

International Workshop on Signal Processing (IWSP 2018)

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Kish Island

Generative Adversarial Networks for Image and Signal Generation

by *Dr. Mahdiah Soleymani*

Abstract:

Generative adversarial network (GAN) is a class of learning algorithms introduced by Ian Goodfellow et al. in 2014. GAN consists of a generator and a discriminator network contesting with each other to improve the quality of generated samples. In fact, the generator network creates candidates and the discriminator evaluates them. GAN has shown some successful results in image generation, and a large amount of research have been developed in the last three years in which a wide variety of new ideas, techniques, and applications based on GAN have been introduced. According to these recent successes, it seems that GAN has great potential to be applied to image and also text and speech generations. We will introduce GAN and describe why it is powerful in generating data with sophisticated structures such as images, speech, and text.

About the speaker:

Dr. Mahdiah Soleymani received the BS, MSc, and PhD degrees from the Department of Computer Engineering, Sharif University of Technology in 2003, 2005, and 2010. She is an assistant professor of Computer Engineering in Sharif University of Technology since April 2012. She established the Machine Learning Lab in the Computer Engineering Department of this university in 2013. Her research interests include machine learning, deep learning, probabilistic modeling, and intelligent systems.

Location

Workshop venue: Iran Telecommunication Research Center (ITRC), North Kargar st., Tehran, Iran.

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