DEPARTMENT OF ELECTRONICS AND COMMUNICATION

VISION

To create a centre for imparting technical education of international standards and conduct research at the cutting edge of electronics and communication technology to meet the current and future challenges of technological development.

MISSION

To create technical manpower for meeting the current and future demands of industry and academia: to recognize education and research in close interaction with electronics & communication & related industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the institute with sensitivity to social development and eye for opportunities for growth in the international perspective.

Research: The distance between an idea and its realization.

-David Sarnoff

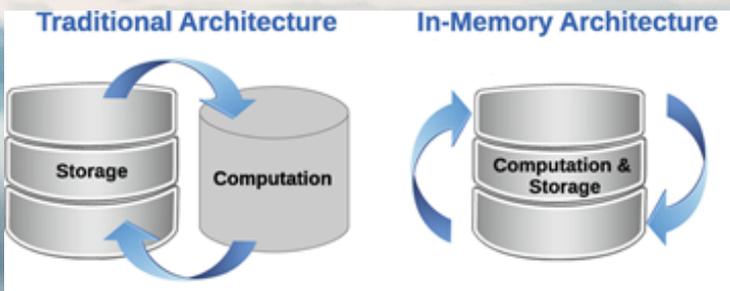| Faculty Name	Award Name	Activity	Given By	Year
Prof. Ghanshyam Singh	Secretary IEEE Photonics Society (PHO36-Rajasthan)	To coordinate activities for Delhi Section Chapter, PHO36-Rajasthan	IEEE	2021
Dr. Rajesh Saha	Best Paper Award	For Paper Presentation	4th Int. Conference Device 2021	2021

ARTICLE: IN-MEMORY COMPUTATION

In Memory Computation, is a technique of the future computing, which stroes data in RAM rather than in databases of slow disk drives. If we look data some AI applications in phones such as facial recognition , it requires not only larger memory but also faster memory.

In the current AI technology, the traditional computer architecture is facing more challenges due to increasing amount of data. The data is growing faster as compared to the computing performance and the movement of data between SSDs to CPUs causes energy problem.

In memory Computation is a growing technique to overcome the issue and quickly analyze large volume data in real time at very high speed, it is used in financial firms forr market surveillance machine learning, Artificial Intelligence to analyze massive data, marketing organizations to improve shopping experience, E-commerce sector and in many more fields.

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Anton Bourdine, Alexey Barashkin, Vladimir Burdin, Michael Dashkov, Vladimir Demidov, Singh Ghanshyam, et al. ,"Researches of Parameters of Chiral Few-Mode Optical Fiber Pilot Sample with Improved Height of Step Refractive Index Profile" , Proceedings of Telecommunication Universities Volume :7 / 6-19 / 2021

Gupta, M., Bhargava, L. and Indu, S ,"Mapping techniques in multicore processors: current and future trends(https://doi.org/10.1007/s11227-021-03650-6)" The Journal of Supercomputing Volume :77 / 1-6 / 2021

S. Singhal ,"CPW Fed Circular Sierpinski Terahertz Antenna For Superwideband Pattern Diversity Applications" , Optik – International Journal for Light and Electron Optics Volume :243 / 1-8 / 2021 ISBN: 0030-4026

S. Singhal ,"Asymmetrically Fed Trapezoidal Superwideband Pattern Diversity Antenna" , Optik – International Journal for Light and Electron Optics Volume :0 / 1-10 / 2021

ACTIVITIES ORGANIZED
72nd Republic day
(26-01-2021)

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