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Domain adaptation for robust deep learning applications

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Deep learning has to create revolutions in the field of Artificial Intelligence. However, there is an unrealistic assumption that training and test data comes from the same distribution. This assumption does not hold in practical applications. An example includes, an autonomous car designed for Europe won't work directly in Indian scenario being visual data will be quite different. Spam email classifier intended for the general purpose may not work well for a specific user. Not only that there are applications where domain adaption will save tremendous efforts if implemented with the proper insight. There are also attempts to generalize the algorithms for any domain leads to Domain Generalization (DG). Combining DA/DG to few short learning and meta-learning also is a need of the day and a lot of work is in progress in those areas. The talk shall throw light on defining Domain Adaption and allied areas like transfer learning, few-shot learning, meta-learning and multitask learning. Also, few states of the algorithms in these areas, along with applications, will be discussed. The talk will end, giving a few directions for research.

Biography

An advocate and practitioner of emotional intelligence in workplaces, Dr Ketan Kotecha had his PhD from IIT Bombay. He is an avid researcher; he has various prestigious transnational projects under him. He is recipient of numerous grants from including two SPARC projects in Artificial Intelligence from Govt of India, ERASMUS + faculty mobility grants from European Union, LEAP (Leadership for Academicians Programmed) grant from MHRD Govt of India in collaboration with IIT Kharagpur and University of Cambridge UK, DUO- INDIA Professor fellowship under Asia - Europe Meeting (ASME-DUO) with Brunel University, UK, 2020. He is currently serving as Dean of faculty of Engineering and Head of Symbiosis Centre for Applied Artificial Intelligence at Symbiosis International University

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