Data Mining and Analysis - 2nd year of Business Intelligence BS (31.5H of integrated course x 2 classes, responsible of the module)
Web Programming 1 - 2nd year of Business Computing BS (42H of integrated course x 4 classes)

Academic year ***2021-2022***
Location Esprit School of Business
Subject *Algorithms, Data Structures and Python Programming 1*, 1st year of Business Computing BS (63H of integrated course x 3 classes, responsible of the module)
Algorithms, Data Structures and Python Programming 2, 1st year of Business Computing BS (63H of integrated course x 3 classes, responsible of the module)
Introduction to BI, 1st year of Business Computing BS *(21H of integrated course)*

Academic year ***2020-2021***
Location Esprit School of Business
Subjects *Algorithms, Data Structures and Python Programming*, 1st year of Business Computing BS (63H of integrated course x 3 classes, responsible of the module)
Algorithms, Data Structures and Python Programming 2, 1st year of Business Computing BS (63H of integrated course x 3 classes, responsible of the module)

Academic year ***2019-2020***
Location Esprit School of Business
Subjects *Algorithms, Data Structures and C Programming 2*, 1st year of Business Computing BS (63H of integrated course x 3 classes, responsible of the module)
Algorithms, Data Structures and C Programming 1, 1st year of Business Computing BS (63H of integrated course x 2 classes, responsible of the module)

Academic year ***2018-2019***
Location Esprit School of Business
Subjects *Excel Expert*, 1st year of Business Computing BS (21H of integrated course x 2 classes)
Algorithms, Data Structures and Java Programming 1, 1st year of Business Computing BS (63H of integrated course x 1 class)
Algorithms, Data Structures and Java Programming 2, 1st year of Business Computing BS (63H of integrated course x 1 class)

Object Oriented Programming with Java, 2nd year of Business Computing BS (42H of integrated course x 1 class)

Academic year	***2016-2017***
Location	ISG de Tunis
Subjects	*.Net Framework and C#*, 2nd year of Business Intelligence BS (21H of directed works x 1 class) *Excel 2013 Expert certification preparation*, 3rd year of Finance, Marketing and Accounting BS (21H of integrated course x 3 classes) *Information Systems and ICT*, 3rd year of Management BS (21H of directed works x 1 class) *HTML5 Certification Preparation*, (21H of integrated course)

Academic year	**2015-2016**
Location	ISG de Tunis
Subject	*Information Systems and ICT*, 3rd year of Management BS (21H of directed works for 1 class)

Academic year	**2014-2015**
Location	ISG de Tunis
Subjects	*Service Oriented Architecture*, 3rd year of Business Computing BS (21H of directed works x 2 classes) *Computer and Internet Certificate preparation*, 2nd year of Management (21H of integrated course x 5 classes)

Academic year	**2013-2014**
Location	ISG de Tunis
Subject	*Operating Systems*, 2nd year of Business Computing BS (21H of directed works x 5 classes)

Projects Supervision and Examination

End-of-studies Projects Supervision

Academic year	***2023-2024***
Location	***ESB***
Entreprise	Bourse de Tunis
Subject	Decision support systems and performance optimization
Student	Fares Amdouni
Level	Business Analytics MS degree
Entreprise	Bourse de Tunis
Subject	BI serving the financial market operations of the Tunis Stock Exchange
Student	Chaima Osman
Level	Business Analytics MS degree
Entreprise	EY

Subject	A BI solution for collecting, pre-processing and analyzing supplier data in West Africa
Student	Yassmine Mosbeh
Level	Business Analytics MS degree
Entreprise	Amen Bank
Subject	Implementation of a decision-making solution for managing agencies' sales activity
Student	Lina Zarrouk
Level	Business Computing BS degree (specialized in BI)
Entreprise	CTN
Subject	Reservation management and analysis solution for the CTN sales department
Student	Rawen Jemai
Level	Business Computing BS degree (specialized in BI)
Entreprise	BFPME Bank
Subject	BI solution for the recovery department of BFPME bank
Student	Mohamed Samet
Level	Business Computing BS degree (specialized in BI)
Entreprise	BeeCoders
Subject	HR Platform: Optimizing Recruitment and Applicant Tracking Processes
Student	Ouled Ali Moemen
Level	Business Computing BS degree (specialized in BIS)
Academic year	***2022-2023***
Location	***ESB***
Entreprise	International SOS
Subject	Implementation of a Business Intelligence solution for compliance in the medical services sector
Student	Skander Stambouli
Level	Business Analytics MS degree
Entreprise	GoodWill
Subject	BI Solution For Stock Data Analysis
Student	Elyes Righi
Level	Business Computing BS degree (specialized in BI)
Entreprise	Esprit IA4U
Subject	Dashboards implementation monitoring inscriptions and prescription processes
Student	Mohamed Bayni
Level	Business Computing BS degree (specialized in BI)
Entreprise	Uman Link
Subject	Implementation of a BI tool and a predictive module on productivity and turnover

