

CURRICULUM VITAE

EL TOUATI Yamen

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CURRENT SITUATION

- Associate Professor at Faculty of Computing and Information Technology (Northern Border University - KSA).
- PhD at National School of Computer Science (ENSI) 2014. Topic: "Synthesis of Controllers by extended Time Petri Nets".
- Master Degree in Computer Science obtained from National School of Computer Science (ENSI) 2005.
- Computer Science Engineer. Graduation from National School of Computer Science (ENSI) 2003.

TEACHING EXPERIENCE

Operating Systems, Advanced operating systems, Linux, Security of operating systems, Basics of Cryptography, Ethical Hacking, Computer security, Principle of information security, Cyber security, Digital Logic design, Computer architecture, Microprocessors design, Computer communications networks, Website development, Programming basics, C programming, Java programming, advanced java programming, Android development, J2E Development, 3d Games development with Unity3d, data structures, Algorithms and complexity, Automata theory, Languages and computation, theory of computation, Compilers construction, Introduction to Computing, Object Oriented Analysis and Design...

ACADEMIC ACTIVITIES

- Committee member of FCIT research unit since 2019/2020 up to now
- Head of Faculty website committee since September 2015
- Reviewer for "She Codes" event – Princess Nourah bint Abdulrahman University – October 2022
- Committee member of Higher diploma in Artificial intelligence program (online) description in the academic year 2020/2021
- Committee member of Higher diploma in Cyber security programs description in the academic year 2019/2021
- Supervisor of the exit exam for computer sciences department in since 2019/2020 up to now
- Sub-committee in CS department of ABET accreditation unit for the academic year 2016/2017 and 2021 up to now.
- Involvement in the reform of lesson plans for the licensing program. In particular, I proposed reforming the 3D game programming module using a recent physics engine. In addition, I have proposed the integration of the mobile development for the graduating class program and also JEE programming and PHP5 with frameworks Symphony and Zend
- Participation to the Procurement Committee for the year 2015 as an administrator for the Computer Science Department, where I determine the technical specifications of computers and various media center Equipment at the Institution.
- Participation in the monitoring and evaluation of students' work as a member of the jury in the national contest "Android Camp" that were made in 2014 between groups of students from different Tunisian universities. This competition lasts 24 hours without interruption.
- Participation as a member/Head of Jury to discuss many students graduation projects for obtaining License, Engineering and Professional Master Diplomas.
- Appointment as head of the Computer Science Department at High School for Technology and Business Administration (SUPTECH) the academic year 2014-2015

SCIENTIFIC ACTIVITIES

- Program committee member of the 3d International Conference on Digital Economy Emerging Technologies and Business Innovation (ICDEc 2018). <https://www.aten.tn/ICDEc2018/committees.html>
- Chair in the special session "Service Oriented Computing: Challenges and trends" for the EAI International Conference on Future Intelligent Vehicular Technologies, October 17–19, 2017 Islamabad, Pakistan. <http://future5v.org/2017/show/news>
- Program committee member of the 2nd International Conference on Digital Economy Emerging Technologies and Business Innovation (ICDEc 2017). <http://www.aten.tn/ICDEc2017/committees.html>
- Reviewer for "The 13th International Conference on Software Engineering Research, Management and Applications (SERA 2015)"
- Reviewer for the international journal of "The Open Automation and Control Systems Journal" within the special issue entitled "Production and Logistics Systems Optimization (PLSO)" (2015).
- Program committee member of the IWAISE'14 conference held at ENIT between 10 and 12 November 2014. <http://www.lifl.fr/iwaise14/committees.html>
- Program committee Member of the 2nd International Workshop on Petri Nets for Adaptive Discrete Event Control Systems (ADECS 2015) held in Brussels, Belgium, Monday June 22, 2015. <http://adecs2015.cnam.fr/>
- Reviewer for CCC2014 conference. The url of the conference is <http://ccc.amss.ac.cn/2014/en/>
- Reviewer for CCC2013 conference. The url of the conference is <http://ccc.amss.ac.cn/2013/en/>
- Reviewer for the journal Nonlinear Analysis: Hybrid Systems (NAHS). <http://ees.elsevier.com/nahs/>

