

CURRICULUM VITAE

OF

Professor SAÏDOUNI Djamel-Eddine

Biography: Djamel Eddine Saïdouni obtained his BEng degree from the University of Mentouri Constantine, Algeria (1990). After that, he joined the LAAS/CNRS Laboratory, Toulouse, France where he prepared his DEA (Diplôme des études approfondies) in communicating systems. He obtained his PhD in theoretical computer science and concurrency from the University of PaulSabatier, Toulouse, France (1996). He is currently a Full Professor and a permanent researcher at MISC Laboratory -Computer Science Dept. at University Abdelhamid Mehri Constantine 2, Algeria. His main research interest is in the formal specification and verification of complex distributed and real time systems.

Institution : Université Abdelhamid Mehri -Constantine 2,
Faculté des nouvelles technologies de l'information et de la communication
Département d'informatique fondamentale et ses applications
Laboratoire MISC

PERSONAL INFORMATION

Last Name: SAÏDOUNI
Name: Djamel Eddine
Date of birth : 17 Mai 1968 à Constantine
E-mails : Saïdounid@hotmail.com, Saïdouni@misc-umc.org,
djamel.Saïdouni@univ-constantine2.dz
URL: <http://www.univ-constantine2.dz/blog/profil-enseignant/saidouni-djamel/>

Actual profession: Full professor at University Adelhamid Mehri – Constantine 2
and Research Director at MISC Laboratory

Thesis:

Sémantique de maximalité : Application au raffinement d'actions dans LOTOS
LAAS – CNRS , Université Paul Sabatier de Toulouse, France, 22 Mars 1996
Advisor : Jean Pierre Courtiat

Skills & Activities

Skills Formal Verification, Formal Methods, Software Testing, Temporal Logic,
Formal Languages, Concurrency, Petri Nets, Graphs, Model Checking,
Evolutionary Algorithms, Verification, Formal Semantics, Theoretical Computer
Science, Automata Theory, Concurrency Theory, Program Semantics, Software
Validation, Software Development, CPN, Optimization, Automata, Model Based
Development, Testing, Model Theory, Algebraic Modeling, Process algebra,
Petri Nets Modeling, Formal Specification

Languages Arabic, English, French

Memberships MISC laboratory, head of FDCS team

Interests Formal Design of Complex Systems

Teaching

Courses Taught

- 1992-1995: Ecole Nationale Supérieure d'Ingénieurs de Constructions Aéronautiques (ENSICA) – Toulouse, France.
 - The formal description technique LOTOS.
 - *This course presents the syntax and the operational semantics of the formal description technique LOTOS. In addition, it presents notions related to bisimulation relation for characterizing equivalent behaviors.*
 - 2000 – 2016: Constantine 1 and Constantine 2 Universities, Algeria :
 - Operating systems : Part 2 (tools for synchronizing concurrent processes: semaphores, monitors, critical regions, thread ...)
 - *This course introduces the different tools for synchronizing processes under a hypothesis of shared memory (semaphores, monitors, critical regions, ...). Also, the problem of resources allocation is addressed. In addition the different classes of deadlock are discussed and the solutions are presented.*
 - Formal semantics of programming languages.
 - *By considering a particular imperative language, operational, denotational and axiomatic semantics are developed. A particular attention is given to manner for developing a programming language.*
 - Formal models for concurrency.
 - *This course focuses on different paradigms for specifying concurrent application. It introduces Petri nets like models and process algebra (LOTOS, CCS and CSP). Several applications are used for showing the interest of each model.*
 - Methods for Modeling Distributed Systems
 - *This course presents introduces the semantic model of LTS (Labeled Transition Systems) for presenting concurrency. Also it introduces the model of Petri net and LOTOS for specifying distributed applications. On this models, a design methodology is developed by focusing of the interest of each verification approach along the development cycle of the system (logic based approach, Bisimulation based approach and test base approach).*
 - Verification and Validation of Distributed Systems
 - *This course presents in detail the different verification approaches used along the development cycle of a distributed system. Under an interleaving semantics, Firstly, temporal logics (LTL, CTL, ...) are presented, also a model checking algorithm is studied; Secondly, notions of bisimulation relations are introduced with their theoretical properties, the MRCP algorithm is studied; Thirdly, conformance testing theory is presented under the model of Refusal Graphs, the method of generating refusal graphs from labeled transition systems is presented. Students must implement all approaches.*
 - Distributed algorithms.
 - *This course introduces the paradigm of distributed programming by considering the hypothesis of the absence of shared memory used by distributed processes (concurrent or cooperative). Several problems are addressed, like critical section, election, distributed rendez-vous, stable properties (termination and deadlock), ... The performance properties of considered algorithms are studied. JADE Plateforme is used for developing some distributed applications.*
 - Advanced distributed algorithms.
 - *This course presented advanced concepts of distributed applications. Broadcasting protocols, Failures detection, Checkpointing , Shared objects, Consensus – Broadcast, ...*
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Training of Highly Qualified Personnel