Student	Hafedh Amrouch
Level	Business Analytics MS degree
Entreprise	Owliance Tunisie
Subject	Spring batch and data quality monitoring
Student	Oussama Mahmoudi
Level	Business Analytics MS degree
Entreprise	Novatel
Subject	Implementation of a decision-making system connected to a chatbot.
Student	Koussay Ouni
Level	Business Computing BS degree (specialized in BI)
Academic year	***2021-2022***
Location	***ESB***
Entreprise	Astree Assurances
Subject	Design and implementation of a web application for management and monitoring of the sales structure
Student	Mohamed Hosni Belghith
Level	Business Computing BS degree (specialized in BI)
Entreprise	Bismuth Group
Subject	Design and implementation of a BI application for the sales department
Student	Florian Lonte Mengome
Level	Business Computing BS degree (specialized in BI)
Entreprise	Tunisie Trade Net
Subject	Implementation of foreign trade massive data visualization and analysis solution
Student	Chaima Osman
Level	Business Computing BS degree (specialized in BI)
Entreprise	Bourse de Tunis
Subject	Integration of BI layer in the information system of the Tunisian stock exchange
Student	Fares Amdouni
Level	Business Computing BS degree (specialized in BI)
Entreprise	Aiventu
Subject	Implementation of a BI solution for human resources using Dynamics 365 FO data
Student	Mohamed Aziz Debbabi
Level	Business Computing BS degree (specialized in BI)
Entreprise	ATB bank
Subject	Design, implementation and integration of a dashboard from a performance indicator monitoring database
Student	Amen Allah Bouallegue
Level	Business Computing BS degree (specialized in BI)

Academic year	***2020-2021***
Location	***ESB***
Entreprise	Tayara
Subject	Implementation of a data analysis system for the production department within Tayara
Student	Bilel Dridi
Level	Business Analytics MS degree
Entreprise	BNA bank
Subject	Implementation of a decisional application to analyze data and predict credit granting decisions within the BNA bank
Student	Ahmed Ben Abderrazak
Level	Business Computing BS degree (specialized in BI)
Entreprise	Stibois
Subject	Implementation of a decisional solution for Facebook pages data of Stibois and Macintosh
Student	Maryem Ben Brahim
Level	Business Computing BS degree (specialized in BI)
Entreprise	La Poste Tunisienne
Subject	Implementation of a decisional system to minimize congestion within the La Poste Tunisienne offices
Student	Iheb Haouati
Level	Business Computing BS degree (specialized in BI)
Entreprise	BT bank
Subject	Implementation of a decisional application to analyze credits data at BT
Student	Wassim Abaidia
Level	Business Computing BS degree
Entreprise	Medianet
Subject	Implementation of a decisional system to analyze E-Reputation data of the influenceur.tn website
Student	Mohamed Ali Touati
Level	Business Computing BS degree
Academic year	**2019-2020**
Location	**ESB**
Entreprise	Plug&Tel
Subject	Setting up a BI solution based on time-series database
Student	Feres Rahmouni
Level	Business Computing BS degree
Entreprise	STB Bank
Subject	Conception and implementation of a web and mobile applications for the documents on-line signature

Student	Abdessalem Kharroubi Essaied
Level	Business Computing BS degree
Entreprise	Medis Labs
Subject	Conception and implementation of a BI solution for cost accounting
Student	Mohamed Ridha Lamine
Level	Business Analytics MS degree
Academic year	***2013-2014***
Location	***ISG de Tunis***
Entreprise	Tunisian ministry of industry
Subject	Web and mobile platforms for accessing administrative documents
Students	Sabrine Laamari and Marwen Ben Yarou (co-supervision with Pr. Jalel Akaichi)
Level	Business Computing BS degree

