
First & Last Name	: Hanen Ben-Abdallah
Nationality	: Tunisian
Current position	: Commissioner for Academic Accreditation for Higher Education, Commission for Academic Accreditation (CAA), Ministry of Higher Education and Scientific Research, Abu Dhabi, UAE
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Email	: Hanene.benabdallah@gmail.com
Web sites:	Google scholar: https://scholar.google.com.au/citations?user=0HcNyWkAAAAJ&hl=en Research Gate: https://www.researchgate.net/profile/Hanene_Ben-Abdallah ORCID: https://orcid.org/0000-0001-9215-4661

Dr. **Hanen (Hanène) Ben-Abdallah** is a Professor of Computer Science with Senior Management experience. She holds a Ph.D. and M.S.E. in Computer and Information Science from the University of Pennsylvania, Philadelphia, USA, and dual bachelor's degrees in Computer Science and Mathematics from the University of Minnesota, Minneapolis, USA.

Dr. Ben-Abdallah has taught at institutions such as the University of Sfax (Tunisia), King Abdulaziz University (Jeddah-KSA), and the Higher Colleges of Technology (HCT) in Dubai, UAE. At HCT, she served as Dean of Faculty Affairs & Scholarly Activities and later as Executive Dean of the Faculty of Computer Information Science & Applied Media. In June 2024, she joined the Commission for Academic Accreditation (CAA), Ministry of Higher Education and Scientific Research, Abu Dhabi, UAE, as a Commissioner for Academic Accreditation.

Since 1997, Dr. Ben-Abdallah's research has focused on software design quality, software reuse techniques, business process modeling, and their application in information and decision support systems, as well as web/cloud-based applications. She has supervised more than 30 MS students and 20 PhD students and mentored junior faculty in their promotion processes. With over 70 journal papers and 100 conference papers published, she has also served on editorial boards and as a reviewer for international journals and conferences.

Dr. Ben-Abdallah is highly knowledgeable in the latest trends, developments, and standards in computer science education. She is a strong advocate for education quality and actively contributes to the accreditation of computer science programs both nationally and internationally. Her expertise in ABET, CIPS, and CAA (UAE) accreditations has made her a valuable resource for the Higher Colleges of Technology and the CAA. Furthermore, she is fluent in English, Arabic, and French, adding to her ability to engage in a wide range of international educational contexts.

Education

- PhD: Computer and Information Science, University of Pennsylvania, Philadelphia, PA, USA, August 1996.
- Master of Science in Engineering (MSE): Computer and Information Science, University of Pennsylvania, Philadelphia, PA, USA, May 1991.
- Bachelors of Science (BS):
 1. Computer Science, University of Minnesota, Minneapolis, MN, USA, June 1989 (High Distinction).
 2. Mathematics, University of Minnesota, Minneapolis, MN, USA, June 1989 (High Distinction).

Professional Activities

- 24/06/2024 – *Present*: Commissioner for Academic Accreditation for Higher Education, Commission for Academic Accreditation (CAA), Ministry of Higher Education and Scientific Research, Abu Dhabi, UAE.

Main responsibilities:

- Accreditation Oversight: Evaluate and approve licensure, accreditation, and programmatic reviews to ensure compliance with CAA standards. (Handled more than 37 program accreditation applications)

in English and Arabic, over the last six months while working with CAA.)

- Evaluation and Decision-Making: Review institutional reports and provide recommendations for accreditation and licensing decisions.
- Policy Development: Contributed to the development of the new Outcome-Based Evaluation Framework for higher education institutions and programs in the UAE.
- 07/01/2020 – 31/01/2024: Executive Dean—Faculty of Computer Information Science & Applied Media (CISAM), Higher Colleges of Technology (HCT), Abu Dhabi, UAE.