Training of highly qualified personnel is one of the most important missions of a University Professor. In the past years, I supervised and brought to successful completion:

- 16 Ph.D. students
- 20 Magister students
- 20 Engineer students
- 15 Master students

Below is a summary as well as several lists of Ph.D., Magister, Master and Engineer's students supervised.

Completed Ph.D. Theses under my Supervision:

1. Sofia Kouah, ***Designing of Multi Agent Systems based on Formal Models Integrating Fuzziness*** (Conception des systèmes multi-agents à base de modèles formels intégrant le flou), Abdelhamid Mehri – Constantine 2 University, February 2016.
 2. Radja Boukharrou, ***Formal Modeling of Real Time Ambient Systems for their Spatio-Temporal execution and Analysis*** (Modélisation formelle des systèmes ambiants temps-réel en vue de leur exécution et analyse spatio-temporelles), Abdelhamid Mehri – Constantine 2 University, December 2015.
 3. Meriem Bensouyed, ***Population based Metaheuristics Approaches for Graphs Coloration*** (Approches métaheuristiques à base de population pour la coloration de graphes), Abdelhamid Mehri – Constantine 2 University, November 2015.
 4. Nousseïba Guidoum, ***Graphs Coloration base Approaches for their Distribution*** (Approches de distribution de graphes basées sur leurs colorations), Abdelhamid Mehri – Constantine 2 University, November 2015.
 5. Imed Eddine Chama, ***Formalisation and Analysis of Time and Timed BPEL Processes by means of Time Models*** (Formalisation et analyse des processus BPEL temporellement temporisés par l'utilisation des modèles de temps), Abdelhamid Mehri – Constantine 2 University, June 2015.
 6. Ahmed Chawki Chaouche, ***A Multi-Agent Approach for Designing Intelligence Systems : Formal Model Integrating Planification and Learning*** (Une approche multi-agent pour la conception de systèmes d'intelligence ambiante : Un modèle formel intégrant planification et apprentissage), Abdelhamid Mehri – Constantine 2 University, Pièrre et Marie Curie University, Mai 2015.
 7. Guellati Souad, ***Logic Verification of Real Time Systems in the Context of the Maximality Semantics*** (Vérification Logique des Systèmes Temps Réel dans le Contexte de la Sémantique de Maximalité), Abdelhamid Mehri – Constantine 2 University, Avril 2015.
 8. Mokdad Arous, ***Caracterization of Concurrent Systems Perfomances in the Context of the Maximality Semantics*** (Caractérisation des performances des systèmes concurrents dans le contexte de la sémantique de maximalité). Abdelhamid Mehri – Constantine 2 University, Janvier 2015.
 9. Kenza Bouarroudj, ***Formal Testing of Stochastic Real Time Systems***. Abdelhamid Mehri – Constantine 2 University, Décembre 2014.
 10. Adel Benamira, ***Behavioral Verification of Timed Systems : Maximality Approache*** (Vérification comportementale des systèmes temporisés : Approche de maximalité). Abdelhamid Mehri – Constantine 2 University, Avril 2013.
 11. Ilhem Kitouni, ***Models and Algorithms for Testing Real Time Systems*** (Modèles et algorithmes pour le test des systèmes temps réel). Abdelhamid Mehri – Constantine 2 University, Mars 2013.
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12. Hiba Hachichi, *Formal Testing of Real Time Systems : Transformation Graphs Approach* (Test formel des systèmes temps réel : Approche de transformation de graphes). Abdelhamid Mehri – Constantine 2 University, Mars 2013.
13. Toufik Messaoud Maarouk, *Formal Models for Designing Real Time Systems* (Modèles formels pour la conception des systèmes temps réel), Mentouri-Constantine1 University, Juin 2012.
14. Zine Elabidine Bouneb, *Symbolic Verification of Critical Systems: A Distributed Approach* (Vérification symbolique des systèmes critiques : Approche distribuée). Mentouri-Constantine1 University, Mars 2011.
15. Nabil Belala, *Time Models and their interest for the Formal Verification of Real Time Systems* (Modèles de temps et leur intérêt à la vérification formelle des systèmes temps réel). Mentouri-Constantine1 University, Octobre 2010.
16. Abdesslem Layeb, *The Use of Combinatorial Optimization Approaches for the Verification of Real Time Applications* (Utilisation des approches d'optimisation combinatoire pour la vérification des applications temps réel). Mentouri-Constantine1 University, Mai 2010.

