

Dr. ABDELHAKIM HANNOUSSE

GENERAL INFORMATION

FIRST NAME: Abdelhakim
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DATE/PLACE OF BIRTH: February 10th, 1979, El-Oued, Algeria
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DIPLOMAS

JUL 2020 | Habilitation (University Accreditation) in COMPUTER SCIENCE, **Larbi Tebessi University**, Tebessa, Algeria

NOV 2011 | PhD in COMPUTER SCIENCE, **Ecole des Mines de Nantes**, Nantes, France
Title: "Aspectualizing Component Models: Implementation and Interference Analysis"
Supervisor: Pr. Mario SUDHOLT
Co-supervisors: Dr. Rémi DOUENCE & Dr. Gilles ARDOUREL

SEPT 2006 | Master Degree in DISTRIBUTED ARTIFICIAL INTELLIGENCE, **Badji Mokhtar University**, Annaba, Algeria
Supervisor: Pr. Hayet F. MEROUANI
Co-supervisor: Pr. Djamel MESLATI

JUN 2003 | Engineering Degree in ARTIFICIAL INTELLIGENCE , **Badji Mokhtar University**, Annaba, Algeria - SUMMA CUM LAUDE

JUN 1998 | High School Diploma in MATHEMATICS, **Sidi-Brahim High School**, Annaba, Algeria

TRAININGS

AUG 24-28, 2009 | Summer School of AOSD (Aspect-Oriented Software Development), ECOLE DES MINES DE NANTES, France

JUN, 3-12, 2009 | Young Researchers School in Programming (EJCP 2009), DINARD AND RENNES, France

2008-2009 | Doctoral Training Courses, Nantes, France : (1) Design of embedded systems, (2) Parallel Computing, (3) Research Methodology, (4) Research and Business.

JAN - SEPT 2007 | Fellow at UNITED NATIONS UNIVERSITY, INTERNATIONAL INSTITUTE FOR SOFTWARE TECHNOLOGY UNU-IIST, Macau, China
Researcher in the context of formal methods, component-based systems, design patterns and their compositions.

PROFESSIONAL BACKGROUND

SINCE 2011	Senior Lecturer at 8 MAY 1945 UNIVERSITY, Guelma, Algeria Programming paradigms, Formal methods for parallel computing, Component-based software engineering, Software development
2009-2010	Associate Lecturer at ECOLE DES MINES DE NANTES, France Data structures, Human-Machine Interface, Object-oriented programming
2005-2007	Consultant at ANNABA HIGHER INSTITUTE OF MANAGEMENT - ISGA, Algeria Tutor/Seminar Leader for local industrial companies: <i>Sonatrach</i> , <i>Sonelgaz</i> .
2004-2005	Associate Lecturer at BADJI MOKHTAR UNIVERSITY, Annaba, Algérie Teaching computer programming languages
2003-2004	Head Manager of the ALGERIAN INSTITUTE OF MANAGEMENT AND APPLIED TECHNOLOGIES - AIMAT, Hassi-Messaoud, Algeria

PUBLICATIONS

1. **A. Hannousse**, Salima Yahiouche. *Handling webshell attacks: A systematic mapping and survey*. Journal of Computers & Security, 108 (2021), 102366. doi: [10.1016/j.cose.2021.102366](https://doi.org/10.1016/j.cose.2021.102366)
2. **A. Hannousse**, Salima Yahiouche. *Towards Benchmark Datasets for Machine Learning Based Website Phishing Detection: An experimental study*. Journal of Engineering Applications of Artificial Intelligence, 104 (2021), 104347. doi: [10.1016/j.engappai.2021.104347](https://doi.org/10.1016/j.engappai.2021.104347)
3. **A. Hannousse**, Salima Yahiouche. *Securing Microservices and Microservice Architectures: A Systematic Mapping Study*. Computer Science Review, 41 (2021), 100415. doi: [10.1016/j.cosrev.2021.100415](https://doi.org/10.1016/j.cosrev.2021.100415)
4. **A. Hannousse**. *Searching relevant papers for software engineering secondary studies: Semantic Scholar coverage and identification role*. IET Software, 15(1):126-146, 2021, Wiley & Institution of Engineering and Technology publisher. doi: [10.1049/sfw2.12011](https://doi.org/10.1049/sfw2.12011)
5. **A. Hannousse**, Salima Yahiouche. *RF-DNN²: An ensemble learner for effective detection of PHP Webshells*. International Conference on Artificial Intelligence for Cyber Security Systems and Privacy (AI-CSP 2021), El-Oued, Algeria, IEEE Computer Society, 2021. doi: [10.1109/AI-CSP52968.2021.9671226](https://doi.org/10.1109/AI-CSP52968.2021.9671226)
6. **A. Hannousse**, Salima Yahiouche. *A semi-automatic document screening system for computer science systematic reviews*. The 5th Mediterranean Conference on Pattern Recognition and Artificial Intelligence (MedPRAI 2021), Istanbul, Turkey, Springer Verlag, 2021. doi: [10.1007/978-3-031-04112-9_15](https://doi.org/10.1007/978-3-031-04112-9_15)
7. **A. Hannousse**. *FCM: a component-based platform with explicit support of crosscutting and dynamic features*. International Journal of Computer Applications in Technology (IJCAT), 62(1):71-90, Inderscience publisher, 2020. doi: [10.1504/IJCAT.2020.103910](https://doi.org/10.1504/IJCAT.2020.103910)
8. **A. Hannousse**. *A development process for component software with crosscutting and dynamic features*. 2019 International Conference on Theoretical and Applicative Aspects of Computer Science (ICTAACS), Skikda, Algeria, pp. 1-8, IEEE CS, 2019. doi: [10.1109/IC-TAACS48474.2019.8988133](https://doi.org/10.1109/IC-TAACS48474.2019.8988133)
9. **A. Hannousse**. *Dealing with crosscutting and dynamic features in component software using aspect-orientation: requirements and experiences*. IET Software, (13)5:434-446, Institution of Engineering and Technology publisher, 2019. doi: [10.1049/iet-sen.2018.5324](https://doi.org/10.1049/iet-sen.2018.5324)
10. **A. Hannousse**, *Aspectualizing Component Models: Implementation and Interferences Analysis*, LAP LAMBERT Academic publishing, 1st edition, Saarbrücken, Germany, 2012

