

DISTINGUISHED LECTURE SERIES 2022/23

PAST, PRESENT, AND FUTURE OF FEATURE EXTRACTION

7 MAR 2023 (TUE)
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Online via Zoom

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Abstract:

It's been about a decade since the advent of deep learning. During this time, it has transformed not only the field of computer science, but also numerous scientific and industrial domains. One of the main advantages of deep learning is its ability to learn feature extractors. In this talk, we will review the statistical feature extraction methods developed by our research team before and after the advent of deep learning, and explore their relevance to state-of-the-art neural network architectures. We will also discuss the future direction of feature extraction, with an emphasis on the space - particularly the non-Euclidean space - that serves as the basis for deep neural networks construction.

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