Reviewer and jury member of BSc and MSc dissertations

Location	***ESB***
Academic year	***2023-2024***
Entreprise	STB INVEST
Subject	Modernization of BI Tools: Datawarehouse and AI Chatbots for Intelligent Data Management
Student	Salma Ben Miled
Level	Business Computing BS degree (specialized in BI)
Entreprise	Wevioo
Subject	Development of a BI solution and a predictive model for the analysis of stock prices and transaction notices
Student	Rima Ben Haj Ali
Level	Business Computing BS degree (specialized in BI)
Entreprise	Vermeg
Subject	Migration and Enhancement of ISAC Application
Student	Tasnime Ouerdiane
Level	Business Computing BS degree (specialized in BI)
Entreprise	ADACTIM
Subject	Service Desk BI application
Student	Ghassen El Abed
Level	Business Computing BS degree (specialized in BI)
Entreprise	Vermeg
Subject	Design of an intelligent and interactive BI System via Chatbot for monitoring the common business management activities of the company
Student	Youssef Zghal

Level	Business Computing BS degree (specialized in BI)
Entreprise	Amen Bank
Subject	Design and implementation of a BI Solution and a secure web application with an integrated chatbot for the management of unpaid debts, recovery and risks
Student	Eya Hadidane
Level	Business Computing BS degree (specialized in BI)
Entreprise	Huawei
Subject	Automation and analysis of umlaut scoring and network performance (KQI)
Student	Nozha Naffeti
Level	Business Analytics MS degree
Location	***ESB***
Academic year	***2022-2023***
Entreprise	Adactim
Subject	HR Analytics: Implementation of a decision-making support system for human resources management
Student	Raouene Mbarek
Level	Business Computing BS degree (specialized in BI)
Entreprise	STB bank
Subject	Predictive model for detecting customers at credit risk
Student	Sarra Abbene
Level	Business Computing BS degree (specialized in BI)
Entreprise	Hydatis
Subject	A cloud-based, scalable and flexible Regtech platform for mandatory process of identifying and verifying the client's identity when opening an account
Student	Yassine Ben Turkia
Level	Business Computing BS degree (specialized in BI)
Entreprise	Altran Telnet Corporation
Subject	Development of BI solution based on ML technologies
Student	Yasmine Grimene
Level	Business Computing BS degree (specialized in BI)
Entreprise	Monoprix
Subject	Setting up a data warehouse to analyze inventories
Student	Rostom Fatnassi
Level	Business Computing BS degree (specialized in BI)
Entreprise	STB
Subject	Implementation of a predictive ATM supply model
Student	Imen Ben Dai

Level	Business Computing BS degree (specialized in BI)
Entreprise	Vermeg
Subject	Configuration and validation of processes on SOLIFE = business (Solutions) – Lifetri Project (Business Analyst)
Student	Fehmi Chebaane
Level	Digital Management of Information Systems MS degree
Entreprise	Vermeg
Subject	Development management and implementation of WEB portal for the MegaCor module
Student	Haythem Keskes
Level	Digital Management of Information Systems MS degree
Academic year	***2021-2022***
Entreprise	BH bank
Subject	Implementation of a BI solution for the analysis, qualification and prediction of customer flows
Student	Narjes Chebbi
Level	Business Analytics MS degree
Entreprise	La Poste Tunisienne
Subject	Implementation of a BI web application to better manage HR needs
Student	Linda Boukhit
Level	Business Computing BS degree (specialized in BI)
Entreprise	Magasin Général
Subject	Creation of import supplier dashboards
Student	Mahmoud Anas Khalgui
Level	Business Computing BS degree (specialized in BI)
Entreprise	Freelance Provider
Subject	Implementation of an Analytics platform based on ELK technology
Student	Yosra Zaheg
Level	Business Computing BS degree (specialized in BI)
Entreprise	CLEDISS
Subject	Development of an application module focused on accounting management, and implementation of an HR dashboard
Student	Eya Kossentini
Level	Business Computing BS degree (specialized in BI)
Entreprise	WICMIC
Subject	Setting up a dashboard under Qlik Sense on dimensional quality
Student	Nesryne Azzouz
Level	Business Computing BS degree (specialized in BI)
Entreprise	INNOVUP
Subject	Bitcoin Forecasting

