Dr Sara Tedmori,

Assistant Professor of Computer Science

Department of Computing Sciences, King Hussein School for Information Technology
Princess Sumaya University for Technology, Amman, Jordan

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ACADEMIC QUALIFICATIONS

- EngDoc, Engineering Doctorate in Computer Science, Centre of Innovative and Collaborative Engineering, Loughborough University, July 2008
- PGCert, Post Graduate certificate in Innovation and Management with Distinction– Loughborough University, December 2006
- MSc. Multimedia and Internet computing- Loughborough University, 2003
- BSc. Computer science- American University of Beirut, Lebanon, July 2001

CAREER SUMMARY

- **Princess Sumaya University for Technology,** September 2022 – to date
  Position: Chair of Computer Graphics and Animation Department
- **Princess Sumaya University for Technology,** March 2017 – to date
  Position: Associate Professor of Computer Science
- **Princess Sumaya University for Technology,** September 2008- March 2017
  Position: Assistant Professor of Computer Science
- **Loughborough University,** October 2004- May 2008
  Position: Part time Teaching Assistant

TEACHING

Taught/Teaching the following academic courses

- Database Systems for Management Information Systems
- System Analysis and Design
- Internet Programming
- Visual Programming for Management Information Systems
- Website Programming
- Webpage Design and Implementation
- Webpage Design and Implantation Lab
- Internet Programming and Application
- Introduction to Computer Science
- Advanced Topics in Internet Programming
- Natural Language Processing (Master Level)
- Research Seminar (Master Level)

PUBLICATIONS

- Dorgham, O. Ryalat, M. **Tedmori, S**., Al-Rahamneh, Z., Al-Najdawi, N., Mirjalili, S. (2022) "Harris Hawks Optimization for Covid-19 Diagnosis Based on Multi-threshold Image Segmentation" Neural Computing and Applications, 1433-3058.

- Alhijawi,B., Obeid, N., Awajan, A., **Tedmori, S**. (2022), "New hybrid semantic-based collaborative filtering recommender systems", *International Journal of Information Technology*, pp. 1-7.

- Al-Dabet, S**., Tedmori, S**., Al-Smadi, M (2021), "Enhancing Arabic aspect-based sentiment analysis using deep learning models", Computer Speech & Language, Vol. 69, pp. 101224.

- Biltawi, M., **Tedmori, S.,** Awajan, A., (2021), "Arabic Question Answering Systems: Gap Analysis", *IEEE Access*, Vol 9, pp. 63876-63904

- Biltawi, M., Awajan, A., **Tedmori, S.,** (2020), "Arabic reading comprehension benchmarks created semiautomatically", Proceedings of the 21st International Arab Conference on Information Technology (ACIT), pp. 1-6

- Istaiteh, O., Al-Omoush, R. **Tedmori, S.,** (2020), "Racist and sexist hate speech detection: Literature review", Proceedings of the 2020 International Conference on Intelligent Data Science Technologies and and Applications (IDSTA), pp. 95-99

- Biltawi, M., Awajan, A., **Tedmori, S.,** (2020), "Towards Building an Open-Domain Corpus for Arabic Reading Comprehension", Proceedings of the 35th International Business Information Management Association (IBIMA) Conference: 1-2 April 2020, Seville, Spain

- Al-Dabet, S., **Tedmori, S**., and Al-Smadi, M (2020), "Extracting Opinion Targets Using Attention-Based Neural Model", SN Computer Science. 1, 242. https://doi.org/10.1007/s42979-020-00270-4

- Alweshah, M., Al-Sendah, M., Dorgham, OM., Al-Momani, A,. and **Tedmori, S.** (2020), "Improved water cycle algorithm with probabilistic neural network to solve classification problems", Cluster Computing, pp. 1-16.

- Kilani, H., Nasereddin, M., Hadi, A., and **Tedmori, S.** (2019), "Data Exfiltration Techniques and Data Loss Prevention System", International Arab Conference on Information Technology (ACIT), UAE.

- Al-Dabet, S., **Tedmori, S.,** (2019), "Sentiment Analysis for Arabic Language using Attention-Based Simple Recurrent Unit", 2nd International Conference on new Trends in Computing Sciences, Amman, Jordan

- Biltawi, M., Awajan, A., **Tedmori, S.,** (2019), "Evaluation of Question Classification", 2nd International Conference on new Trends in Computing Sciences, Amman, Jordan

- Hambouz, A., Shaheen, Y., Manna, A., Al Fayoumi, A., **Tedmori, S.** (2019), "Achieving Data Integrity and Confidentiality Using Steganography and Hashing Techniques", 2nd International Conference on new Trends in Computing Sciences, Amman, Jordan

- **Tedmori, S.,** Awajan, A. (2019) "Sentiment Analysis Main Tasks and Applications: A Survey.", Journal of Information Processing Systems

- Yasen, M., **Tedmori, S**. (2019) "Movies Reviews Sentiment Analysis and Classification", 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), Amman, Jordan.

- Armooti, B., **Tedmori, S.** (2019) "Automated Keyword Extraction using Support Vector Machine from Arabic News Documents", 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), Amman, Jordan.

- Hammoudeh, A., **Tedmori, S**. (2019) "Emotions and the Structure of the Language", 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), Amman, Jordan.

- **Tedmori, S.** (2018) "Privacy Preserving Method for Knowledge Discovered by Data Mining", International Journal of Information and Communication Technology, Vol 14. No. 1, pp. 31-45.

- Biltawi, M., Etaiwi, W,, Tedmori, S., and Shaout, A. (2018) "Fuzzy Based Sentiment Classification in the Arabic Language", Proceedings of the Intelligent Systems Conference, London, UK.