Main responsibilities:

- overall governance of the CISAM Faculty across 12 campuses with 250+ faculty and 7500+ students
 - national and international accreditations of the CISAM programs
 - development of new programs meeting the institution's strategic plan and the national priorities
 - faculty recruitment, professional development, and retention
 - educational processes on all campuses
 - strategic policy development and implementation
 - output and qualitative and quantitative results of the faculty
 - acquiring and managing projects that are consistent with the institution's vision, mission and strategy
 - building and managing relationships with external stakeholders
 - 14/10/2018 – 31/03/2020: Dean—Faculty Affairs & Scholarly Activities, HCT, Abu Dhabi, UAE.
- Main responsibilities:
- faculty continuous professional development
 - faculty promotion policy development and implementation
 - applied research strategic initiative development and implementation
 - applied research project management
 - 04/09/2018 – 31/05/2024: Professor—CIS Faculty, HCT, Dubai Men's College, Dubai, UAE.
 - 14/04/2014- 26/08/2018: Consultant to the Vice Deanship of Development, FCIT, KAU, Jeddah, KSA. (Assisting in managing the assessment activities and preparing reports for the ABET accreditation)
 - 13/09/2013- 26/08/2018: Full Professor, IS Department, FCIT, KAU, Jeddah, KSA. (Teaching undergraduate and graduate courses, advising Master's thesis projects, member of the commission of IS graduate studies, mentoring young FCIT Faculty members in their teaching activities.)
 - 23/02/2011 – 12/09/2013: Full Professor of Computer Science, CS Department, Faculty of Economics and Management (FSEG), University of Sfax, Tunisia
 - 07/10/2005 – 22/02/2011: Associate Professor, CS Department, FSEG, University of Sfax, Tunisia.
 - 15/09/1997 – 06/10/2005: Assistant Professor, CS Department, FSEG, University of Sfax, Tunisia.
 - 08/1996 – 08/1997: Postdoctoral research fellow, Electrical and Computer Engineering Department, University of Waterloo, ON, Canada.

Participation in Committees & Pedagogic Projects

- October 2021—*present*: Co-Founder and elected member of the Board of Trustees, Maghrebien University of Sciences and Technology (MUST), Tunisia (A private higher education institution following the American education model.)
- 2021 & 2022: Member of the judging panel of APPs UP—Huawei HMS App Innovation Contest (MENA)
- November 2017- August 2018: IS Department ABET Officer, Faculty of Computing and Information Technology (FCIT), King Abdulaziz University (KAU), Jeddah, KSA. (In charge of academic quality assurance.)
- July 2017- August 2018: Member of the Accreditation Committee of the IS Department, FCIT, KAU, Jeddah, KSA. (Preparation of the IS Department SSR for ABET.)

- October 2016- August 2018: Head of the Postgraduate Curriculum Development Committee, IS Department, FCIT-KAU, Jeddah, KSA. (Reviewing currently in-progress and new proposals for course and curriculum improvements and development of the IS-Mater's degree; Elaboration of a new Executive Master's program; Preparation of the PhD entrance exam.)
- April 2014- August 2018: Consultant to the Vice Deanship of Development, FCIT, KAU, Jeddah, KSA. (Assisting in managing the assessment activities and preparing reports for the ABET accreditation.)
- Member of the National LMD Commission in Computer Science, Tunisian Ministry of Higher Education and Research, 2006-September 2013. (Elaboration and accreditation of the License, Master and Doctorate programs in Computer Science and related domains.)
- Member of the National Jury for Recruiting Associate Professors in Computer Science, Tunisian Ministry of Higher Education and Research, 2012 & 2013.
- Member of the National Jury for Recruiting Assistant Professors in Computer Science Applied to Management, Tunisian Ministry of Higher Education and Research, 2006 & 2007.
- Member of the Scientific Board of the Doctoral School in Economics, Management and Computer Science, FSEG-Sfax, 2009-2013.
- Member of the Commission of Doctorate and University Habilitation in Computer Science, Doctoral School in Economics, Management and Computer Science, FSEG-Sfax, 2005-2013.
- President of the Commission of Master S.I.N.T. (Information Systems & New Technologies), FSEG-Sfax, 2005-2008.
- President of the Commission of Master Computer Security & Audit, FSEG-Sfax, 2005-2008.
- Member of Thesis Committees (25) and University Habilitation Committees (8)
- Member of teams for the elaboration of the following Higher Education programs:
 - Bachelor in Information Technology (Cloud Computing), Bachelor in Information Science (Data Science), HCT-UAE, 2021
 - *Master of Research in Data Science, Bachelor of Science in Software Engineering*, MUST-Tunisia, 2021
 - *Bachelor of Science in Computer Science Applied to Management (Licence Fondamentale en Informatique de Gestion)*, FSEG-Sfax, 2006.
 - *Professional Master in Computer Security & Audit*, FSEG-Sfax, 2005.
 - *Master of Research in Computer Science and Multimedia*, Institute of Computer Science and Multimedia-Sfax, 2005.
 - *Master of Research S.I.N.T.*, FSEG-Sfax, 2000 & 2008.
 - Bachelors of Science and Technicians at the Institute of Computer Science and Multimedia-Sfax.