Completed Magister Theses under my Supervision:

17. Brahim Djehaichia, *Algorithmes évolutionnaires pour la génération distribuée des espaces d'états dans un environnement dynamique*, University of Annaba, Algeria, January 2016.
 18. Khalil Mecheraoui, *Spécification formelle des processus métiers par l'utilisation des réseaux de Petri temporellement temporisés*, University of Khenchela, Algeria, December 2015.
 19. Samir Chebbi, *Sécurité des applications NFS*, University of Annaba, Algeria, March 2015.
 20. Abd Elouahab Khia. *Génération du code java à partir de spécifications D-LOTOS étendu*, University of Khenchela, Algeria, Année 2011.
 21. Amel Boumaza, *Algorithmes de model checker opérant sur les DATA* (Durational Action Timed Automata)*. Université Mentouri Constantine, Novembre 2010.
 22. Mohamed Khergag, *Interprétation de spécifications D-LOTOS étendu en terme d'automates temporisés avec durées d'actions*, University of Khenchla, Algeria, 2010.
 23. Khaled Djaber, *Vérification formelle des systèmes temps réel*. University of El Oued, Algeria, 2010.
 24. Nadjoua Saidane, *Un système d'aide au diagnostic médical dans un environnement temps réel et critique*. Mentouri - Constantine1 University, Algeria, 2010.
 25. Messaouda Bouneb, *Vérification comportementale des réseaux de Petri sous une sémantique de maximalité*. Université Oum El-Bouaghi, Algérie., Février 2009.
 26. Hamza Ghougna, *Méthode évolutionnaire quantique pour la vérification des systèmes concurrents*. University of Tébessa, Algeria. January 2009.
 27. Ilhem Kitouni, *Déterminisation des automates temporisés avec durées d'actions pour le test formel*. Mentouri - Constantine1 University, Algeria. December 2008.
 28. Abdelghani Alidra, *Approche de maximalité pour le test formel des applications atemporelles et temporelles*. Mentouri - Constantine1 University, Algeria. December 2007.
 29. Farid Arfi, *De la vérification symbolique entrelacée à la vérification symbolique basée sur la sémantique de maximalité*. Mentouri - Constantine1 University, Algeria. June 2007.
 30. Mokdad Arous, *Etude de la complexité de modèles de spécification et de méthodes de vérification des systèmes complexes*. Mentouri - Constantine1 University, Algeria. June 2007.
 31. Toufik Messaoud Maarouk, *Spécification formelle des systèmes mobiles temps réel*. University of Batna, Algeria. June 2006.
 32. Adel Benamira, *Vérification des équivalences de comportements des systèmes concurrents*. Mentouri - Constantine1 University, Algeria. June 2006.
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33. Nabil Belala, *Formalisation des systèmes temps réel avec durées d'actions*. Mentouri - Constantine1 University, Algeria. June 2005.
34. Afifa Ghanai, *Approche Test pour la Vérification Formelle de comportements basée sur la Sémantique de Maximalité*. Centre universitaire d'Oum Elbouaghi, Algérie. Juin 2005.
35. Ammar Merazga, *Approche multi-agents pour la supervision des systèmes industriels distribués*. University of Oum Elbouaghi, Algeria. October 2004.
36. Salim Benayoun, *Algorithmes pour la vérification par des relations de bissimulation basées sur la sémantique de maximalité*. Mentouri - Constantine1 University, Algeria. June 2003.

