Q-Learning Algorithm for VoLTE Closed-Loop Power Control in Indoor Small Cells



-

States of Squares

Faris B. Mismar and Brian L. Evans faris mamer (Butesia edu and bevans)(Becautesias edu

MOTIVATION

Downlink VoLTE Power Control (PC)

- . Network impairments impact SNR and data rates
- * LTE and SG NR do not have downlink power control
- . Link adaptation is instead used in the downlink
- * Network intelligence enables clearer communications
- Current prectical.
 - Diversity and more robust modulation and coding
- * Proposed
 - Reinforcement learning is used to maximize SINR.

Goal

- . Enable downlink power control for indoor voice bearer
- . Data is 60% likely so be on WV-Fit.

Approach

- Q-learning improves the downlink SINR through:
 - & Performing exploration and exploitation
 - & Running until it finds a near-optimal policy

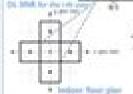
NETWORK MODEL

- An indoor OFOM-based cellular cluster in the FOO mode of operation.
- Multi-user multiple scores with one tier of neighboring cells.
 - ♦ Square geometry and insonaise distance of length £.
- Network impairments regularly occurring at random.
- PC keeps track of forward link SINR and potential radio impairments.

Ronword into budget for the info year

$$\frac{P(\mathbf{x}_{i})[t] = P_{TX}[t] + G_{TX} - L_{in} - L_{i,i}[t] + G_{TX}}{|\mathbf{x}_{i}|^{2} + \sum_{j: \mathbf{x}_{i} \in \mathcal{C}(j; \mathbf{x}_{i})} k_{j}[\mathbf{x}_{j}]^{2}} \begin{vmatrix} P_{TX}[t] + G_{TX} \\ P_{TX}[t] = \min\{P_{TX}^{\text{mon}}, P_{TX}[t-1] + \mathbf{x}_{j}[t]\}\} \\ P_{TX}[t] = \min\{P_{TX}^{\text{mon}}, P_{TX}[t-1] + \mathbf{x}_{j}[t]\}\}$$

$$P_{TX}[t] = \min\{P_{TX}^{\text{mon}}, P_{TX}[t-1] + \mathbf{x}_{j}[t]\}\}$$



POWER CONTROL (PC) ALCOHOTHIN ACTIONS AT THE I

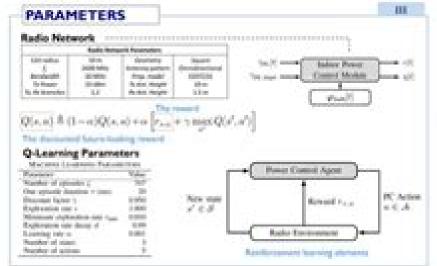
Agricol m	Debation
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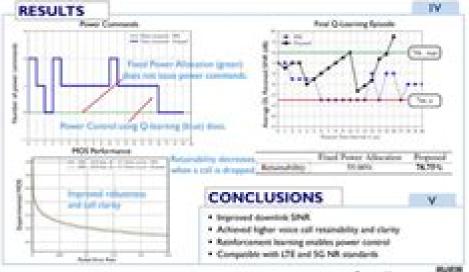
Algorithms

Vol.TE Power Control

Given the set of fault-handling actions $a \in A$ in a packetized voice frame c of duration T.

- Play an action it at random with it probability or based on max future reward with probability 1 — i
- 2) Change the downlink transmit power per o
- 3) Obtain the reward ray and the next state if
- 4) Update a and Chi. a) accordingly
- 5) Decay i and repeat for the next frame





Arturo Cuomo

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