HANAN ALI HASSAN ISMAEL

ASSOCIATE PROFESSOR

PERSONAL INFORMATION	Full Name: Affiliations: Address: Mobile No.: E-mail: Important links:	Hanan Ali Hassan Ismael Associate Professor, Informatics Research Institute 21 Mahmoud El-Deeb, Borg Omaraa Zezinia 01224535018 hali@srtacity.sci.eg, hananahassan@gmail.com
EDUCATION	**PhD** , Computer Science, **April 2004**, Computer and Systems Engineering Department, Faculty of Engineering, University of Alexandria, Egypt. **M.Sc.** Computer Science, **December 1998**, Computer and Systems Engineering Department, Faculty of Engineering, University of Alexandria, Egypt. **Bachelor's of Science**, Computer Science, **June 1994**, Faculty of Engineering, University of Alexandria, Alexandria, Egypt.	
ACTIVITIES	**Scientific Activities** **ACADEMIC TEACHING COURSES** SEP. 2008 – Jan. 2009: "Virtual Reality technology", "Modeling & Simulation ", "Introduction to Computer ", at Arab academy for Science, Technology,& Maritime Transport, Faculty of Engineering Feb. 2009 – May 2009: "Structured Programming using VB", "Computer Graphics", at Arab academy for Science, Technology, Maritime Transport, Faculty of Engineering. Feb. 2009 – May 2009: "Data structure using C++", at Pharos University.	

	Sep. 2012 – Jan. 2013: "Systems Programming II", SSP, Faculty of Engineering, University of Alexandria. Member of "Center of Excellence cloud & HPC Data Center ", STDF project (from 2011 till 2013) Member of ERANET project (from 2015 till 2017) Co-Pi of "Jesor " ASRT Project (from Oct. 2019 till 2021) PI of "A GIS based prediction model for COVID-19 propagation in Egypt", short listed STDF project (Apr. 2020) Internal Supervisor of 3 MSc. Research assistance, (2 finished , 1 under review) External Supervisor of 1 MSc. Research Assistance (finished) Internal Supervisor of 2 PhD Ass. Researchers (in progress)
	Administrative Activities Vice dean of Informatics Research Institute (Sep. 2018 till now) Head of Computer Networks & Distributed Systems Dept. (2015 till now) Supervisor of Data Center's cloud computing & HPC facilities Supervisor of SRTA-City Central Labs management system Member of post graduate affairs committee of IRI (Activity Title, Description & Date)
	Extra-curriculum Activities Coordinator & Supervisor of Winter School on Cloud Computing & HPC (2017, 2019) e.g. (Leadership, Community services & Volunteer work)
GRANTS & AWARDS	List your Grants here… (start with the most recent) (Grant's Name – Date – Location)
	Awards List your Awards here… (start with the most recent)