Teaching Activities

Since 1997, I have been teaching both undergraduate and graduate courses in Computer Science. Among the courses that I find great interest in teaching:

- Software engineering related courses (analysis, design, testing & quality assurance; software architecture; design patterns; development processes, algorithms & data structures, programming; mobile app development iOS/Android)
- Systems related courses (computer architecture & organization; circuit design; operating systems; compilers).

Professional Development

- Quality Assurance Leaders Workshop, Commission for Academic Accreditation (CAA), Ministry of Higher Education and Scientific Research (MoHESR), UAE (Oct. 2024)
- Certified External Reviewer, CAA, MoHESR, UAE (Sept. 2022)
- Fundamentals of Program Assessment Workshop, ABET (Feb. 2023)
- Advanced Program Assessment Workshop, ABET (Feb. 2023)
- [Microsoft Certified Educator](#): Technology Literacy for Educators—21st Century Learning Design (Nov. 2021)

- [Leaders of Learning](#), HarvardX (Aug. 2020)

Awards

- CEO Award for Strategic Leadership (Strategic Performance sub-category), The Higher Colleges of Technology, UAE (2022)
- Scholarship for PhD in CIS, University of Pennsylvania-DoD, USA (1991-1996)
- Scholarship for Master's in CIS in the USA, Government of Tunisia (1989-1991)
- Scholarship for Bachelor in Computer Science in the USA, Government of Tunisia – ranked among the top 10 high school graduates in science (1985-1989)

Research Activities

RESEARCH INTERESTS

- Software engineering: Reuse techniques in software and business process engineering; model quality; design and verification of distributed systems; tools and techniques for applying formal methods.
- Application domains: Information systems, Decision support systems, Cloud-based applications.

UNIVERSITY HABILITATION (HDR)

Report: *Formal methods and architecture reuse for the design of complex systems.*
Institution: University of Sfax, Tunisia.

PHD DISSERTATION

Dissertation: *GCSR: a graphical language for the specification, refinement and analysis of real-time systems.*

Advisors: Prof. Insup Lee and Prof. Susan B. Davidson

Institution: University of Pennsylvania, Philadelphia, Pennsylvania, USA.

MSE THESIS

Thesis: *Design and Implementation of UDP/IP for Timix.*

Advisor: Prof. Insup Lee

Institution: University of Pennsylvania, Philadelphia, Pennsylvania, USA.