Student	Seifallah Youssef
Level	Business Computing BS degree (specialized in BI)
Entreprise	Zitouna bank
Subject	Model the different exchange risks linked to the transfer of money to predict a loss or gain for the current day and its probable value
Student	Ben Slimane Inès
Level	Business Computing BS degree (specialized in BI)
Location	***ESB***
Academic year	***2020-2021***
Entreprise	IGA Tunisie
Subject	Implementation of an analytic solution for fraud detection
Student	Mortadha Hamitouch
Level	Business Analytics MS degree
Entreprise	Abshore
Subject	Implementation of a BI system to supervise cost accounting for an assurance
Student	Ayoub Jallouz
Level	Business Computing BS degree (specialized in BI)
Entreprise	iCompass
Subject	Analysis and visualization of sentiments from comments: Application case to the Cameroonian dialect
Student	Leila Meka
Level	Business Computing BS degree (specialized in BI)
Entreprise	Get Wireless
Subject	An application for processing and analyzing radio KPIs
Student	Amine Mimouni
Level	Business Computing BS degree
Entreprise	AD Tunisie
Subject	Development of dashboards for sales
Student	Hend Hedhli
Level	Business Computing BS degree
Entreprise	BIAT Labs
Subject	Design and implementation of a BI solution to manage data
Student	Ahmed Dahmeni
Level	Business Computing BS degree
Academic year	***2019-2020***
Entreprise	XPR
Subject	XPR Consulting
Student	Moncef Tebourbi

Level	Business Computing BS degree
Entreprise	Attijari Bank
Subject	Intelligent calendar: Events management platform
Student	Roufaida Jendoubi
Level	Business Computing BS degree
Entreprise	KPMG
Subject	Implementation of a BI solution for the human resources department of KPMG
Student	Hajer Landoulsy
Level	Business Computing BS degree (specialized in BI)
Academic year	***2018-2019***
Entreprise	Orange
Subject	Social listening and chatbot to meet specific customer requirements: Case of Orange Tunisia
Student	Sarra Arfaoui
Level	Digital Marketing MS degree

Supervision of Integrated Projects

Projects performed by groups of students all academic year long integrating objectives from studied modules

Location	***ESB***
Academic years	***2022-2023***
Description	Supervisor and responsible of the project: Design, modeling and implementation of a static web site.
Level	2nd year of BS Business Computing
Academic years	***2020-2021 / 2021-2022***
Description	Supervisor and responsible of the project: Design and implementation of a management application (HR, CRM, accounting, supply management, etc), including the objectives: feasibility study, design (Pencil Project), programming (Python), etc.
Level	1st year of BS Business Computing
Academic years	***2019-2020 / 2020-2021 / 2021-2022 / 2023-2024***
Description	Supervisor and responsible of the project: Design and implementation of a Web/mobile application and BI and/or prediction solution for respectively collecting and analyzing data (transportation data, anomalies in town, Tunisians mood, meteorological data, students' results, etc), including the objectives: scope statement and specifications (Unified Process), web programming (HTML, CSS, JS, PHP, MySQL, Capacitor), BI (SSIS, SSAS, SSRS, Power BI, QlikView, Tableau), machine learning (Python), etc.
Level	3rd year of BS Business Computing specialized in BI

Academic year	***2019-2020***
Description	Supervision and responsible of the project: Design and implementation of a management application (HR, CRM, accounting, supply management, etc), including: feasibility study, market study, scope statement and specifications (Unified Process), programming (Java and Oracle), marketing strategy, etc.
Level	2nd year of BS Business Computing
Academic year	***2018-2019***
Description	Supervisor of the project: Design and implementation of a web site, including the objectives: feasibility study, market study, design (Pencil Project), web programming (HTML, CSS, JS, PHP, MySQL), marketing strategy, etc.
Level	1st year of BS Business Computing

Publications

2024

Sakouhi, T., & Akaichi, J. (2024) Clustering-based Multidimensional Sequential Pattern Mining of Semantic Trajectories. *International Journal of Data Mining, Modeling and Management.*

2021

Sakouhi, T., & Akaichi, J. (2021). Dynamic and multi-source semantic annotation of raw mobility data using geographic and social media data. *Pervasive and Mobile Computing*, *71*, 101310.

2020

Sakouhi, T., Malki, J., Akaichi, J. (2020). A Mobility Data Model for Web-Based Tourists Tracking. In International Baltic Conference on Databases and Information Systems (Baltic DB&IS), 16-19 June, Tallin, Estonia, CEUR Workshop Proceedings, pp. 1-8.