PUBLICATIONS

- Timed Bounded Verification of Inclusion Based on Timed Bounded Discretized Language. In International Journal of Foundations of Computer Science, Vol. 32, No. 02, pp. 175-202 (2021).
- Bounded Opacity for Timed Systems. Journal of Information Security and Applications. Volume 61, 2021, 102926 <https://www.sciencedirect.com/science/article/abs/pii/S2214212621001459>
- Deadline Verification for Web Services using Timed Automata. Engineering, Technology & Applied Science Research, Vol. 12, No, 1, December 2021. <https://etasr.com/index.php/ETASR/article/view/4611/2648>
- “Method of Moments versus Advanced Transverse Wave Approach for EM Validation of Complex Microwave and RF Applications”. Journal of Electromagnetic Engineering and Science 2020;20(1):31-38. January 2020.
- Impact of Multi-Sensor Technology for Enhancing Global Security in Closed Environments Using Cloud-Based Resources. *Journal of Sensor and Actuator Networks*. 2019, 8, 4
- Mutual coupling between antennas in a periodic network using the advanced transverse wave approach for wireless applications. International Journal of Advanced and Applied Sciences, 6(1): 99-105.
- A Novel Image Encryption Approach for Cloud Computing Applications. International Journal of Advanced Computer Science and Applications. 12(9), 2018.
- Minimization of linear constraints in constant slope hybrid dynamic systems. IJCSNS International Journal of Computer Science and Network Security. October 30, 2018. Vol 18 No. 10.
- Control of Industrial Systems to Avoid Failures: Application to Electrical System. International Journal of Advanced Computer Science and Applications(IJACSA), Vol. 9 No. 5, 2018.
- Extended Time Petri Net and Hybrid Petri Net : Modeling Multi-Instance Dynamic Hybrid Systems. May 30, 2018. Vol. 18 No. 5 pp. 75-83.
- On the Verification of Opacity in Web Services and their Composition. IEEE Transactions on Services Computing, vol.PP, no.99, pp.1-1. Print ISSN: 1939-1374. doi: 10.1109/TSC.2016.2605090. <http://ieeexplore.ieee.org/document/7558131/>
- Checking Opacity of Vulnerable Critical Systems On-The-Fly”. International Journal of Information Technology and Web Engineering (IJITWE) 2015. <http://www.igi-global.com/article/checking-opacity-of-vulnerable-critical-systems-on-the-fly/135302>
- Réseaux de Petri Temporel Étendu. Journal Européen des systèmes automatisés JESA, 2005, VOL 39/1-3, pp. 207-222. doi:10.3166/jesa.39 <http://jesa.revuesonline.com/article.jsp?articleId=6913>
- Du réseau de Petri temporel étendu vers les automates hybrides linéaires pour l'analyse des systèmes. In « Automatique Avancée et Informatique Appliquée ». Bucarest, Roumanie : éditions de l'Académie Roumaine, Bucarest 2009, pp. 113–119.
- Verification of Timed Opacity Applied to an English Online Auction System. Verification of Timed Opacity Applied to an English Online Auction System. Proceedings of Academicsera 57th International Conference, Jeddah, Kingdom of Saudi Arabia, 14th-15th November, 2019, pp. 55-59. https://www.worldresearchlibrary.org/up_proc/pdf/3298-157416260755-59.pdf
- On the Use of Multi-Sensor Technology for Improving Soldiers' Safety and Saudi-Border-Security. 1st International Symposium on Land and Maritime Border Security and Safety : Challenges and Solutions, 15-19 October 2017.
- Opacity Preserving Abstraction for Web Services and their Composition Using Symbolic Observation Graphs. ICWS 2015 : 22nd IEEE International Conference on Web Service, New York, USA. pp.313-320, June 27 2015-July 2 2015. DOI: 10.1109/ICWS.2015.50
- Time Petri Nets with Memory-Enabled Tokens: An Application to the Modeling of Dynamic Hybrid Systems. 11th international workshop on Discrete Event systems WODES'12. Guadalajara, Mexico. October 3-5, 2012.
- Modélisation et Contrôle par les réseaux de Petri temporels étendus. 9ème Conférence Internationale de Modélisation, Optimisation et SIMulation MOSIM'12. Bordeaux, 6-8 Juin 2012.
- Modeling and control of constant speed Dynamic Hybrid Systems using Extended Time Petri Networks, 24th Chinese Control and Decision Conference (CCDC), 2012, pp.634-641, 23-25 May 2012.
- Du réseau de Petri temporel étendu vers les automates hybrides linéaires pour l'analyse des systèmes. Conférence Internationale Francophone d'Automatique CIFA, Bucarest, Roumanie septembre 2008.
- Modeling Hybrid Systems with Extended Time Petri Networks. International Symposium on computational Intelligence and Intelligent Informatics– ISCIII'2005.
- Réseaux de Petri Temporel Étendu. MSR'05 conférence, France, 2005.

LINGUISTIC

Arabic, French, English.