PHD DISSERTATION ADVISORY

- *The Impact of Adaptable Haptic Feedback Vibration in Single-User and Collaborative VR Learning Environment.* Ourania Koutzampasopoulou Xanthidou. December 2024.
Co-advisor: Dr. Nadine Aburumman (Brunel University, London, UK)
- *Extending the Scope of COSMIC Sizing-ISO 19761: A Combined Measurement Approach for Understanding, Control, and Improvement of Software Product.* Hèla Hakim. December 2023.
- *Density-based Data Classification.* Soumaya Louhichi. July 2019.
- *Towards a COSMIC based Approach for Functional Change Evaluation in UML.* Mariem Haoues. Aug. 2018.
- *Contributions to the socialization of business processes.* Fadwa Yahya. August 2018.
- *A model-driven engineering method for specifying, monitoring, and implementing runtime context changes for interactive systems.* Imen Jaouadi. August 2018.
- *ExtraPL: An Approach for the Extraction and the Evaluation of Software Product Lines.* Mariem Mefteh Chakroun. January 2018.
- *A natural language-based method for requirements specification and design of data warehouses,* Fahmi Bargui. August 2017.
- *A flexible approach for business process externalization to a cloud federation,* Molka Rekik. July 2017.
- *A metrics-based framework for the evaluation of the quality of business process models,* Wiem Khelif.

June 2017

- *Exact and heuristic optimization methods for variants of the back-bag problem*, Mariem Ben Salem.

June 2017

Co-advisor: Prof. Said Hanafi (University of Valenciennes, LAMIH-UMR CNRS, France)

- *Managing model changes and their impact in model-driven engineering*, Dhikra Kchaou. April 2017.
- *A decision support system for business process externalization to the cloud*, Mouna Rekik. April 2017.
- *A QoS monitoring framework for composite web services in the Cloud: from design to run-time*, Rima Grati. July 2016.
- *A business process engineering approach based on the reuse of business process semantic patterns*, Lobna Makni. July 2016.
- *A formal framework for the verification and validation of multidimensional schemas*, Ali Salem. Mars 2016.
- *A design pattern-based approach for the improvement of the semantic and structural quality of UML designs*, Imen Issaoui. August 2015.
- *Security of data warehouses: from the design to the exploitation*, Salah Triki. December 2013.
- Co-advisor: Prof. Omar Boussaid (University Lyon 2, France)
- *A framework based on multidimensional patterns for the design of data warehouses*, Mounira Ben-Abdallah. December 2010.
- *Formal verification and validation of UML models*, Mouez Ali. June 2010.
- Co-advisor: Prof. Faiez GARGOURI (University of Sfax, Tunisia)
- *A bimodal approach for the exploration of audiovisual documents: Application to cinematographic films and football matches*, Emna Jammouci Fendri. December 2009.
- Co-advisor: Pr Abdelmajid Ben Hamadou (University of Sfax, Tunisia)
- *A framework design method for the reuse of designs*, Nadia Bouassida. November 2005.
- Co-advisor: Prof. Abdelmajid Ben Hamadou (University of Sfax, Tunisia)

MASTER THESIS ADVISORY

- *A metrics-based approach for the analysis of model transformation quality: case of SOA adoption*, Mashael Meshal Al-Harhi, Master in IS, FCIT, KAU, 2018
- *A framework for evaluating information system design quality during business process model restructuring activities*, Enaam Faihan Utaibi, Master in IS, FCIT, KAU, 2018
- *DESTINY: a moDel-driven procESs-aware requiremenTs engineerINg methodology*, Mona Ibrahim Jammal, Master in IS, FCIT, KAU (May 2018)
- *Development of a Web service for the design of data marts*, Achraf Ayadi. Master SINT (Information Systems and New Technologies), FSEGS, 2012.
- *Deployment and evaluation of the Web service monitoring framework QMoDeSV on a public Cloud*, Ahmed Masmoudi. Master SINT, FSEGS, 2012.
- *A Software-as-a-Service trust architecture for hybrid Clouds*, Taher Labidi. Master SINT, 2012.
- *A Web service for the evaluation of HMI based on ergonomic rules*, Amira Dhouib. Master SINT, 2012.
- *Detection & correction of UML design faults*. Marwa Mallek, Master SINT, FSEGS, 2012.
- *A semantics-based model transformation definition approach*, Jawaher Ezzine. Master SINT, 2012.
- *Automatic transformation of constrained multidimensional models to Z*, Aroua Boulaaba. Master of Computer Science, ESST-Tunis, 2011.
- *Modeling secure operations in data warehouses*, Emna Guerhazi. Master SINT, FSEGS, 2011.
- *An empirical evaluation and improvement of a design pattern detection method*, Aymen Gammoudi. Master SINT, FSEGS, 2011.
- *An anti-pattern detection method*, Rahma Fourati. Master SINT, FSEGS, 2010.
- *Formalizing the design pattern language P-UML*, Rawia Mokni. Master SINT, FSEGS, 2010.