11. **A. Hannousse**, Rémi Douence, Gilles Ardourel, *Static Analysis of Aspect Interaction and Composition in Component Models*, In Proceeding of the 10th International Conference on Generative Programming and Component Engineering, Portland, Oregon, USA, ACM, 2011
12. **A. Hannousse**, Rémi Douence, Gilles Ardourel, *Composable Controllers in Fractal: Implementation and Interference Analysis*, In Proceeding of the 37th EUROMICRO Conference on Software Engineering and Advanced Applications, Oulu, Finland, IEEE CS, 2011
13. **A. Hannousse**, Gilles Ardourel, Rémi Douence, *Views for aspectualizing component models*, In Proceedings of the Ninth AOSD Workshop on Aspects, Components, and Patterns for Infrastructure Software, ACP4IS'10, pp. 21-25, Rennes, France, 2010
14. Z. Chen, **A. Hannousse**, D. Van Hung, I. Knoll, X. Li, Y. Liu, Z. Liu, Q. Nan, J. Okika, A.P. Ravn, V. Stolz, L. Yang, and N. Zhan. *The Common Component Modelling Example in rCOS*. In CoCoME, The Common Component Modelling Example, volume 5153 of Lecture Notes in Computer Science, pages 116-145. Springer Berlin / Heidelberg, 2008
15. **A. Hannousse**, O. Kazar, D. Meslati, Liu. Z., *A Cohabitation Framework for AOSD Techniques*, In International Review on Computers and Software, IRECOS, vol. 2, n. 4, Praise Worthy Prize, 2007
16. **A. Hannousse**, Z. Liu, *Towards a Calculus for Design Patterns: Patterns Formalization*, Available as a technical report n. 386 at UNU-IIST, <http://www.iist.unu.edu>, 2007
17. **A. Hannousse**, D. Meslati, H.F. Merouani, *Aspect Oriented Programming and Composition Filters: A Conceptual Comparative Study*, In Actas del III Taller de Desarrollo de Software Orientado a Aspectos, DSOA'05, pp.1-10, Granada, Spain, 2005
18. **A. Hannousse**, D. Meslati, H.F. Merouani, *Aspect Oriented Programming and Composition Filters: A Design Patterns Based Comparative Study*, In Proceeding of International Conference on Applied Informatics, CIAA'05, pp. 224-228, Bordj Borreridj, Algeria, 2005
19. D. Meslati, M.T. Kimour, **A. Hannousse**, *On Composition Filters And AspectJ: A PSM to PSM Transformation*, In Seventh International Symposium On Programming and Systems, ISPS'05, Algiers, Algeria 2005
20. **A. Hannousse**, D. Meslati, H.F. Merouani, *State Of The Art Of The Advanced Separation Of Concerns: A Design Patterns Based Comparative Study*, In International Conference on Production, CIP'05, Tlemcen, Algeria, 2005
21. D. Meslati, **A. Hannousse**, M.A. Kenouni, *La Composition de Filtres et AspectJ: Une Comparaison Conceptuelle*, In Eighth Maghrebien Conference on Software Engineering and Artificial Intelligence, MCSEAI'04, Sousse, Tunisia, 2004
22. **A. Hannousse**, Djamel Meslati, Hayet Merouani, *ASOC: A Qualitative and a Quantitative Study Based-Design Patterns*, In Proceedings of National Conference on Informatics of Biskra, SNIB'06, Biskra, Algeria, 2006

PROGRAM COMMITTEE MEMBER & REVIEWER

REVIEW FOR:

- Expert Systems With Applications - Elsevier
- SoftwareX - Elsevier
- Procedia of Computer Science - Elsevier
- IEEE Access - IEEE
- IEEE Internet of Things Magazine - IEEE
- Evolutionary Intelligence - Springer
- Journal of Software : Evolution and Process - Wiley
- IET Software - IET & Wiley
- PeerJ Computer Science - PeerJ Inc.
- Applied Artificial Intelligence (AAI) - Taylor & Francis
- International Journal of Electronic Security and Digital Forensics (IJESDF) - Inderscience

- Jordanian Journal of Computers and Information Technology (JJCIT) - SRSF & PSUT
- Advances in Systems Science and Applications (ASSA)
- Journal of Information Security (JIS) - SCIRP
- Indonesian Journal of Electrical Engineering and Computer Science (IJEECS) - IAES
- IAES International Journal of Robotics and Automation (IJRA)- IAES

PROGRAM COMMITTEE MEMBER:

- SETIT: The 2022 IEEE 9th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications. 2022 Edition (IEEE)
- CSAE: The 5th International Conference on Computer Science and Application Engineering. 2021 Edition (ACM)
- MedPRAI : The Mediterranean conference on Pattern Recognition and Artificial Intelligence. 2016-2022 Editions (Springer)
- ICTAACS : IEEE International Conference on Theoretical and Applicative Aspects of Computer Science, 2019, 2022 Editions (IEEE)
- ICECET: International Conference on Electrical, Computer and Energy Technologies, 2022 Edition, (IEEE)