Zyad Elkhadir

Born on : 01/12/1990
Nationality : Moroccan
Phone number : (+212) 679268989
ResearchGate Profile : https://www.researchgate.net/profile/Zyad_Elkhadir
E-mail : zyad.elkhadir@gmail.com

Doctor of Computer Science

Research Field: Network security, Machine learning, feature extraction, artificial intelligence, classification, clustering.

Studies

2014 - 2018	**Ph.D. Thesis in Computer Science in LASTID Laboratory** at Faculté des sciences of Ibn-Tofail – Kénitra. Thesis title : « Développement de nouvelles variantes d'algorithmes d'extraction des caractéristiques basées sur PCA/LDA pour la détection des intrusions dans un réseau TCP/IP. ».
2011 - 2013	**Master of Software Quality** at Faculté des sciences of Ibn-Tofail – Kénitra.
2010 - 2011	**Bachelor of Computer Science and Mathematics** at Faculté des sciences of Ibn-Tofail – Kénitra.
2008 - 2010	**DEUG** (two-year university degree in Mathematics and Computer Science) at Faculté des sciences of Ibn-Tofail – Kénitra.
2007 - 2008	**Baccalauréat in Physics** at the high school AbdelMalek ASSADI de Kénitra.

Professional Experiences

Sept. 2018 – Nov. 2019	**Contractual Software Engineer, Symfony 4.0** at the Center of continuous formation at Ibn Tofail University of Kenitra.
Mars. – July. 2018	**Java freelancer, Android**

Academic Experiences

2016 – 2017	**Contractual teacher at the Ecole Nationale des sciences Appliquées de Kenitra (ENSA-K) giving the courses :** - Operating Systems and computer Architecture. - **C** language.

- Algorithms and data structures.
- **C**++ language.
- UML.
- JAVA.

Computer skills

- ➤ Programming Languages : C, C++, JAVA, J2EE (Spring MVC, Struts, Hibernate), Android, PHP, JavaScript, HTML5/CSS, Symfony.
- ➤ IDE : Matlab, Eclipse, Android Studio, CodeBlocks, dev-C++, Visual Studio Code.
- ➤ Typesetting system : LaTeX.
- ➤ Databases: MySQL and ORACLE.
- ➤ Modelisation paradigms: : MERISE, UML.

Publications

Chapters in books

[2]   Elkhadir, Z., Chougdali, K., & Benattou, M. (2017, April). A Median Nearest Neighbors LDA for Anomaly Network Detection. In *International Conference on Codes, Cryptology, and Information Security* (pp. 128- 141). Springer, Cham

[1]   Elkhadir, Z., Chougdali, K., & Benattou, M. (2016). Intrusion detection system using PCA and kernel PCA methods. In Proceedings of the Mediterranean Conference on Information & Communication Technologies 2015 (pp. 489-497). Springer, Cham.

Conference Proceedings articles

[5]   Elkhadir, Z., Archi, T., & Benattou, M. Improve R2L Attack Detection using Trimmed PCA. International Conference on Advanced Communication Technologies and Networking (CommNet 19) (To appear).

[4]   Elkhadir, Z., Chougdali, K., & Benattou, M. (2017). An effective network intrusion detection based on truncated mean LDA. In Electrical and Information Technologies (ICEIT), on (pp. 1- 5). IEEE.

[3]   Elkhadir, Z., Chougdali, K., & Benattou, M. (2017). An effective cyber attack detection system based on an improved OMPCA. In Wireless Networks and Mobile Communications (WINCOM), 2017 International Conference on (pp. 1-6). IEEE.

[2]   Elkhadir, Z., Chougdali, K., & Benattou, M. (2017). Combination of R1-PCA and median LDA for anomaly network detection. In Intelligent Systems and Computer Vision (ISCV), (pp. 1-5). IEEE.

[1]   Khalid, C., Zyad, E., & Mohammed, B. (2015, December). Network intrusion detection system using L1-norm PCA. In Information Assurance and Security (IAS), 2015 11th International Conference on (pp. 118-122). IEEE.

International journals articles

[4]   Elkhadir, Z., & Mohammed, B. (2019). A cyber network attack detection based on GM Median Nearest Neighbors LDA. Computers & Security (elsevier).

[3]   Elkhadir, Z., Chougdali, K., & Benattou, M. (2018). Improving Network Intrusion Detection Using Geometric Mean LDA. IJ Network Security, 20(5), 820-826.

[2]   Elkhadir, Z., Chougdali, K., & Benattou, M. (2016). Network Intrusion Detection System Using PCA by Lp-Norm Maximization Based on Conjugate Gradient. International Review on Computers and Software (IRECOS), 11(1), 64-71.

[1]   Elkhadir, Z., Chougdali, K., & Benattou, M. (2016). Intrusion Detection System Using PCA and Kernel PCA Methods. IAENG International Journal of Computer Science, 43(1), pp72-79.

National days and worshops articles

[3]   Anomaly based IDS using null space LDA at the **third edition of the national day on engineering, Networks and Telecommunications (NDENT'15)** held in Kenitra, Morocco on 17 December, 2015.

[2]   Anomaly network-based IDS using R1- LDA at the **fourth International Workshop on RFID and Adaptive Wireless Sensor Networks (RAWSN'16)** held in Marrakech, Morocco on 17 May, 2016.

[1]   Improving network intrusion detection using fuzzy LDA at the **international Workshop on Computing Sciences (WCOS'15)** held in Kenitra, Morocco on 21-22 December, 2016.

Forthcoming articles

[1]   A truncated mean lp-LDA approach for intrusion detection system. International Journal of Information and Computer Security *(InderScience publisher). Date of publication : 2020*

Foreign languages

Arab – English- French

References

Pr. Khalil Ibrahimi
Laboratoire de Modélisation de l'Information (MISC).
Faculté des sciences de Kenitra-Maroc.
Email : khalil.ibrahimi@gmail.com

Pr. Mohamed Benattou
Laboratoire des Systèmes de télécommunications
et ingénierie de la décision.
Faculté des sciences de Kenitra-Maroc.
Email : mbenattou@yahoo.fr
Phone : (+212) 679268989

Pr. Mohamed Bouhorma
Laboratoire des systèmes et
télécommunication (LIST).
Faculté des sciences et techniques de
Tanger-Maroc.
Email : bouhorma@gmail.com