- *Semi-automatic generation of ETL procedures*, Manel Ben Taher. Master SINT, FSEGS, 2010.

PARTICIPATION IN RESEARCH PROJECTS

- Zayed University, Research Grant
Title: *PRIGTOMOB: PRIVacy-ensured Game-based Task Offloading for MOBILE Blockchains*.
Partners: Grati R. (Primary Investigator, Zayed University), Ben-Abdallah H. (HCT, UAE), Abed M. (University of Valenciennes, France)
Period: 2022-2024
- The Higher Colleges of Technology, Interdisciplinary Applied Research Grant (*submitted Oct. 2022*)
Title: *A Personal Branding Framework for Graduating Arts and Science Majors: Identifying and Enabling Skills to Showcase for Employability*
Partner: *Wing.Studio* (UAE)
Period: *submitted for 2023-2025*
- The Higher Colleges of Technology, Interdisciplinary Applied Research Grant No (96289)
Title: *Development of a Sustainable Ecosystem Towards Zero Hunger: A Collaboration with Grace Conserve Project-UAE Red Crescent*
Partner: *Grace Conserve—UAE Red Crescent* (UAE)
Period: 2021-2023
- Virtual Research Institute (VRI-2019/20) -- *submitted 2021*
Title: *Smart and Optimized Indoor AgTech as an Ecosystem for a Holistic and Sustainable Food Security in Abu Dhabi and UAE*
Partners: Zayed University (UAE), Khalifa University (UAE), International Center for Biosaline Agriculture (UAE), University of Arizona (USA), IMIDRA (Spain), Association for Vertical Farming, Staffordshire University (UK), University Polytechnic Valencia (Spain), Madar Farms (UAE)
Period: 5 years
- Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, grant No (611 - 975 - D1435).
Title: *Adaptive Moving Shadow Detection and Removal by a New Semi-Supervised Learning Technique*.
Partners: Ben-Abdallah H. (Primary Investigator), Kammoun Jarraya S., and Hammami M. (University of Sfax, Tunisia)
Period: 2015.
- Project CMPTM--*Software Quality Models: Development and Empirical Investigation using ISO 9126 Standard, Data Mining Techniques and Software Engineering Repositories*.
Partners: ENSIAS-University Mohamed V –Souissi (Morocco); Mir@cl (ISIMS)
Period: 2013.
- Project DAAD--*Service-oriented Distributed Software Architectures*.
Partners: Darmstadt University of Technology, Philipps-University Marburg (Germany); Mir@cl (ISIMS), RedCad (ENIS) (Tunisia); LAGI laboratory, ENSIAS (Rabat, Morocco).
Period: 2008-2009 & 2009-2010.
- Project CMCU CoCo2 (Project reference 00F1402):
Title: *Platform for the Indexation, Edition, Production and Distribution of Multimedia Documents*.
Partners: Ecole Centrale de Lyon & INRIA (France); ENSI, FSEGS & ISIMS (Tunisia).
Period: 2003-2005.
- Project CMCU CoCo (Project reference 03S1402; Courtiers Coopérants pour des services de qualité sur Internet)—*Cooperative Brokers for services with quality on the Internet*.
Partners: Ecole Centrale de Lyon & INRIA (France); ENSI, FSEGS & ISIMS (Tunisia).
Period: 2000-2001 & 2001-2002

OTHER RESEARCH ACTIVITIES

- Member of the Organization committee of: IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2023), ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2022)
- Founder and Chair of the *Digital Literacy Leadership Forum*, a MENA region forum organized by the Applied Media Faculty, Higher Colleges of Technology, June 2021.
- Co-Chair of the International Conference on Information Technology Trends (ITT), 2020-2022.

