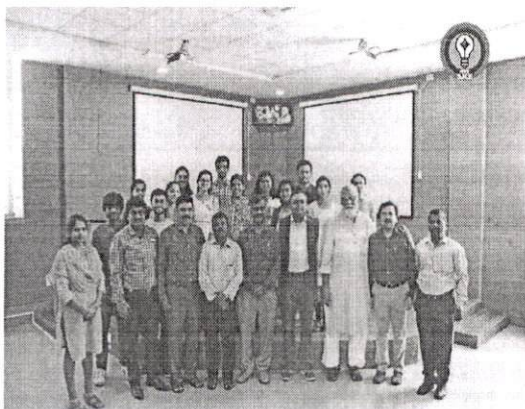


Report on Lecture on Music Signal Processing and Neural Networks held on 24th January 2020

A talk on Music Signal Processing and Neural Networks was held on 24th January 2020 at IS Seminar hall of JSS Science and Technology University. Talk was delivered Dr Shayan Srinivasa Garani of Dept of Electronics Systems Engineering, Indian Institute of Science, Bangalore. Talk was organized by IEEE-SJCE student chapter.

About the Speaker: Dr. Shayan Srinivasa Garani received his Ph.D. in Electrical and Computer Engineering from Georgia Institute of Technology – Atlanta, M.S. from the University of Florida – Gainesville and B.E. from SJCE, Mysore University (1997). Dr. Shayan Srinivasa has held senior engineering positions within Broadcom Corporation, ST Microelectronics and Western Digital. Prior to joining IISc, Dr. Shayan Srinivasa was leading in various research activities, managing and directing research and external university research programs within Western Digital. He was the chairman for signal processing for the IDEMA-ASTC and a co-chair for the overall technological committee. Dr. Srinivasa is a senior member of the IEEE, OSA, the chairman for the IEEE Data Storage Technical Committee and the past chairman (2015 – 2018) for the Photonic Detection group within the Optical Society of America. His research interests include broad areas of applied mathematics, physical modeling, coding, signal processing and VLSI systems architecture for novel magnetic/optical recording channels, quantum information processing, neural nets and math modeling of complex systems and music signal processing. Outside research and academics, Dr Shayan is a Carnatic classical vocalist.

Dr Sudarshan Patilkulkarni, Branch counselor of IEEE-SJCE introduced the speaker to the audience. Dr Shayan in his talk initially spoke in length about various fundamental concepts of music like pitch, octave and raga composition. He explained how to relate these music concepts in terms of signal processing. He explained how to model and synthesize a composition using the statistical tools. He demonstrated in live both music aspects and synthesized music generated by the machine. Students actively interacted with speaker by asking several questions. Talk was attended by faculty members JSSSTU and 6th semester students of EC department.



Report Prepared by

-Dr Sudarshan Patilkulkarni

26/01/2020

