**5g – Nền tảng công nghệ di động mới**

(Cập nhật đến ngày 23/8/2022)

Với cuộc sống ngày càng hiện đại, công nghệ cũng được nâng cấp phù hợp với nhu cầu ngày càng cao của con người. Kể từ khi hệ thống 1G được Nordic Mobile Telephone giới thiệu lần đầu tiên vào năm 1981, cứ khoảng 10 năm lại xuất hiện một thế hệ điện thoại di động mới. Các hệ thống 2G đầu tiên bắt đầu tung ra vào năm 1991, các hệ thống 3G đầu tiên xuất hiện lần đầu vào năm 2001 và hệ thống 4G hoàn toàn tuân thủ các tiêu chuẩn "IMT nâng cao" đã được chuẩn hóa vào năm 2012. Sự phát triển các hệ thống tiêu chuẩn của các mạng 2G (GSM) và 3G (IMT-2000 và UMTS) mất khoảng 10 năm kể từ khi các dự án R & D chính thức bắt đầu, và quá trình phát triển hệ thống 4G đã được bắt đầu từ năm 2001 hoặc 2002.[2][3] Các công nghệ làm tiền đề cho một thế hệ mới thường được giới thiệu trên thị trường từ một vài năm trước đó, ví dụ như hệ thống CdmaOne/IS95 tại Mỹ vào năm 1995 được xem là tiền đề cho 3G, hệ thống Mobile WiMAX ở Hàn Quốc năm 2006 được xem là tiền đề cho 4G, và hệ thống thử nghiệm đầu tiên cho LTE là ở Scandinavia năm 2009. Từ tháng 4 năm 2008, Machine-to-Machine Intelligence (M2Mi) Corp - một tổ hợp trong NASA Research Park - dưới sự lãnh đạo của Geoff Brown - bắt đầu phát triển công nghệ thông tin liên lạc 5G.

Để hiểu rõ hơn Cục Thông tin KH&CN quốc gia xin giới thiệu một số bài nghiên cứu đã được xuất bản chính thức và các bài viết được chấp nhận đăng trên những cơ sở dữ liệu học thuật chính thống.



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