Technical Presentation Session
Sponsored by IAS Young Professionals and Alumni of CMD

ENGINEERING & METHODS AND TOOLS (EMT)

The EMT Session Series hosted by

Jawaharlal College of Engineering and Technology (JCET) IEEE Student Branch & JCET SB IAS Chapter, Palakkad, Kerala, India

Local Organizers:

Mr. Madhu Krishnan, Chair, JCET IEEE SB IAS Chapter | Ms. Krishna V, Vice Chair, JCET IEEE SB IAS Chapter

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SESSION EMT1

Date: Thursday, 29 Oct 2020

Time:

12:00pm-01:30pm UTC (Coordinated Universal Time)

05:00am-06:30am PDT (Pacific Daylight Saving Time, UTC-7)

05:30pm-07:00pm IST (Indian Standard Time, UTC+5:30)

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Technology Predictions for Times of Pandemics

Power Point Presentation 30 min and Q&A 15 min

Dejan S. Milojicic

Distinguished Technologist, Hewlett Packard Labs., Palo Alto, CA, USA

Biography: Dejan is a distinguished technologist and director at Hewlett Packard Labs, Palo Alto, CA [1998-]. Previously, he worked in the OSF Research Institute, Cambridge, MA [1994-1998] and Institute "Mihajlo Pupin", Belgrade, Serbia [1983-1991]. His areas of expertise include system software and distributed systems. He received his PhD from University of Kaiserslautern, Germany (1993); and MSc/BSc from Belgrade University, Serbia (1983/86). Dejan was a managing director of the Open Cirrus Cloud Computing testbed (2007-2011). Dejan has over 200 papers, 2 books and 59 granted patents. Dejan is an IEEE Fellow (2010), ACM Distinguished Engineer (2008), and HKN and USENIX member. He was president of IEEE Computer Society (2014) and IEEE Presidential candidate (2019). He has been on many conference program committees and journal editorial boards.

Abstract:

Predicting the future is never easy, it always entails a degree of uncertainty, if not luck. Predicting technology trends is even harder as it requires both technical and business acumen, e.g., whether the technology will be developed, productized, and ultimately adopted on the market. It is almost an art to distill between a

fashion and a true scientific trend. At the same time, the public likes to read predictions and many individuals and organizations regularly write technology predictions, such as Gartner, MIT, Forbes, and many others. Predicting technology in times of pandemics carries even more weight as it deals with human lives and economies of many nations, and the humanity as a whole.

IEEE Computer Society started its technology predictions informally in early 2010 and formally via annual press releases in 2014. In 2016 we introduced scorecards for previous year. Our predictions reached substantial audience, e.g., in 2018, it was picked up by 300 media outlets (84.6M audience), entirely different from classical publishing. We consider predictions a new type of publication, a lightweight, short, approximately a paragraph per prediction. The predictions triggered other media outreach, such as blogs, interviews, panel sessions, and special issue of IEEE Computer magazine. In this talk, I will present history of predictions, followed by 10 technologies that may make a difference in addressing pandemics.

Approachable Diagnosis Methods and Tools for Critical Diseases: Rural and Urban Areas

Power Point Presentation 30 min and Q&A 15 min

Kalpana Chauhan PhD**,** Assistant Professor, Department of Electrical Engineering, Central University of Haryana.
Senior member of IEEE, WIE, IEEE student branch counselor and IAS advisor, WIE affinity group at Central University of Haryana.

Biography: Dr. Kalpana Chauhan graduated in Electrical and Electronics Engineering from the College of Engineering Roorkee, India. She received her M. Tech degree in Control and Instrumentation Engineering from Dr. B. R. Ambedkar National Institute of Technology Jalandhar, India and Ph.D. in Electrical Engineering from the Indian Institute of Technology Roorkee, India. She is working as Assistant professor, Department of electrical ngineering, Central University of Haryana. She has worked with Associate Professor Galgotias College of Engineering and Technology, India. She worked as Dean Research at SIRDA group of Institutions Sundernagar. She was associated with University of Texas at Austin as visiting scientist. She is a senior member of IEEE, WIE, IAS and Associate member of IE (India). She has received some reputed national and international awards for her research contributions in electrical engineering.

Abstract: The growth in the high level health technologies is not the final achievement. The availability of facilities to each and every person is essential. A step towards this is to develop some methods and tools of the diagnosis, which are approachable. Some critical diseases like heart diseases require instant diagnosis. This presentation is focusing on the approachable diagnosis methods and tools for cardiac diseases and their access to rural areas to the more populated urban areas.

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