- Alhijawi, B., Obeid, N., Awajan, A., **Tedmori, S.** (2018) "Improving collaborative filtering recommender systems using semantic information", 9th International Conference on Information and Communication Systems (ICICS), pp 127-132

- Qasaimeh, M., Al-Qassas, RS., **Tedmori, S.** (2018) "Software randomness analysis and evaluation of lightweight ciphers: the prospective for IoT security", Multimedia Tools and Applications, pp 1-35.

- Alzubi, O., Alzubi, J., **Tedmori, S.,** Rashaideh, H., and Almomani, O., (2018) "Consensus-Based Combining Method for Classifier Ensembles", International Arab Journal of Information Technology, Vol 15. No. 1, pp. 76-86.

- Biltawi, M., Awajan, A., and **Tedmori, S.** (2017) "Towards Building a Frame-Based Ontology for the Arabic Language", The 18th International Arab Conference on Information Technology (ACIT'2017). Yassmine Hammamet, Tunisia. IEEE.

- Tomaszewski, B., Martin, J.-L., Omondi, I., Al-Najdawi, N., **Tedmori, S.** & Hamad, Y. Using Geographic Information Systems (GIS) in Za'atari Refugee Camp, Jordan for Refugee Community Information Management and Mobilization: The RefuGIS Project, (2017), 2017 IEEE Global Humanitarian Technology Conference (GHTC) San Jose, California, USA. 10 pages.

- Biltawi, M., Al-Naymat, G., **Tedmori, S.** (2017) Arabic Sentiment Classification: A Hybrid Approach, International Conference on New Trends in Computing Sciences, Amman, Jordan, pp. 104-108. IEEE.

- Omar, E., Khdour, T., **Tedmori, S.** (2017) Click Based Animation CAPTCHA, Wseas Transcations on computers, Vol. 16, pp. 345-354

- Biltawi, M., Awajan, A., **Tedmori, S.** and Al-Kouz, A. (2017) A.,Exploiting Multilingual Wikipedia to Improve Arabic Named Entity Resources, International Arab Journal of Information Technology, Vol.14, No. 4A, pp. 598-607.

- Alweshah, M., Hammouri, A.I., **Tedmori, S.,** (2017) "Biogeography-Based Optimization for data Classification Problems", International Journal of Data Mining Modelling and Management, Vol. 9, No. 2 .

- Alsaadi, M., Qasaimeh, M., Tedmori, S., and Almakadmeh, K. (2017) "HIPAA Security and Privacy Rules Auditing in Extreme Programming Environments". International Journal of Information Systems in the Service Sector (IJISSS), Vol 9. No. 1, pp 1-21.

- **Tedmori, S.,** Al-Lahaseh, R. (2016) "Towards a Selfie Social Network with Automatically Generated Sentiment-Bearing Hashtags" in Proceedings of the 7th International Conference of Computer Science & Information Technology, Amman.

- Bilto, M., Etaiwi, W., **Tedmori, S.,** Hudaib, A. and Awajan, A. (2016) "SENTIMENT CLASSIFICATION TECHNIQUES FOR ARABIC LANGUAGE: A SURVEY", The 7th International Conference on Information and Communication Systems, Amman.

- Hattab, E., **Tedmori, S**., Tahhan, A. (2015). "Boosting Collaborative Filtering by Trust", Eighth International Conference on Developments in e-Systems Engineering (DeSE2015), December 2015

- Najdawi, N., Biltawi, M., **Tedmori, S**. (2015), "Mammogram image visual enhancement, mass segmentation and classification", Applied Soft Computing 35, pp 175-185

- Hamdan, S., Al-Qassas, R. S. and **Tedmori, S**. (2015), "Comparative Study on Sybil Attack Detection Schemes", International Journal of Computers & Technology, Vol 14. No. 7, pp 5869-5876.

- Zeglat, D., **Tedmori, S.** (2014) Assessing the Importance of E-Service Quality Dimensions and Attributes: Perspective of Facebook's Users, International Business Research., Vol 7. No. 7.

- Muhareb, H., **Tedmori, S.**, Hasan, K. (2014), "Automatic Expert Diagnostic System for CRC Detection", Ubiquitous Computing and Communication Journal, Vol 9, No 3, pp 1468-1471

- **Tedmori, S,** Najdawi, N. (2014), "Image Cryptographic Algorithm Based on the Haar Wavelet Transform", Information Sciences Journal, vol 269, pp 21–34

- **Tedmori, S.**, "Combining Stochastic Filters with Fast Search Motion Estimation Algorithms: Performance Analysis", Accepted on 31st January 2014 , the International Conference on Multimedia Computing and Systems, April 14-16, 2014, Marrakesh, Morocco.

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- **Tedmori, S,** Najdawi, N., (2012) "Lossless Image Cryptography Algorithm based on Discrete Cosine Transform", *International Arab Journal of Information Technology*, Vol 9, No 5, pp 471-478.

- Jackson, T., **Tedmori, S.,** Hinde, C., and Bani-Hani, A. (2012). "The Boundaries of Natural Language Processing Techniques in Extracting Knowledge from Email**",** *Journal of Emerging Technologies in Web Intelligence,* Vol 4, No 2 (2012), 119-127.

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- **Tedmori, S.**, Lichtenstein, S. and Jackson, T.W. (2007), "Expertise Location Using Keyphrases in Electronic Mail: Socio-ethical Challenges", *Proceedings of the Australian Conference for Knowledge Management & Intelligent Decision Support*, Melbourne, Australia.

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