- Member of the editorial board of the International Arab Journal on Information Technology ([IAJIT](#)).
- Co-president of the organization committee and steering committee of ASD 2010: 5^{ème} Atelier sur les Systèmes Décisionnels, November 2010, Sfax, Tunisia. www.miracl.rnu.tn/asd10
- Co-president of Conférence francophone sur les Entrepôts de Données et Analyse en ligne (EDA'2010), June 2010, Djerba-Tunisie. www.miracl.rnu.tn/eda10
- Member of the steering committee and co-founder of RTAC 2010: *Libyan-Tunisian Workshop on Recent Trends in Advanced Computing*. www.miracl.rnu.tn/rtac10
- Co-president of the scientific committee of *International Arab Conference on Information Technology* (ACIT'2008), December 2008, Hammamet-Tunisia.
- Co-president of INFORSID 2006: Congrès INformatique des ORganisations et Systèmes d'Information et de Décision, May-June 2006, Hammamet, Tunisia.
- President of organization committee of the summer school *EISINT* 2005, organized by the department of computer science, FSEG-Sfax: *Software certification according to ISO norms*
- PC member of scientific manifestations:
 - International Conference on Artificial Intelligence and Machine Learning (CAIML 2023)
 - Annual Conf. on New Trends in Information & Communications Technology Applications (NTICT 2017)
 - Intern. Conf. on Information and Communication Technology and Accessibility (ICTA 2007-2013; 2017)
 - IEEE Workshop on Modeling and Verifying Distributed Applications (MVDA 2012, 2013, 2015)
 - User Centric Information Systems for Decision Support (UC4DS 2012).
 - International Conference on Future Trends in Computing and Communication (FTCom 2012, 2013)
 - Entrepôts de Données et Analyse en ligne (EDA 2010, 2011, 2012).
 - Intern. Conf. on the Extraction and Management of Knowledge - Maghreb (EGC-M 2010, 2011, 2012)
 - Congrès INformatique des ORganisations et Systèmes d'Information et de Décision (INFORSID 2005, 2007, 2010)

List of Publications

JOURNAL PUBLICATIONS

- J1. Rihab Grassa, Anca Bocanet, Hanène Ben-Abdallah, and Nourchène E. Ben Ayed. "Does Covid-19 reduce food waste in the hospitality sector in Dubai?", *International Journal of Tourism Cities*, Emerald Publishing, UK. (ISI, Scopus) DOI: 10.1108/IJTC-07-2022-0183
- J2. Fahmi Bargui, Hanène Ben-Abdallah. "An ontology-based approach for automatic goal requirements engineering in data warehouse design", *International Journal of Information and Decision Sciences*, Inderscience Publishers, Switzerland. 13(2), 2021. ISSN: 1756-7017 (ISI, Scopus)
- J3. Hamza Gharsellaoui, Jihen Maâzoun, Nadia Bouassida, Samir Ben Ahmed, Hanène Ben-Abdallah. "A Software Product Line Design Based Approach for Real-Time Scheduling of Reconfigurable Embedded Systems Computers in Human Behavior", *Computers in Human Behavior*, Elsevier, volume 115, pages 10492511, February (2021), DOI:10.1016/j.chb.2017.04.026 (ISI)
- J4. Fadwa Yahya, Khoulood Boukadi, Zakaria Maamar, and Hanène Ben-Abdallah. "Definition and Evaluation of BPMN4Social: A Domain-Specific Language for Social Business Process Modeling", *International Journal of Social Media and Online Communities (IJSMOC)*, 12(2), 2020, DOI: 10.4018/IJSMOC.2020070101
- J5. Alzahrani, M.S., Jarraya, S.K., Ben-Abdallah, H. et al. "Comprehensive evaluation of skeleton features-based fall detection from Microsoft Kinect v2". *Signal, Image and Video Processing*, (13):1431–1439 (2019). <https://doi.org/10.1007/s11760-019-01490-9> (ISI, Scopus)
- J6. Mouna Rekik, Khoulood Boukadi, Hanène Ben-Abdallah. "An end-to-end System to Enhance Business Process Performance through New Outsourcing to the Cloud Strategies", *International Journal on Business and Systems Research*, Inderscience Enterprises Ltd, UK. 13(1):1-20 (2019) (Scopus)

