

Mahmoud Sami Salam



CONTACT

Phone:

+201148096547

Email:

mahmoud.salam@nriag.sci.eg

Mahmoud.salam@nub.edu.eg

PROFESSIONAL SUMMARY

Associate Professor, Seismic Network supervisor with 20+ years experience in Seismic Networks operation and Seismic data center Management. Works in the major two seismic networks in the Middle East (Egyptian National Seismic Network, Saudi National Seismic Network). Participate in all kinds of activities done in the Seismic network (Research activity, Operation, Maintenance, Expansion, Data handling, and Database Administration)

WORK EXPERIENCE

02/2020 - Present

Associate Professor, communication and computer Engineering Department ,Faculty of engineering, Nahda University in Beni Suf (NUB)

09/2018 - Present

Associate Research Professor , National Research Institute for Astronomy and Geophysics (NRIAG)

Responsibilities:

- Responsible of the technical operation and maintenance of the Egyptian National seismic Network

09/2012 – 09/2018

Technical advisor, Saudi geological survey (SGS), National center of Earthquakes and Volcanic

Responsibilities:

- Technical operation, maintenance, expansion of the SNSN.
- Staff training.
- Data Management.
- Participate in most of the studies and projects done by National center of Earthquakes and Volcanic.

05/2003 -09/2012

Research Assistance, Researcher, National Research Institute for Astronomy and Geophysics (NRIAG)

Responsibilities:

- Working as a team member that responsible of the Egyptian National seismic Network installation, operation and maintenance
- Participate in most of the studies and projects done by Egyptian National seismic Network Lab

EDUCATION

2007 - 2011

PhD, School of Information Science and Engineering, Central South University, China, computer engineering.
PhD Thesis title "Adaptive Distributed Data Stream Management System"

2004 - 2007

Master degree, Faculty of Electronic Engineering, Menofia University, Egypt, computer engineering
Master Thesis title "Data Stream Management System for Sensor Networks"

1996 - 2001

B.Sc., Faculty of engineering, Tanta University, Egypt,
Computer & Automatic control(electrical engineering)

ADDITIONAL SKILLS

Microsoft Office package: Microsoft Word, Excel, Access
Database operation: Microsoft Office Access, Oracle 8i,MySQL
Programming: Python, Matlab, Java, C, Visual Basic, Fortran, Perl, Linux Shell.
Computer networking: Device installation, configuration and planning, Data Communications(Lucent Certificated)
Engineering Skills: Systems simulation program, Simulink, OMNeT++ ,Data acquisition application and programming, Logic circuit design and implementation, Printed board design and implementation, RF and Satellite data Communication Systems

PUBLICATIONS

- M. S. Abdalzaher, M. S. Soliman and S. M. El-Hady, "Seismic Intensity Estimation for Earthquake Early Warning Using Optimized Machine Learning Model," in IEEE Transactions on Geoscience and Remote Sensing, vol. 61, pp. 1-11, 2023, Art no. 5914211, doi: 10.1109/TGRS.2023.3296520.
- Probability of Magnitude Detection for the Greater Cairo Seismological Network, Egypt.M Hasabo, M Soliman, HE Abdel Hafiez, AM Thabet - Delta Journal of Science, 2023
- O. M. Saad, M. S. Soliman, Y. Chen, A. A. Amin and H. E. Abdelhafiez, "Discriminating Earthquakes From Quarry Blasts Using Capsule Neural Network," in IEEE Geoscience and Remote Sensing Letters, vol. 19, pp. 1-5, 2022
- H. S. Elsayed, O. M. Saad, M. S. Soliman, Y. Chen and H. A. Youness, "Attention-Based Fully Convolutional DenseNet for Earthquake Detection," in IEEE