Completed Master Projects under my Supervision:

37. Khennaoui Roumeissa et Khecha Samiha, *Systèmes Ambiants*, Abdelhamid Mehri – Constantine 2 University, Algeria, June 2015.
 38. Saïdi Imen et Bouden, *Approche de tests distribuée*, Abdelhamid Mehri – Constantine 2 University, Algeria, June 2015.
 39. Mahfud al-la Alamin, *Distribution des graphes dirigée par les applications*, Abdelhamid Mehri – Constantine 2 University, Algeria, June 2014.
 40. Sara Djeniba and Marwa Tolba, *Génération symbolique des automates temporisés avec durée d'action : Approche centralisée et distribuée*, Abdelhamid Mehri – Constantine 2 University, Algeria, June 2014.
 41. Adama Modibo Diawara, *Formalisation du langage WS-BPEL par le langage D-LOTOS : application à la composition des services Web*, Abdelhamid Mehri – Constantine 2 University, Algeria, June 2013.
 42. Ahmed Chaouki Chaouche, *Distribution adaptative d'un espace d'états, Application aux STEMs et Réseaux de Petri*. Mentouri - Constantine1 University, Algeria, June 2011.
 43. Asma Chachoua et Radja Boukharrou, *Mise en œuvre distribuée de la sémantique opérationnelle des réseaux de Pétri temporellement temporisés : Approche Orientée Objet*. Mentouri - Constantine1 University, Algeria, June 2011.
 44. Fatima Bourbia et Sara Boukerzaza, *Application de l'approche de transformation de graphes pour la génération de l'automate de région minimal à partir de DATA**. Mentouri - Constantine1 University, Algeria, June 2011.
 45. Ramla Benhamlaoui et Manel Mâamar, *Mise en œuvre centralisée de la sémantique opérationnelle des réseaux de Pétri temporellement temporisés alpha-réduite : Approche Orientée Objet*. Mentouri - Constantine1 University, Algeria, June 2011.
 46. Amine Rihane, *Approche Fonctionnelle pour la Mise en œuvre distribuée de la sémantique opérationnelle du langage temps-réel D-LOTOS*. Mentouri - Constantine1 University, Algeria, June 2011.
 47. Karima Sedrati et Abba Segueni, *Vérification des systèmes temps réel exprimés en DATA* (Durational Action Timed Automata) par UPPAAL et KRONOS*. Mentouri - Constantine1 University, Algeria, June 2010.
 48. Asma Benmehdi et Seifeddine Belbel, *Transformation d'un micro-ordinateur Linux en un routeur avancé*. Mentouri - Constantine1 University, Algeria, June 2010.
 49. Mohamed Saleh Ouahab et Abderrahim Kaidi, *Utilisation des approches d'optimisation combinatoire pour la vérification des applications concurrentes*. Mentouri - Constantine1 University, Algeria, June 2010.
 50. Seif Elislam Bourouissa et Charaf Eddine Benameur, *Génération distribuée de stems pour les réseaux de Petri*. Mentouri - Constantine1 University, Algeria, June 2010.
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51. Sofia Bekrar et Mouna Bouarioua, ***Application de l'approche de transformation de graphes pour la génération de graphes de refus mixtes à partir de systèmes de transitions étiquetées maximales.*** Mentouri - Constantine1 University, Algeria, June 2009.

Completed Engineer Projects under my Supervision:

52. Ahlem BOUNEB : ***Définition d'une sémantique de maximalité pour les réseaux de Petri récursifs.*** Mentouri - Constantine1 University, Algeria, June 2010.
53. Amina Nouicer, Imene Baiben et Sara Zerizer, ***Implémentation de l'algorithme de détermination des automates temporisés avec durées d'actions,*** Mentouri - Constantine1 University, Algeria, June 2009.
54. Mohamed Sandeli et Khalid Tafer, ***Interprétation des structures d'événements stables par des systèmes de transitions étiquetées maximales,*** Mentouri - Constantine1 University, Algeria, June 2008.
55. Aboud Chetibi et Said Layadi, ***Interprétation des structures d'événements à bundle par des systèmes de transitions étiquetées maximales,*** Mentouri - Constantine1 University, Algeria, June 2008.
56. Ammar Meziadi et Hocine Redjem, ***Définition d'une sémantique de maximalité pour les structures d'événement à flux,*** Mentouri - Constantine1 University, Algeria, June 2008.
57. Merouani Hanene et Zemouri Amine, ***Interprétation des structures d'événements primaires par des systèmes de transitions étiquetées maximales,*** Mentouri - Constantine1 University, Algeria, June 2008.
58. Adel Séraoui et Imad Eddine Rais, ***Définition des réseaux de Petri temporellement temporisés et l'utilisation des DATA* comme modèle sémantique pour ces réseaux,*** Mentouri - Constantine1 University, Algeria, June 2008.
59. Baghdad Lounis et Hamza Guersal, ***Utilisation des DATA's comme modèle sémantique des réseaux de Petri temporisés,*** Mentouri - Constantine1 University, Algeria, June 2008.
60. Messaouda Bouneb et Maria Yahyaoui, ***Etude formelle des protocoles de transport multicast fiables : DyRAM et AMRHy.*** Mentouri - Constantine1 University, Algeria, June 2005.
61. Sara Bensalem, Azzouz Bouamama et Hamza Laib, ***Mise en œuvre du protocole AMRHy sur un réseau local,*** Mentouri - Constantine1 University, Algeria, June 2004.
62. Abdelghani Alidra, ***Conception formelle en D-LOTOS de systèmes temps réel : Application au protocole AMRHy,*** Mentouri - Constantine1 University, Algeria, June 2004.
63. Walid Belkhir &al., ***Conception et implantation des STEMs Temporels,*** Mentouri - Constantine1 University, Algeria, June 2003
64. Mokdad Arous &al., ***Utilisation de la technique formelle temps réel D-LOTOS pour la spécification du flux vidéo MPEG,*** Mentouri - Constantine1 University, Algeria, June 2003
65. Mounir Kechid et Abdelouaheb Kihel, ***Conception et implantation d'une plate-forme pour les calculs distribués,*** Mentouri - Constantine1 University, Algeria, June 2003
66. Meriem Belguidoum, ***Conception et implémentation d'un outil pour la vérification formelle des relations de bisimulation entrelacées,*** Mentouri - Constantine1 University, Algeria, June 2002
67. Nabil Belala &al., ***Développement d'un environnement de vérification formelle basée sur la sémantique de maximalité : Approche logique,*** Mentouri - Constantine1 University, Algeria, June 2002
68. Afifa Ghanajji &al., ***Développement d'un environnement de vérification formelle basée sur la sémantique d'entrelacement : Approche test,*** Mentouri - Constantine1 University, Algeria, June 2002
69. Wassila Labani, ***Conception et implémentation d'un environnement de vérification symbolique basée sur la sémantique de maximalité,*** Mentouri - Constantine1 University, Algeria, June 2002
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70. Ali Bourkaïb & al., *Conception et implémentation d'un environnement de vérification pour Basic LOTOS : Approche d'entrelacement*, Mentouri - Constantine1 University, Algeria, June 2001
71. Adel Benamira & al., *Conception et l'implémentation d'un environnement de vérification pour Basic CCS : Approche d'entrelacement*, Mentouri - Constantine1 University, Algeria, June 2001



Publications

Book Chapters

1. Imed Eddine Chama, Nabil Belala and Djamel-Eddine Saïdouni. "Formal Modeling and Analysis of Business Process Timed Constraints", Formalisms for Reuse and Systems Integration, Advances in Intelligent Systems and Computing, Volume 346, **2015**, pp 149-172. DOI 10.1007/978-3-319-16577-6_7, Print ISBN 978-3-319-16576-9, Online ISBN 978-3-319-16577-6, Series ISSN 2194-5357, Springer International Publishing Switzerland
2. Meriem Bensouya, Mourad Bouzenada, Nousseiba Guidoum and Djamel Eddine Saïdouni, Generalized Graph Strict Strong Coloring Algorithm: Application on graph distribution, Contemporary Advancements in Information Technology Development in Dynamic Environments, **2014**, Pages 181-200, IGI GLOBAL Publisher, DOI: 10.4018/978-1-4666-6252-0.
3. Jean Pierre Courtiat and Djamel Eddine Saïdouni, A Case Study On Protocol Design, LOTOSphere : Software Development with LOTOS, Tommaso Bolognesi, Jeroen van de Lagemaat and Chris Vissers Editors, Chapter 10, Pages 210-217, **1995**, Kluwer Academic Publishers.

