

Doctoral Dissertation

ANN-based Short-term Load Forecasting  
for Rolling horizon Operation of  
Microgrids

Department of Electrical Engineering  
Graduate School, Chonnam National University

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## NOMENCLATURE

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AI	Artificial Intelligence
ANN	Artificial neural network
AR	Auto regressive model
ARMA	Auto regressive moving average model
ARIMA	Auto regressive integrated moving average model
ARIMAX	Autoregressive integrated moving average with exogeneous model
ADN	Active Distribution Network
DG	Distributed generation
DBSCAN	Density-based clustering algorithm
DNN	Deep neural networks
DERs	Distributed energy resources
EMS	Energy management system
ESS	Energy storage system
FS	Feature selection
LR	Linear regression
LMBP	Levenberg-Marquardt back propagation
LTLF	Long-term load forecasting
MA	Moving average model
MLR	Multiple linear regression
MG	MicroGrid

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