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**Title 1: Machine Unlearning: A New Requirement of the AI Era**

**Abstract**:

Over the past decade, machine learning has experienced remarkable advancements, positively impacting our daily lives. Alongside this progress, a distinctive requirement has emerged—stemming from the AI era, in particular, from privacy concerns, usability considerations, and “the right to be forgotten”—leading to the development of a new concept known as machine unlearning. In this lecture, I will undertake a comprehensive exploration of machine unlearning. First, I will give the reasons behind the existence of this necessity. Second, I will talk about recent developments in this field. And then, I will introduce some corresponding solutions for unlearning, especially some of the recent work from my research group in machine unlearning.