

SEMINAR ANNOUNCEMENT

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TOPIC	:	Data-Driven Evolutionary Optimization
SPEAKER	:	Prof. Handing Wang Xidian University
DATE	:	Friday, 16 July 2021
TIME	:	3.00PM to 4.00PM
WEBINAR	:	Join Zoom Meeting: https://nus-sg.zoom.us/j/81926751077?pwd=enhEVC9DMGkwM0ZEYWVvSDhEU3V2QT09 Meeting ID: 819 2675 1077 Passcode: 672221

ABSTRACT

Most evolutionary optimization algorithms assume that the evaluation of the objective and constraint functions is straightforward. In solving many real-world optimization problems, however, such objective functions may not exist. Instead, computationally expensive numerical simulations or costly physical experiments must be performed for fitness evaluations. In more extreme cases, only historical data are available for performing optimization and no new data can be generated during optimization. Solving evolutionary optimization problems driven by data collected in simulations, physical experiments, production processes, or daily life are termed data-driven evolutionary optimization.

Handing Wang received the B.Eng. and Ph.D. degrees from Xidian University, Xi'an, China, in 2010 and 2015, respectively.

She is currently a professor with School of Artificial Intelligence, Xidian University, Xi'an, China. Dr. Wang is an Associate Editor of IEEE Computational Intelligence Magazine, Memetic Computing, and Complex & Intelligent Systems. Her research interests include nature-inspired computation, multi objective optimization, multiple criteria decision making, surrogate-assisted evolutionary optimization, and real-world problems.

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