Cyber Security

Interview of Dr Krishnan Nair Sreekumar

Q1) Briefly explain about your research expertise.

A: My PhD research area is Wireless Sensor Networks and the title of my thesis is Privacy Preservation in Wireless Sensor Networks using Geometric Data Perturbation. Initially after my Engineering graduation in 1994 I was working in the IT industry mainly as Oracle DBA. Then I did my post graduation in Engineering in 2009 to 2011. Then I have completed my Doctor of Philosophy in the year 2017. After PhD I am working with SRM Instituite of Science and Technology in Chennai from June 2017 to till date. Now I am having a total of 14 years of industrial experience and 9 years of professional engineering teaching experience. Here in SRMIST I am handling courses like Machine Learning, Internet of Things, Data Science and Big Data Analytics etc. Two research scholars are now working with me in the area of Artificial Intelligence and Machine Learning. Lot of Bachelor of Engineering undergraduate students are also finished their final year projects under my guideship in the areas like Artificial Intelligence, Machine Learning, IoT, Data Science, Security, Wireless Sensor Networks etc. I have guided Master of Engineering post graduate students also. Now my research interests are Wireless Sensor Networks, Machine Learning, Artificial Intelligence, IoT, DBMS, Data Science. Currently working on a project on classification of adversarial attack on images with Samsung company team. Since I was working as Oracle DBA I am interested in database related projects also..

Q2) Let us know about your last five publications and last three conferences attended.

A: Last Five Publications: 1. • Sudhakar S, Subramaniyaswamy V, Sreekumar Krishnan Nair, Indragandhi V, Manikandan J and Logesh Ravi 2020, "Enhancing Cyber-Physical Systems with Hybrid Smart City Cyber Security Architecture for Secure Public Data-Smart Network", Future Generation Computer Systems. [SCI] IF – 7.10 2. • K. Sreekumar, Sarthak Sethi and Aaishik Dutta 2020, 'Synthetic Data Generation Study', International Journal of Advanced Science and Technology, vol.29, No. 6s, pp.2014-2019. [Scopus] 3. K. Sreekumar, Sourya Basu and Naveen Raj Shukla 2020, 'Image Colourization and Object Detection using Convolutional Neural Networks', International Journal of Psychosocial Rehabilitation, vol.24, issue 8, pp.1059-1062. [Scopus] 4. Rohit, Pradeep and K. Sreekumar 2020, 'Big Data Aanalytics and Mining for Effective Visualization and Trends Forecasting of Crime Data', Test Engineering & Management, vol.83, pp.11280 -11286. [Scopus] 5. K. Sreekumar, Vamshi Krishna and Hameedulla 2020, 'Fusion of Structural and Textural Features of Skin Cancer Recognition', Test Engineering & Management, vol.83, pp. 18680-18683 . [Scopus] Last Three Conferences: 1. Aritra Bhattacharya, Gunjan Chourasia and K. Sreekumar "Identification of' Fake Accounts in Facebook using Machine Learning" Second International Conference on Internet of Things ICIoT-2020" held on 17th to 21th February 2020 organized by SRM Institute of Science and Technology, Kattankulathur. 2. Participated as a Session Chair in "Second International Conference on Internet of Things ICIoT-2020" held on 17th to 21th February 2020 organized by SRM Institute of Science and Technology, Kattankulathur. 3. K. Sreekumar, Sourya Basu and Naveen Raj Shukla 'Image Colourization using Convolutional Neural Networks' Second International Conference on Internet of Things ICIoT-2020" held on 17th to 21th February 2020 organized by SRM Institute of Science and Technology, Kattankulathur. .

Q3) Has COVID-19 affected your research work while working on your current project? If yes, then how will you overcome it?

A: Covid-19 has affected the works initially as we cant work together. But slowly online helped to overcome the difficulties in the communication and the work completion..

Q4) What measures are you taking and challenges being faced to get rid of the current COVID-19 pandemic?

A: Online platform mode is a good solution to continue working without stoppage. Then hygienic measures like social distance, hand sanitizing and wearing mask are some of the safety measures..

Q5) Were you provided with relevant "information for participation" regarding conference and related issues?

A: Yes.

Q6) When are you planning to attend physical conferences in 2021 and what would be your preferred destination?

A: Mid of 2021. My preferred destination would be Asia and Europe..

Q7) How do you feel about translating your current research into innovation or spin-outs?

A: I will try my best to produce the outputs..

Q8) What are your suggestions to the scholars who are findings their paths in your research field?

A: Whenever they are in trouble or in confusion then they can contact me so that I will give them confidence and solution..

Q9) What do you find the difference in physical and virtual conference in collaboration with the other global experts?

A: Physical collaboration has its own advantages and unique characters like we can have face to face interactions. But virtual means we are feeling less effects..

Q10) How would your research contribute to human prosperity?

A: My research can help the society in implementing safety solutions and other life improving systems..