	(Award's Name – Date – Location)
LIST OF PUBLICATIONS	1) Shaheera Rashwan, Nicolas Dobigeon, Walaa M. Sheta, and Hassan A. Hassan, 2019. Non-linear unmixing of hyperspectral images using multiple-kernel self-organising maps. *IET Image Processing*, *13*(12), pp.2190-2195. 2) Hassan A. Hassan, Ghada M. Fathy, Zeinab Fayez, and Walaa M. Sheta, 2019. Exploring the parallel capabilities of GPU: Berlekamp-Massey algorithm case study. *Cluster Computing, 12*, pp.1-18. 3) Ghada M. Fathy, Hassan A. Hassan, Shaheera Rashwan and Walaa M. Sheta, 2019. Parallel implementation of multiple kernel self-organizing maps for spectral unmixing. *Journal of Real-Time Image Processing*, pp.1-18 4) Maged, Abdelaty and Hanan, Hassan and Walaa, Sheta and Nayera, Sadek," RIMCA: A RESTful Framework for Intensive Mobile Computing Applications", International Journal of Advancements in Computer Technology (IJACT), accepted, 2019 5) Hanan Hassan, Mona Kashkoush, Mohamed Azab, Walaa Sheta, "Impact of using multi-levels of parallelism on HPC applications performance hosted on Azure cloud computing", International Journal of High Performance Computing and Networking, Vol. 13, No. 3, 2019. 6) A. I. Maiyza, H. A. Hassan, W. M. Sheta, N. M. Sadek and M. A. Mokhtar, "End-user's SLA-aware consolidation in cloud data centers," *IEEE International Symposium on Signal Processing and Information Technology (ISSPIT)*, Bilbao, Spain, 2017, pp. 196-204. 7) H. A. Hassan, A. I. Maiyza and W. M. Sheta, "Impact of Process allocation strategy in High Performance cloud computing on Azure Platform," journal of Scalable Computing: Practice and Experience", vol. 18 , issue 2 , pages 161-167 , 2017. 8) Hanan Hassan, Mona Kashkoush, Mohamed Azab, Walaa Sheta, "Impact of using multi-levels of parallelism on HPC applications performance hosted on Azure cloud computing", International Journal of High Performance Computing and Networking, Vol. 13, No. 3, 2019.. 9) Hanan A. Hassan, Shimaa A. Mohamed, Walaa M. Sheta "Scalability and Communication Performance of HPC on Azure Cloud," Egyptian Informatics Journal, Volume 17, Issue 2, 2016, Pages 175-182, 10) H.Ali, Z.Fayez, G.M.Fathy, W.Sheta, "Evaluation of CUDA Memory Fence Performance ;Berlekamp-Massey Case Study",

the 15th. IEEE International Symposium on Signal Processing and Information Technology, IEEE ISSPIT, Dec. 7-10 2015, Abu Ahabi, UAE.

11) Hanan.Ali, Ming.Ouyang, Amira.Soliman, Walaa.Sheta," Parallelizing the Berlekamp-Massey Algorithm",International Journal of Computer Science and Information Security, Vol. 13 No. 11, 2015.

12) Shaheera Rashwan, Hanan A. Hassan, Noha Shawky, "An Enhanced Wavelet Expectation-Maximization algorithm for hyperspectral image segmentation", International journal of imaging and robotics ISSN 2231-525, Vol. 15, No. 3,pp. 150-163, 2015.

13) Dina A. Hafiz, Bayumy A. B. Youssef, Walaa M. Sheta, and Hanan Ali Hassan, " Interest Point Detection in 3D Point Cloud Data Using 3D Sobel-Harris Operator" , International Journal of Pattern Recognition and Artificial Intelligence, Vol. 29, No. 07, 155014 (24 pages), November 2015.

14) GM Fathy, HA Hassan, WM Sheta, R Bahgat, "Efficient Framework for Mobile Walkthrough Application", Pervasive and Mobile Computing, Vol. 18, Pages 40–54, April 2015

15) Heba Abdelaty, Hanan A. Hassan, and Walaa M. Sheta, "An Interactive City Framework: Mobile Cloud Computing Approach", IEEE Symposium on Signal Processing and Information Technology (ISSPIT), Bilbao, Spain, 14-17 Dec. 2011.

16) Ghada Fathy, Hanan A. Hassan, Walaa M. Sheta and Rehab Gamal, "Dynamic Transmission of 3D mesh in Wireless Walkthrough Applications", IEEE Symposium on Signal Processing and Information Technology (ISSPIT), Bilbao, Spain, 14-17 Dec. 2011

17) Olfat I. EL-Mahi Hanan A. Hassan, Salwa Nassar and Walaa M. Sheta, "Improvement of Distributed Virtual Environment (DVE) performance", *International Journal of Computer Science and Information Security (IJCSIS),Vol. 9, No. 3, 2011.*

18) Hanan A. Hassan, Soheir A. Fouad, and Mohamed S. Abougabal and Walaa M. Sheta, "Statistical Source Modeling of Walkthrough Navigators", International Journal on Computers and Their Applications *(IJCT)*, *Vol. 15, No. 3, Sep. 2008.*

19) Hanan A. Hassan, "A Novel Load Balancing Model for Distributed Virtual Environments", PhD Thesis, Computer and Systems Engineering Department, Faculty of Engineering, Alexandria,Egypt, 2008.
