PROJECT

REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

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LITERATURE SURVEY-1

TITLE : Edge Artificial Intelligence for 6G: Vision, Enabling Technologies, and Applications

AUTHOR: Khaled B. Letaief , Fellow, IEEE, Yuanming Shi , Senior Member, IEEE, Jianmin Lu, and Jianhua Lu, Fellow, IEEE

YEAR OF PUBLISHED: 2021

REFERENCES

[1] Resilient and Intelligent NextG Systems (RINGS).

[2] Expanded 6G Vision, Use Cases and Societal Values.

[3] IMT-2030 (6G) Promotion Group, 6G Vision and Candidate Technologies.

[4] Network 2030: A Blueprint of Technology, Applications and Market Drivers Towards the Year 2030 and Beyond, document FG-NET-2030, ITU Focus Group on Technologies for Network, May 2019.

ADVANTAGES:

To further imbue native intelligence, native trustworthiness, and native sensing in 6G, mimicking nature for innovating edge AI empowered future networks can be envisioned. Inspired by the dynamic spiking neurons in the human brain, the energy consumption and latency of edge AI can be significantly reduced by processing the learning tasks in an event-driven manner

LITERATURE SURVEY-2

TITLE: Guest Editorial Special Issue on Artificial Intelligence and Machine

Learning for Networking and Communications

AUTHOR: Wolfgang Kellerer, Senior Member, IEEE,Yong Li, Senior Member, IEEE, Rolf Stadler, Senior Member, IEEE, Dacheng Tao, Fellow, IEEE,Yonggang Wen, Senior Member, IEEE, and Ying Zhang, Senior Member, IEEE

YEAR OF PUBLISHED: 2019

REFERENCES:

B. A. A. Nunes, M. Mendonca, X.-N. Nguyen, K. Obraczka, and T. Turletti, “A survey of software-defined networking: Past, present, and future of programmable networks,” IEEE Commun. Surveys Tuts., vol. 16, no. 3, pp. 1617–1634, 3rd Quart., 2014.

[2] Y. Li and M. Chen, “Software-defined network function virtualization:

A survey,” IEEE Access, vol. 3, pp. 2542–2553, Dec. 2015.

[3] R. Boutaba et al., “A comprehensive survey on machine learning

for networking: Evolution, applications and research opportunities,”

J. Internet Services Appl., vol. 9, no. 1, p. 16, Jun. 2018.

DRAWBACKS:

In this section we outline research topics that have attracted less attention to date by the research community and lack representation in the selected papers for this issue. We believe they are of high potential and should be investigated

to fully exploit AI/ML methods for networking and networked systems in general.