- J7. Mariem Haoues, Asma Sellami, Hanène Ben-Abdallah. "Towards Functional Change Decision Support Based on COSMIC FSM Method". *Information and Software Technology*, Springer (110):78-91 (June 2019). ISSN: 0950-5849, DOI : [10.1016/j.infsof.2019.02.004](https://doi.org/10.1016/j.infsof.2019.02.004) (ISI, Scopus)
- J8. Dhikra Kchaou, Nadia Bouassida, Hanène Ben-Abdallah, "Recovering semantic traceability between requirements and design for change impact analysis", *Innovations in Systems and Software Engineering*, Springer London. 11(1):1-15 (First Online 14 March 2019). ISSN:1614-5046, DOI:10.1007/s11334-019-00330-w (ISI, Scopus)
- J9. Fahmi Bargui, Hanène Ben-Abdallah, Jamel Feki. "Enhancing the Involvement of Decision-Makers in Data Mart Design", *International Journal of Data Analysis Techniques and Strategies*, Inderscience Publishers, Switzerland. 11(2):148-175 (2019) ISSN:1755-8050, DOI : 10.1504/IJDATS.2019.098820 (ISI, Scopus)
- J10. Khoulood Boukadi, Rima Grati, Molka Rekik, Hanène Ben-Abdallah. "Business process outsourcing to cloud containers: How to find the optimal deployment?", *Future Generation Computer Systems International Journal of eScience*, Elsevier. 97:397-408 (August 2019) DOI: [10.1016/j.future.2019.02.069](https://doi.org/10.1016/j.future.2019.02.069) (Scopus)
- J11. Fadwa Yahya, Khoulood Boukadi, Zakaria Maamar, Hanène Ben-Abdallah. "Improving the Quality of Business Process Models: Lessons Learned from the State of the Art", *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, World Scientific Publishing Co. Pte Ltd, UK. 27(1):19-39 (21 November 2018) DOI: 10.1142/S0218488519500028 (Scopus)
- J12. Mouna Rekik, Khoulood Boukadi, Nour Assi, Walid Gaaloul, Hanène Ben-Abdallah. "Optimal Deployment of Configurable Business Processes in Cloud Federations", *IEEE Transactions on Network and Service Management* 15(4):1692-1705, Article number 8527548 (December 2018) DOI: 10.1109/TNSM.2018.2880195
- J13. Soumaya Louhichi, Mariem Gzara, Hanène Ben-Abdallah, "MDCUT²: a Multi-Density Clustering Algorithm with Automatic Detection of Density Variation in Data with Noise", *Distributed and Parallel Databases*, Springer Nature Switzerland, 37(1):73–99 (March 2019) DOI: 10.1007/s10619-018-7253-1 (ISI, Scopus)
- J14. Mariem Mefteh, Nadia Bouassida, Hanène Ben-Abdallah. "Towards Naturalistic Programming: Mapping Language-Independent Requirements to Constrained Language". *Science of Computer Programming - Methods of Software Design: Techniques and Applications*, Elsevier, Netherlands, 166: 89-119 (May 2018) DOI:10.1016/j.scico.2018.05.006 (Scopus, ISI)
- J15. Mouna Rekik, Khoulood Boukadi, Molka Rekik, Hanène Ben-Abdallah. "FC4CD: a new SOA-based Focused Crawler for Cloud Service Discovery", *Computing*, Springer-Verlag GmbH Austria. 100(10): 1081-1107 (October 2018). ISSN: 0010-485X, DOI:10.1007/s00607-018-0600-2
- J16. Lobna Makni, Nahla Zaaboub Haddar, Hanène Ben-Abdallah. "An automated method for the construction of semantic business process patterns". *International Journal of Process Management and Benchmarking*, Inderscience, UK. 8(3): 263-290 (2018). ISSN: 1619-1366, DOI: 10.1504/IJPMB.2018.10008279 (ISI)
- J17. Mariem Ben Salem, Raouia Taktak, Ali Ridha Mahjoub, Hanène Ben-Abdallah. "Optimization Algorithms for the Disjunctively Constrained Knapsack Problem", *Soft Computing*, Springer Berlin Heidelberg, Germany. 22(6):2025–2043 (2018), ISSN:1432-7643, DOI:10.1007/s00500-016-2465-7
- J18. Imen Jaouadi, Raoudha H. Ben Djemaa, Hanène Ben-Abdallah. "A model- driven development approach for context- aware systems". *Journal on Software Systems Modeling*, Springer-Verlag Berlin Heidelberg, 17(4):1169-1195 (2018). ISSN: 1619-1366, DOI:10.1007/s10270-016-0550-0 (ISI)
- J19. Jihen Maâzoun, Nadia Bouassida, Hanène Ben-Abdallah. "A new approach mining the SPL feature model and design from product variants". *Ada User Journal*, Ada Language UK Ltd, 39(1): 37-47 (March 2018). ISSN:1381-6551 (Scopus, ISI)
- J20. Khoulood Boukadi, Rima Grati, Hanène Ben-Abdallah. « Une approche pour la prise de décision d'adaptation à base de logique floue pour les SaaS Composites ». *Numéro Spécial de la Revue Ingénierie des Systèmes d'Information: "Décisions, argumentation et traçabilité dans l'Ingénierie des Systèmes d'Information"*, Lavoisier France. 22(4):77-106 (2017), ISSN:1633-1311
- J21. Mouna Rekik, Khoulood Boukadi, Hanène Ben-Abdallah. "An end-to-end system to enhance business process performance through new outsourcing to the Cloud strategies", *International*

