

cordially invites you to

Distinguished Guest Lecture (DGL)

on

“Computational Biomedicine: An Engineer's Candy Store”

by



Prof. Gowri Srinivasa

Professor of CSE, PES University, Bengaluru

Abstract of the lecture:

'... chance favours only the prepared mind' are words attributed to Louis Pasteur, one of the most remarkable contributors to the advancement of biomedicine. What makes computational problems in biomedicine amenable to the application of traditional methods in Machine Learning? We will start by exploring the rationale behind feature engineering techniques as applied to biology and healthcare applications and understand some of the computational approaches that have been a success in multidisciplinary studies. We will then look at how deep learning has revolutionized the approach in other areas, yielding higher prediction accuracies and a solution paths to problems thought intractable with traditional methods. What are the challenges that are attendant with these data-driven approaches and what are directions that one, as a computer scientist or IT engineer, ought to take to leverage the positives from these approaches? How do we find our way in this proverbial candy store of computational opportunities? We will make a small attempt to understand these questions and figure out where the answers might lie.

About the Speaker:

Gowri Srinivasa graduated with a bachelors in Computer Science and Engineering from PES Institute of Technology, Bangalore in 2004 and then worked with Prof. Jelena Kovacevic to obtain her PhD in Biomedical Engineering from Carnegie Mellon University in 2008. Since August 2008, she has served as a Professor at PESIT Bangalore South Campus, India (now PES University), heading the Center for Pattern Recognition. She has worked with students at the undergraduate and graduate level on various problems focussing primarily on the application areas of Biomedicine/ healthcare and has designed and taught courses during the semester and over the summer in the fields of data analytics, image processing and analysis, machine learning, multi-resolution analysis, etc. Gowri is a Senior Member of the IEEE and has served as an Associate Member of the TC of Bio Imaging and Signal Processing (a sub-society of the IEEE SPS) during 2009-2013 and elected as a Member of the TC of BISP for two consecutive terms: 2014-2016 and 2017-2019. She holds a patent from the USPTO (2014) for a multimodal communication assist device that helps people who are blind communicate with deaf-mute persons.

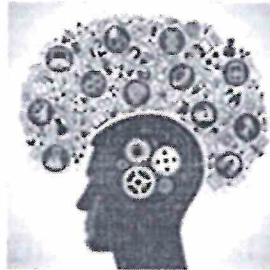
<p>Date: October 12, 2020</p>	<p>Time: 09.30 AM</p>	<p>Platform: Zoom https://zoom.us/j/97232103816?pwd=U0ZSWWxPZlJtM2JNMUs2Lj9SYzVMU109 Youtube: https://youtu.be/00SzLnQAxws</p>
<p>Sri. M.N.Vidyashankar Co Chairman, BITES</p>	<p>Dr. K. Rama Narasimha Principal/Director KSSEM, Bengaluru</p>	<p>Prof. KNB Murthy Chairman, BITES and Vice-Chancellor, DSU</p>

Distinguished Guest Lecture



On Computational Biomedicine: An Engineer's Candy Store

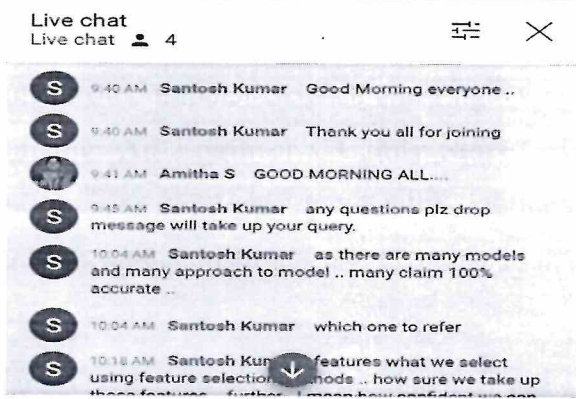
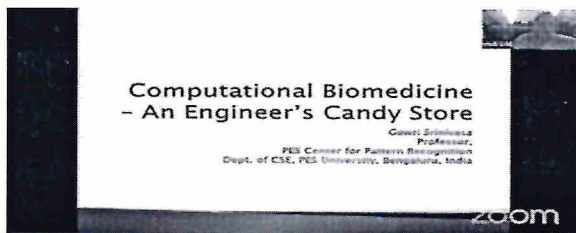
12 October 2020



