

대학원 인공지능학과 & AI융합네트워크학과

Artificial Intelligence & AI Convergence Network Colloquium

Title : Computer Vision in Ericsson

When : 2021.3.16 (Tue.) A.M. 10:30 ~

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Speaker : Principal Data Scientist, Taesuh Park(Ericsson Inc.)

Abstract :

Wireless connectivity becomes more important than ever as the era of the 5G has arrived. To provide better user experience, telecommunications companies are actively proposing solutions to increase cell coverage, enhance throughput, mitigate interference, and reduce latency. Properties of the 5G spectrum band raise engineering challenges in the network design optimization and network roll-out for scaling up the cellular networks to another level. Powered by the recent deep learning revolution, Computer Vision is being adopted to tackle the challenges by resolving bottlenecks of the NDO and NRO. In this lecture, two recent works of Global AI Accelerator in Ericsson are introduced as the examples of the computer vision applications in telecommunication domain. For the indoor radio design, a “physics-free” approach of designing indoor radio dot layout for a floor plan is introduced by formulating it as an image-to-image translation problem and solved with customized dimension-aware conditional generative adversarial networks. For the outdoor small cell design, a new way of automating the finding and assessment of poles is explained.

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