- Journal of Business and Systems Research, Inderscience Enterprises Ltd, UK. 63:308-319 (2017)*
ISSN:1751-200X, WOS:000416395100027 (ISI, Scopus)
- J22. Mariem Haoues, Asma Sellami, Hanène Ben-Abdallah, Laila Cheikhi. "A guideline for selecting the appropriate software architecture based on the ISO 25010 quality related characteristics". *Intern. Journal of Systems Assurance Engineering and Management*, Springer. 8(Suppl 2): 886–909, ISSN:0976-4348, DOI:10.1007/s13198-016-0546-8, WOS:000415383700029 (ISI)
- J23. Haitham Barkallah, Mariem Gzara, Hanène Ben Abdallah. "Evolution of the Distributed computing paradigms: a brief road map", *International Journal of Computing and Digital Systems*, 6(5) 2017, ISSN:2210-142X, DOI:10.12785/ijcds/060502
- J24. Dhikra Kchaou, Nadia Bouassida, Hanène Ben-Abdallah, "UML models change impact analysis using a text similarity technique", *IET Software*, 11(1):27-37 (2017). ISSN:1751-8806, DOI: [10.1049/iet-sen.2015.0113](https://doi.org/10.1049/iet-sen.2015.0113), WOS:000395553000004 (ISI)
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