A Review of Artificial intelligence approaches to network management

摘要—。

***Index Terms*—Review,Artificial intelligence, Network Management**

I. Introduction

There are some labs focusing on AI or Self*(self-configuring, self-healing, self-optimizing and selfprotecting) Network or cognitive radio network.

Kumar, te al. [1] ,in 1997 a very early year, describe a pattern of the artificial intelligence in network management however little AI technologies are talked. Qi, et al. [2] provides us a comprehensive discussion in network management. Li Rongpeng, et al. [4] presents the artificial intelligence int context of 5G. [5], [6] from University of Waterloo are made review of machine learning. Jiang and Hanzo Lajos in [7] provides a machine learning paradigms.

II. Artificial intelligence

III. Overview of Network Management

A. Traffic

[8] is a review of traffic classification. Then a lot of papers [9]–[11] discuss about it.

[12] from Zhejiang University is about traffic prediction.

B. Throughput

[13]

C. Service Optimisation

[14] uses a reinforcement learning approach to optimize service.

[15], [16] presents reinforcement approachs to service slicing.

D. Routing Problem

Qadir [3] from Pakistan gaves us a review about congnitive routing. [17]

[18]

E. Fault management

[19]

F. Security

[20], [21]

G. Spectrum management

[22], [23]

H. Platform

[24]

IV. Opportunities and Challenges

V. Conclusion

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