Journal Publications

1. KOUAH Sofia, SAÏDOUNI Djamel Eddine & KITOUNI Ilham. Open Fuzzy Synchronized Petri Net: Formal Specification Model for Multi-agent Systems. Special Issue Submission: The Impact of Fuzzy Set and Intuitionistic Fuzzy Approaches in Relation to Organizational Decision Making. International Journal of Intelligent Information Technologies (IJIT). . Volume 12, Issue 1, Article 4. 2016.
 2. Messaouda Bouneb, Djamel Eddine Saidouni and Jean Michel Ilié, A reduced maximality labeled transition system generation for recursive Petri nets, in Formal Aspects of Computing Journal, Vol 27, Issues 128, ISSN: 0934-5043 (Print) 1433-299X (Online) (August **2015**). DOI:10.1007/s00165-015-0341-3
 3. Boukharrou, R., Chaouche, A.-C., El Fallah-Seghrouchni, A., Ilié, J.-M. and Saïdouni, D. E. (**2015**). Dealing with temporal failure in ambient systems: a dynamic revision of plans. In Journal of Ambient Intelligence and Humanized Computing (JAIHC), volume 6, issue 3, pages 325-336. Springer. ISSN: 1868-5137, DOI:10.1007/s12652-015-0266-y.
 4. Bouneb Messaouda, Saïdouni Djamel Eddine: Hierarchical Design Method for Multi-Agent Systems. International Journal of Agent Technologies and Systems (IJATS), 04/**2015**; 7(2):105-134. DOI: 10.4018/IJATS.2015040104
 5. Kenza Bouaroudj, Djamel Eddine Saïdouni & Ilhem Kitouni, "Formal testing theory of stochastic systems under maximality semantics", accepted for publication in "International Journal of Computer Aided Engineering and Technology, IJCAET 7(3): 348-377 (**2015**), DOI:10.1504/IJCAET.2015.071296, www.inderscience.com/jhome.php?jcode=IJCAET"
 6. Mokdad Arous, Djamel Eddine Saidouni, Jean Michel Ilié: An integrated approach for specification and analysis of functional and performance properties of concurrent systems. International Journal of Systems and Service-Oriented Engineering (IJSSOE), Volume 5, Issue 1 (**2015**), DOI: 10.4018/IJSSOE.2015010101
 7. Sofia Kouah, Djamel Eddine Saïdouni: Application of Fuzzy Labeled Transition System to Contract Net Protocol. International Journal of Service Science, Management, Engineering, and Technology, 07/**2015**; Volume 6 Issue 3, pp 27-46; doi:10.4018/ijssmet.2015070103
 8. A.-C. Chaouche, A. El Fallah-Seghrouchni, J.-M. Ilié and D.-E. Saïdouni, A Higher-order Agent Model with Contextual Management for Ambient Systems, In Transactions on Computational Collective Intelligence, vol. 16, pp. 146-169 Springer (**2014**). URL: http://link.springer.com/chapter/10.1007/978-3-662-44871-7_6.
 9. Souad Guellati, Ilhem Kitouni, Riadh Matmat and Djamel-Eddine Saïdouni. True Concurrency Semantics : Towards a Verification of Timed Systems. IGI Global-International Journal of Embedded
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- and Real-Time Communication Systems (IJERTCS). V5 Issue 2 Article 3, IGI Global, <http://www.igi-global.com/journal/international-journal-embedded-real-time>, DOI:10.4018/ijertcs.2014040103
10. Sofia Kouah and Djamel Eddine Saïdouni, Fuzzy Labeled Transition Refinement Tree: Application to Stepwise Designing MultiAgentSystems, International Journal of Agent Technologies and Systems (IJATS), Pages 1-31, Volume 6, Issue 3. IGI Global. <http://www.igi-global.com/journal/international-journal-agent-technologies-systems>
 11. Meriem Bensouyed, Nousseiba Guidoum and Djamel Eddine Saïdouni, An efficient evolutionary algorithm for strict strong graph coloring problem, 5(2), 22-36., <http://www.igi-global.com/article/an-efficient-evolutionary-algorithm-for-strict-strong-graph-coloring-problem/114215>.
 12. Imed Eddine Chama, Nabil Belala, Djamel Eddine Saidouni: Formalizing timed BPEL by D-LOTOS. International Journal of Embedded and Real-Time Communication Systems 04/2014; 5(2):15-35. DOI:10.4018/ijertcs.2014040102
