

Acronyms

AF-CLOE	Adaptive filtered closed-loop output error algorithm
AFOLOE	Open-loop output error with adaptive filtered observations
ANC	Active noise control
ANVC	Active noise and vibration control
ARMA	Auto regressive moving average
ARMAX	Auto regressive moving average with exogenous input
ARX	Auto regressive with exogenous input
a.s.	asymptotically stable
AVC	Active vibration control
b	Vinnicombe stability margin
CLIM	Closed-loop input matching algorithm
CLOE	Closed-loop output error recursive algorithm
CLOM	Closed-loop output matching algorithm
ELS	Extended least squares
F-CLOE	Filtered closed-loop output error algorithm
FOLOE	Open-loop output error with filtered observations
FULMS	Filtered-U least mean squares algorithm
FUPLR	Filtered-U pseudo linear regression algorithm
FUSBA	Filtered-U stability based algorithm
FXLMS	Filtered-X least mean squares algorithm
FIR	Finite impulse response
GPC	Generalized predictive control
H_∞	H infinity control
IIR	Infinite impulse response
IMP	Internal model principle
I-PAA	“Integral” parameter adaptation algorithm
IP-PAA	“Integral + proportional” parameter adaptation algorithm
ITAE	Integral over time of absolute value of error
LTI	Linear time-invariant
LQC	Linear-quadratic control

LQR	Linear-quadratic regulator
LMS	Least mean squares
LS	Least squares
MBC	Model based control
OE	Output error
OEFC	Output error with fixed compensator
OLOE	Open-loop output error
PAA	Parameter adaptation algorithm
PRBS	Pseudo random binary sequence
PSD	Power spectral density
Q	Youla–Kučera filter
RELS	Recursive extended least squares
RLS	Recursive least squares
RML	Recursive maximum likelihood algorithm
RS	Polynomial digital controller
t	normalized sampling time (except in Section ?? where it is denoted by k)
T_s	Sampling period
v -gap	Vinnicombe gap
X-CLOE	Extended closed-loop output error algorithm
XOLOE	Output error with extended prediction model algorithm
YK	Youla–Kučera