



Learn Beyond

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600

Web: kpriet.ac.in

Social: kpriet.ac.in/social

BM002

NBA Accredited
(CSE, ECE, EEE,
MECH, CIVIL)

BRAIN COMPUTER INTERFACE

Event No	BM002
Organizing Department	Biomedical Engineering
Associate Dept. NSC	KPR Medical Centre
Date	18/05/2024
Time	09:30 AM to 11:30 AM
Event Type	Webinar
Event Level	Dept. Level
Venue	online
Meeting Medium	
Meeting Link	https://meet.google.com/hnm-douq-zbo

Related SDG



Involved Staffs

Sl	Name	Role
1	Sreelatha P	Convenor
2	Bharath V	Co-convenor

Outcome

Describes the role of signal processing and latest gadgets used to study brain activities

Event Summary

Dr. Ivan Tashev, a distinguished researcher from Microsoft Research, conducted an insightful webinar on Brain-Computer Interfaces (BCI). The event was a part of the 'Innovations in Neuroscience' series, attracting a diverse audience from academia, industry, and technology enthusiasts. Dr. Tashev's presentation began with an overview of the current state of BCI technology, emphasizing its potential to revolutionize various fields such as healthcare, communication, and entertainment. He highlighted the importance of interdisciplinary collaboration, combining neuroscience, engineering, and artificial intelligence to advance BCI capabilities. One of the key points discussed was the evolution of non-invasive BCI methods. Dr. Tashev elaborated on recent advancements in electroencephalography (EEG) and functional near-infrared spectroscopy (fNIRS) technologies, which have significantly improved signal acquisition and processing. These advancements are crucial for developing more user-friendly and practical BCI applications. Dr. Tashev also addressed the ethical and societal implications of BCI technology. He underscored the need for robust ethical frameworks to ensure that BCI applications are developed and used responsibly. Privacy, data security, and the potential for misuse were highlighted as critical concerns that need continuous attention. The webinar included a live demonstration of a BCI prototype developed by Dr. Tashev's team. The prototype showcased impressive real-time brain signal decoding capabilities, allowing users to control digital devices with their thoughts. This demonstration illustrated the practical applications of BCI in assisting individuals with disabilities, enhancing human-computer interaction, and even gaming. In the concluding Q&A session, Dr. Tashev encouraged young researchers to pursue careers in BCI, stressing the field's vast potential for innovation and societal impact. The webinar was highly engaging and provided valuable insights into the future of BCI technology, leaving the audience inspired and informed about the exciting possibilities ahead.

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DEPARTMENT OF BIOMEDICAL ENGINEERING

GUEST SPEAKER

Dr. Ivan Tashev
Partner Software Architect,
Microsoft Research (MSR),
Redmond, WA, USA

EXPERT TALK ON

**"BRAIN-COMPUTER INTERFACES:
ARE WE THERE YET?"**

11.05.2024 - 9.00 am
Venue: II BME
Classroom

GOOGLE MEET LINK:
<https://meet.google.com/pdf-acyg-avy>
Passcode: pdf-acyg-avy

Faculty Coordinators:
Dr. P. Sreelatha
Mr. V. Bharath

Student Coordinators:
Ms. G.V. Aishwarya - II BME
Mr. Abinash Das - II BME

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