 13. Abdesslem Layeb and Djamel Eddine Saïdouni, A Hybrid Quantum Genetic Algorithm and Local Search based DPLL for Max 3-SAT Problems, Applied Mathematics & Information Sciences An International Journal, Volume 8, No. 1, 77-87 (2014) 77, <http://dx.doi.org/10.12785/amis/080109>.
 14. Sofia Kouah, Djamel Eddine Saïdouni, Jean Michel Ilié, Synchronized Petri Net: A Formal Specification Model for Multi Agent Systems, Journal of Software, Vol 8, No 3 (2013), 587-602, Mars 2013, doi:10.4304/jsw.8.3.587-602. www.academypublisher.com/jsw
 15. Nousseiba Guidoum, Meriem Bensouyad and Djamel Eddine Saïdouni, The Strict Strong Coloring Based Graph Distribution Algorithm..International Journal of Applied Metaheuristic Computing (IJAMC), Volume 4, Number 1, 50-66 (2013). DOI: 10.4018/jamc.2013010104. www.igi-global.com/journal/international-journal-app
 16. M. Arous, K. Bouaroudj, and D. Saïdouni. An environment for modeling and verifying / testing stochastic systems. Journal of Theoretical and Applied Information Technology JATIT, Vol 50, 2013.
 17. Nabil Belala, Djamel Eddine Saïdouni, Radja Boukharrou, Ahmed Chaouki Chaouche, Adel Seraoui, Asma Chachoua, "Time Petri Nets with Action Duration: A True Concurrency Real-Time Model".International Journal of Embedded and Real-Time Communication Systems (IJERTCS), Print ISSN: 1947-3176, eISSN: 1947-3184, IGI Publishing. Volume 4, Issue 3, PP62-83, <http://www.igi-global.com/journal/international-journal-embedded-real-time>, DOI:10.4018/jertcs.2013040104
 18. Mourad Bouzenada, Meriem Bensouyad, Nousseiba Guidoum, Ahmed Reghioia and Djamel Eddine Saïdouni, Generalized Graph Strict Strong Coloring Algorithm, International Journal of Applied Metaheuristic Computing 01/2012; 3(1):24-33. DOI: 10.4018/jamc.2012010103.
 19. Nabil Belala, Djamel Eddine Saïdouni, Messaouda Bouneb, and Jean-Michel Ilié, "Maximality Semantics and Petri Nets", International Journal of Computer Science and Technology (IJCST), 3(3):687-694, Print ISSN: 2229-4333. July - September 2012. <http://www.ijcst.com>
 20. Hiba Hachichi, Ilham Kitouni, Kenza Bouaroudj, Djamel-Eddine Saidouni: A Graphical Tool for Testing Timed Systems based on Meta- Modeling and Graph Grammars. IJCSI International Journal of Computer Science Issues, Vol. 9, Issue 4, No 1, July 2012 ISSN (Online): 1694-0814 www.IJCSI.org
 21. Ilham Kitouni, Hiba Hachichi, Kenza Bouaroudj, Djamel Eddine Saidouni: Durational Actions Timed Automata: Determinization and Expressiveness. International Journal of Applied Information Systems, Volume 4, Number 2 (2012), DOI: 10.5120/ijais12-450609.
 22. Kenza Bouaroudj, Ilham Kitouni, Hiba Hachichi, Djamel-Eddine Saidouni: Extending Refusal Testing by Stochastic Refusals for Testing Non-deterministic Systems. In IJCSI, 9(5), 2012.
 23. Mokdad Arous, Jean Michel Ilié and Djamel Eddine Saïdouni, A Compact Semantic for Characterization of Stochastic Temporal Properties of Concurrent Systems, In IJCSI, 9(5), 2012.
 24. K. Bouaroudj, I. Kitouni, H. Hachichi and D.E. Saidouni : Extending Refusal Testing by Stochastic Refusals for Testing Non-deterministic Systems. In: The International Journal of Computer Science Issues (IJCSI) Volume 9, Issue 5, September 2012.
 25. Adel Benamira and Djamel-Eddine Saidouni, Maximality-based Step Graph for Safety-Petri Nets, International Journal of Computer Science and Telecommunications, Volume 3, Issue 9, September 2012.
 26. I. Kitouni, H. Hachichi, K. Bouaroudj and D.E. Saidouni. Timed Refusals Graph for Non-Deterministic Timed Systems. In: International Journal of Computer Science and Telecommunications (IJCST). Volume 3, Issue 9, September 2012.
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27. I. Kitouni, H. Hachichi, K. Bouaroudj and D.E. Saidouni: Reducing Timed Automata: A New Approach. In: International Journal of Information Sciences and Techniques (IJIST) Vol.2, No.4, July 2012, pp 15-27. Published by NCSIP 2012, Gandhigram Rural Institute, India.
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Research Projects