Organized by
Department of Computer Science & Engineering
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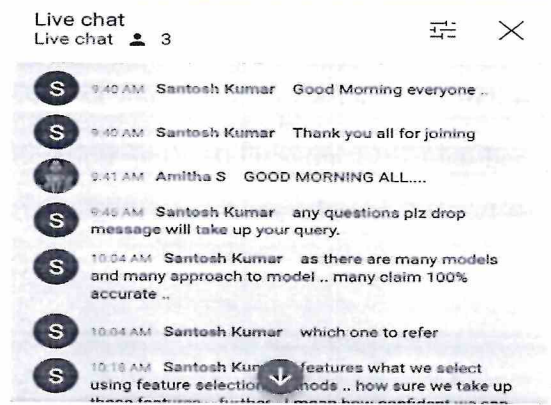
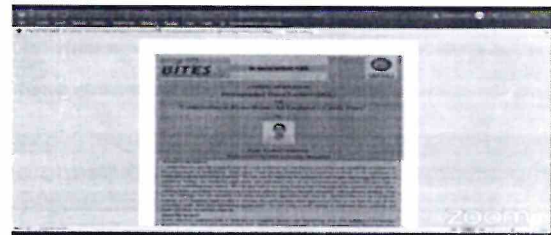
In association with
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Department of Computer Science and Engineering, KSSEM has organized a DGL on “**Computational Biomedicine: An Engineer’s Candy Store**” in association with BITES on 12th October 2020 from 9.30am to 12pm, through Zoom Online Platform and also, we were live on YouTube. Faculties from different educational institutes had participated in the DGL.



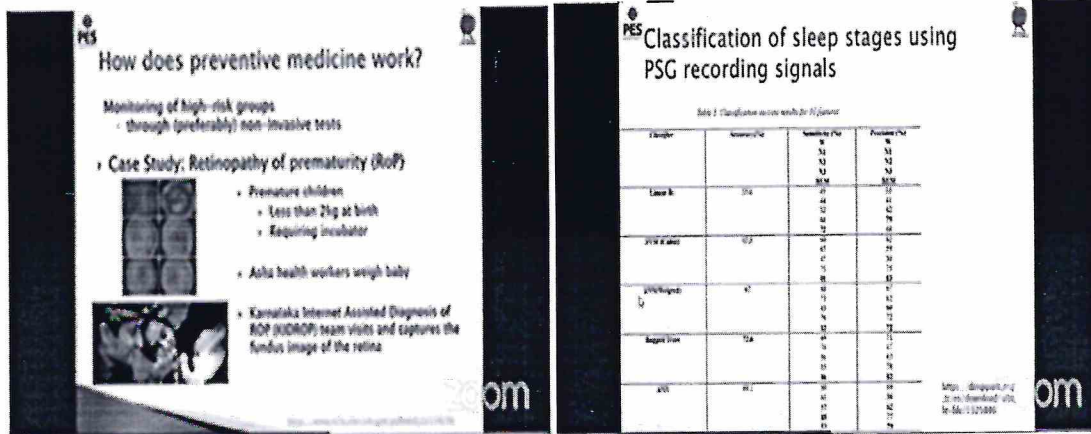
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The outcome of DGL was to gain the knowledge in Computational Biomedicine along with the comparison of traditional and modern diagnosis in the same.

Organizing Committee

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K.S. School of Engineering & Management
Bangalore-560 062

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Dr. K. RAMA NARASIMHA
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K.S. School of Engineering and Management
Bangalore - 560 109