Transactions on Geoscience and Remote Sensing, vol. 60, pp. 1-10, 2022

- Hussein Abdullah, Tharwat h. Abd-Elhafeez, Sherif M. El-Hady, Mahmoud Sami Soliman, Mohamed Ezzelarab, Development a local magnitude scale for South Egypt, Journal of African Earth Sciences, Volume 188, 2022,
- O. M. Saad et al., "Machine Learning for Fast and Reliable Source-Location Estimation in Earthquake Early Warning," in IEEE Geoscience and Remote Sensing Letters, vol. 19
- M. S. Abdalzaher, M. S. Soliman, S. M. El-Hady, A. Benslimane and M. Elwekeil, "A Deep Learning Model for Earthquake Parameters Observation in IoT System-Based Earthquake Early Warning," in IEEE Internet of Things Journal, vol. 9, no. 11, pp. 8412-8424
- Abdelfattah, A.K., Al-amri, A., Sami Soliman, M. et al. An analysis of a moderate earthquake, eastern flank of the Red Sea, Saudi Arabia. Earth Planets Space 72, 34 (2020).
- El-Hussain, Issa & Ezz Elarab, Mohamed & Soliman, Mahmoud & Deif, Ahmed & Mohamed, Adel. (2020). Probability of magnitude detection for the seismological network of Oman. Arabian Journal of Geosciences. 13. 924. 10.1007/s12517-020-05923-5.
- M. Saad, Omar, Hafez, Ali , Soliman, M.. (2020). Deep Learning Approach for Earthquake Parameters Classification in Earthquake Early Warning System. IEEE Geoscience and Remote Sensing Letters. PP. 1-5. 10.1109/LGRS.2020.2998580.
- Abdelfattah, A.K., Al-amri, A., Sami Soliman, M. et al. An analysis of a moderate earthquake, eastern flank of the Red Sea, Saudi Arabia. Earth Planets Space 72, 34 (2020). <https://doi.org/10.1186/s40623-020-01159-5>
- A. Badawy, M. Gamal, W. Farid and M. Sami Soliman, Decontamination of earthquake catalog from quarry blast events in northern Egypt, Journal of Seismology (JOSE), <https://doi.org/10.1007/s10950-019-09873-8> (2019)
- W. Alraddadi ,Evaluation of Saudi National Seismic Network (SNSN) Detectability, Arabian Journal of Geosciences(2019)12:330, <https://doi.org/10.1007/s12517-019-4423-z>
- Yassein.M.H,Elkhadrgy.A.A,AbuoelelaA.Mohamed, Hussein.H.M1And Mahmoud Sami Soliman, Optimizing a Ground Motion Prediction Equation for Low to Moderate Magnitude Velocity Records in Egypt, OSR Journal of Applied Geology and Geophysics (IOSR-JAGG),e-ISSN: 2321–0990, p-ISSN: 2321–0982. Volume 6, Issue 5 Ver. II (Sep. – Oct. 2018), PP 59-73
- Sadek, Rowayda A.; Soliman, M. Sami; Elsayed, Hagar S, Effective Anomaly Intrusion Detection System based on Neural Network with Indicator Variable and Rough set Reduction International Journal of Computer Science Issues (IJCSI); Nov 2013, Vol. 10 Issue 6, p227.

- Abd el-aal, Abd el-aziz Khairy; Soliman, Mahmoud Sami, "New Seismic Noise Models Obtained Using Very Broadband Stations", Nov 2013, Pure and Applied Geophysics, Volume 170, Issue 11, pp.1849-1857
- M. Sami Soliman, Guan-zheng Tan, "Continuous Query Scheduler based on Operators Clustering", Journal of central south university of technology (indexed by SCI and EI Compendex) Vol.18, No.3
- M. Sami Soliman, Guan-zheng Tan, "Conditional Sensor Deployment Using Evolutionary Algorithms", JCIT: Journal of Convergence Information Technology (EI Compendex indexed, EI Accession number: 20102112952175), 2010, 5(2):146-154.
- Ali K. Abdel-Fattaha, , M. Morsya, Sh. El-Hadya, K.Y. Kimb, , and M. Sami Soliman, Intrinsic and scattering attenuation in the crust of the Abu Dabbab area in the eastern desert of Egypt, Physics of the Earth and Planetary Interiors Volume 168, Issues 1-2, May 2008, Pages 103-11

REFERENCES

References available on request