1. European Project:
 - 1.1. Title : Lotosphere
 - 1.2. Period: 1990 – 1995
 - 1.3. Function : Member
 - 1.4. Affiliation: LAAS-CNRS, Toulouse, France
2. National Project:
 - 2.1. Title : Architectures et systèmes
 - 2.2. Code: B2501/01/02
 - 2.3. Period:2002 – 2005
 - 2.4. Function: Member
 - 2.5. Affiliation: Université Mentouri de Constantine, Algeria
3. National Project:
 - 3.1. Title : Systèmes temps réel multimédias
 - 3.2. Code : B2501/51/06
 - 3.3. Period: 2006 - 2008
 - 3.4. Function: Chef of the project
 - 3.5. Affiliation: Université Mentouri de Constantine, Algeria
4. National Project:
 - 4.1. Title : Vérification distribuée des systèmes critiques
 - 4.2. Code : B*00920080096
 - 4.3. Period: 2009 - 2011
 - 4.4. Function: Chef of the project
 - 4.5. Affiliation: Université Mentouri de Constantine, Algeria
5. National Project:
 - 5.1. Title : Modèles formels pour les systèmes dynamiques
 - 5.2. Code : B*00920120117
 - 5.3. Period: 2013 - 2015
 - 5.4. Function: Chef of the project
 - 5.5. Affiliation: Université Constantine 2, Algérie

Participation In Program Committee Of International Conferences

- *CISC'04 (International conference on complex systems), Jijel, Algeria.*
 - *ACIT'04 (Arabic Conference on Information and Technology), Constantine, Algeria.*
 - *ACIT-2005, Amman, Jordani, December 2006.*
 - *NOTERE'2006, (International conference on new technologies for the distribution) Toulouse, France.*
 - *ACIT-2006, Al yarmuk University, Jordani, Décembre 2006.*
 - *NOTERE'2007, Merrakeche, juin 2007.*
 - *JIG-2007, Constantine, Algeria, octobre 2007.*
 - *ACIT-2007, Syrie, Novembre 2007.*
 - *SEFM 2008, 6th International Conference on Software Engineering and Formal Methods, Cape Town, South Africa. 10–14 November, 2008.*
 - *SEFM 2009, 7th International Conference on Software Engineering and Formal Methods, Hanoi, Vietnam. November 23-27th 2009.*
 - *NOTERE'2009, Monreal, Canada, June 2009.*
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- *ICADEWIT, England 2009.*
- *MISC'2010, Constantine, Algeria.*
- *ICIST'2011, Tebessa, Algeria.*
- *MISC'2012, Constantine, Algeria(Program committee Co-Chair).*
- *ECMS'2013*
- *MISC'2014, Eloued, Algeria(Program committee Co-Chair).*
- *ECMS'2015*
- *NTIC'2015*
- *AICCSA'2015, Marrakech, Morocco (Track Co-Chair).*
- *MISC'2016, Constantine, Algeria (Program committee Co-Chair).*