2019

Manaa, M., Sakouhi, T., & Akaichi, J. (2019). A Trajectory Ontology Design Pattern for Semantic Trajectory Data Warehouses: Behavior Analysis and Animal Tracking Case Studies. In *Emerging Perspectives in Big Data Warehousing* (pp. 83-104). IGI Global.

2018

Sakouhi, T., Ounissi, H., Manaa, M., & Al Mashhour, Y. (2018). Immersive Analytics for Floods Management Semantic Trajectory Data Warehouse Ontology. *iLRN 2018 Montana*, 169.

2017

Sakouhi, T., Akaichi, J., Usman, A. (2017). Computing Semantic Trajectories: Methods and Used Techniques. In International Conference

on *Intelligent Interactive Multimedia Systems and Services (KES IIMSS)*, 21-23 June, Vilamoura, Portugal, Springer Cham, pp. 390-399.

2014

Sakouhi, T., Akaichi, J., Malki, J., Bouju, A., Wannous, R. (2014). Inference on Semantic Trajectory Data Warehouse Using an Ontological Approach. In *Foundations of Intelligent Systems (ISMIS)*, 25-27 June, Roskilde, Denmark, Springer International Publishing, pp. 466-475.

Akaichi., J., Sakouhi, T. (2014). Ontology based Trajectory Data Warehouse Conceptual Model A Marine Mammals Tracking Case Study. *International Conference on Databases and Information systems (DB&IS)*, 8-11 June, Tallin, Estonia.

Scientific events and activities

Since 2022	Member of the SMART lab
2013 - 2022	Member of the BESTMOD lab
2014 - 2022	Member of the Business Intelligence Research Team (BIRT)
July 2023	Reviewing a paper submitted to the journal of Social Network Analysis and Mining
June 13-17 2022	Participation to the Mediterranean and African Summer School on Artificial Intelligence
June 16-19 2020	Participation to the virtual 14th International Baltic Conference on Database & Information Systems
February 2020	Reviewing two papers submitted to KES HCIS 2020 conference
May, 5 2018	Attendance (online) to the training session: Make the most of you research (Elsevier)
April, 27-29 2018	Member of the organization committee of the E-GOV conference – Hammamet, Tunisia
April, 28-30 2017	Participation to the E-GOV conference – Hammamet, Tunisia
March, 2 2016	Participation to the Elsevier training session: SCOPUS – Science Direct, Faculté de Medecine de Tunis
April, 15-16 2015	Participation to the Doctoriales ISG, ISG de Tunis
April, 16 2015	Participation to Thomson Reuters training session (Doctoriales ISG)
January, 23-24-26	

2015	Participation to the ISG Research Days, ISG de Tunis
September, 13-15 2013	Participation to the Machine Learning Summer School (MLSS) – Hammamet, Tunisia

Trainings and Certifications

December, 2023	Big data training, preparation for the CDOSS certificate
March, 2023	Deep Learning: mathematical foundations and applications training session
December, 2022	Scrum Master (Scrum Institute) training + certificate
June, 2022	Fundamentals of Accelerated Computing C/C++ (Nvidia) training session + certificate
April, 2022	Fundamentals of Deep Learning (Nvidia) training session + certificate
March, 17-19 2021	Machine Learning: mathematical foundations and applications training session
December, 2021	DA-100: Analyzing Data with Microsoft Power BI training session + certificate
December, 2016	Toefl iBT, Total score 79

IT skills

Programming	Java, C, C#, VB 6.0, VB.Net, Matlab, XML, SQL, Pascal, Assembler, Python
Databases	MySQL, Oracle, Access, SQL Server
Modeling	UML, Merise, PU, Rational Rose, Power AMC, Star UML
Office	MS Office, Latex
Web	PHP, HTML5, CSS, Java EE, Dreamweaver, Liferay portal, Java Script, Apache Tomcat
IDE	Eclipse, Netbeans, Microsoft Visual Studio, Code::Blocks, Turbo Pascal, EasyPHP, Anaconda (Spyder), Google Colab
BI tools	Pentaho BI suite, JasperReports, Crystal Reports, Oracle Warehouse Builder, Weka, MS BI suite, Power BI

Frameworks	Spring, Hibernate, JSF
Semantic web	OWL, RDF, RDFS, Protégé, Sesame
Operating systems	Windows

Languages

Arabic	Native language
French	Fluent
English	Proficient (TOEFL iBT score 79)
Spanish	Basic