



### **Nisrine El-Turky**

Senior Lab Instructor

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## **Biography**

Nisrine G. El-Turky earned her Master's degree in Computer Science and her Bachelor of Engineering in Computer and Communication Engineering from Notre Dame University- Louaize. Nisrine developed an algorithm to improve the control message delivery in 802.11P. She wrote several TCL scripts and simulated the network for different scenarios. As part of her dedication to research, she has been involved in many projects concerned with the design, analysis and performance evaluation of Wireless and Mobile Protocols and Architectures (e.g. Cognitive Radio Networks, Vehicular Ad Hoc Networks, Wireless Mesh Networks), the Multi-Hop Communication in Wireless Systems, the performance analysis of Multicast Routing in Wireless Networks, the Protocol for Unified Multicasting through Announcement (PUMA), and the design and experimentation of Intelligent Transportation Systems services supported by Wireless Vehicular Ad Hoc Networks. Nisrine was trained and worked as a satellite engineer; she has a wide knowledge on Emulation of Commutation of On-Board Satellite Systems, Satellite Data Transmission, and putting Satellite Earth Stations into operation. She has worked on many international projects for a Teleport laid in Vilnius (Lithuania). In the academic field, Eng. El-Turky is a Senior Laboratory Instructor at Notre Dame University, her teaching duties over the past years include lecturing laboratory sessions and experiments in the area of Logic Design, FPGAs, Electronic Circuits, Discrete Signal Processing, Microcontroller and Microprocessor System Design, Analog and Digital Communications. Nisrine attended a "Flowcode" training at Matrix TSL headquarters in the United Kingdom. She is highly interested in Internet of Things, Machine learning, and electronics, she perceives engineering as the most innovative medium to interact with society and create a better future. She is an expert in IoT and AI and an advisor and a mentor for Tech Startups. She is also the deputy chair of the AI Committee at the Order of Engineers & Architects- Beirut and the president of the NDU Alumni- Engineering Chapter.

## **Peer-reviewed Journals**

- Haddad, S., Sayah, J., Kallab, C., Chakroun, M., El Turkey, N., (2022), Energy based routing and clustering energy based routing protocols as remediation to the Directional source aware routing protocol in wireless sensor networks, Wireless Sensor Networks, Vol.14 , no 2.
- Kallab, C. , Haddad, S. , El-Zakhem, I. , Sayah, J. , Chakroun, M. , El Turkey, N. , Charafeddine, J. , Hamdan, H. and Shakir, W. (2022) Generic Tabu Search. Journal of Software Engineering and Applications, 15, 262-273. doi: 10.4236/jsea.2022.157016.

## Exhibitions

### International

- Cisco Global Problem Solver Challenge Competition, Semi-Finalist, California, USA, 2021.
- ViVaTech, Paris, France, 2021.
- Sprint (INCO) Competition, Finalist, Paris, France, 2020.
- Global Social Venture Competition, Finalist, U.C. Berkeley, USA, 2019.
- Global Entrepreneurship Summit, Finalist, Hague, Netherlands, 2019.
- Best Lebanese Solution in the Next Society, Finalist, Paris, France, 2019.
- Investor Academy, Barcelona, Spain, 2019.
- Vivatech, Paris, France, 2019.
- European Angel Investments summit, finalist, Brussels, Belgium, 2019.
- Women in tech, Vilnius, Lithuania, 2019.

### Regional

- MIT ARAB startup Competition, Finalist, 2021.
- Women Entrepreneurs by Potential, Top 3, Dubai, UAE, 2019.
- Global Social Venture Competition, First Place, 2019.

### Local

- Berytech-RMF Program, 1<sup>st</sup> Place AgriApp Hackathon, 2020.
- Touch Innivation Program, Golden Pass, 2019.
- Future Agro Challenge, Finalist, 2019.
- SeedStars, Finalist, 2019.
- Agrytech Hackathon, 1<sup>st</sup> Place, 2018.
- SWAg Startup Weekend by google for Entrepreneurs, 1<sup>st</sup> Place, 2018.
- Alfa and Ericsson IoT Award, 1<sup>st</sup> Place, 2018.
- Lebanese Industrial Research Association, Fund, 2018.
- Lebanese Industrial Research Association 14<sup>th</sup>, Second Place, 2018.
- Lebanese Industrial Research Association 13<sup>th</sup>, Second Place, 2017.
- Lebanese Industrial Research Association 13<sup>th</sup>, Berytech Incubation Award, 2017.
- Best Club Advisor, NDU, 2011.

## Esteemed indicators

- President, NDU Alumni Association – Engineering Chapter, 2022- present.
- Deputy Chair, Order of Engineers and Architects of Beirut-AI Committee, 2021-present.
- Professional Speaker, World Leader Summit, 2020-present.
- Founder and Advisor, Electroholic Club-NDU, 2009-2011.
- Member, Order of Engineers and Architects of Beirut, 2004-present.
- Member, IEEE, 2000.

## Presentations & Seminars

- Panelist, Women turning Crisis into opportunities, Beirut, 2022.
- Panelist, Second Digital Mashreq Forum, WorldBank, Virtual, 2022.
- Panelist, TNS now and live, Femise Association, Marseille, France, 2022.
- Panelist, Women in Tech, IEEE NDU Section, Beirut, Lebanon, 2022.
- Moderator, Artificial intelligence in Lebanon, OEA, Beirut, 2022.
- Panelist, Impact Stories: Meet Womenpreneur-Initiative, GAWBLconnect, Berlin, Germany, 2021.
- Panelist, Lebanese Women in Tech, Cedars Tech, Paris, France, 2021.
- Panelist, Surviving and Thriving Lebanese Companies, LebNet, San Francisco, USA, 2021.

- Panelist, IoT and AI, Arab IoT and AI Challenge, Beirut, Lebanon, 2021.
- Panelist, Women in Excellence, IEEE Lebanon Section, Beirut, Lebanon, 2021.
- Panelist, IoT and Applied AI Panelist, ICT Round Table- Economic Revival Plan, Beirut, Lebanon, 2020.
- Panelist, International Conference on Information and Technology, LEB TECH, Beirut, Lebanon, 2020.
- Panelist, AI and Cybersecurity, World Leader Summit, Kolkata, India, 2020.
- Panelist, Mediterranean Innovation Partnership, CNRS, Beirut, Lebanon, 2019.
- Panelist, IoT and AI, What is your impact, Paris, France, 2019.
- Panelist, Context Based Technologies to Enhance the Efficiency and Resilience of Agri Food systems in Lebanon.
- Economic and Social Commission for Western Asia (ESCWA), Beirut, Lebanon, 2019.
- Panelist, IoT for Agriculture, International Food Policy Research Institute (IFRPI) Global Food Policy, Beirut, Lebanon, 2019.