

```

1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 %
3 % Integrated Modified OLS Estimation and Fixed-b %
4 % Inference for Cointegrating Regressions %
5 % by T.J.Vogelsang and M.Wagner %
6 %
7 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
8
9
10
11 List of key functions:
12 -----
13 (for more details see the descriptions in Matlab-files)
14
15 - IMOLS.m
16     (Computes the Vogelsang and Wagner (2014) IM-OLS estimator)
17     Input arguments:
18         - dependent variable y
19         - stochastic regressor matrix X
20         - deterministic regressor matrix D
21             or integer "d" to include polynomial regressors up to order d (default: 0)
22         - kernel for long-run variance computation (default: Bartlett)
23         - bandwidth for long-run variance computation or an appropriate computation procedure
24             (default: Andrews (1991) data dependent bandwidth selection method)
25         - significance level for t-tests (Default: 5%)
26
27 - t_test_2sided_fb.m
28     (Performs a two-sided fixed-b t-test)
29     Input arguments:
30         - value of test statistic (to be calculated with IMOLS)
31         - kernel used (in IMOLS) for long-run variance estimation
32         - fixed "b" used for long-run variance estimation
33         - highest order of deterministic polynomials
34             (critical values only implemented for intercept and intercept + linear trend case)
35         - number of integrated regressors
36             (critical values only implemented for maximum 4 regressors)
37         - significance level
38
39 - Wald_test_1sided_fb.m
40     (Perfomres a one-sided fixed-b Wald-test)
41     Input arguments:
42         - value of test statistic (to be calculated with IMOLS)
43         - kernel used (in IMOLS) for long-run variance estimation
44         - fixed "b" used for long-run variance estimation
45         - highest order of deterministic polynomials
46             (critical values only implemented for intercept and intercept + linear trend case)
47         - number of integrated regressors
48             (critical values only implemented for maximum 4 regressors)
49         - number of hypothesis
50             (critical values only implemented for up to 4 hypothesis)
51         - significance level
52
53     (If critical values for fixed-b based tests are not implemented,
54     the user is requested to enter the corresponding critical values,
55     available from
56     https://www.statistik.tu-dortmund.de/oekonometrie-research.html)
57
58
59 List of all functions included:
60 -----
61 (more information is given in the corresponding Matlab-files)
62
63 - And_HAC91
64 - bwNW
65 - IMOLS
66 - lr_var
67 - lr_weights
68 - poly_regressors
69 - t_test_2sided_fb
70 - Vhat_NEW
71 - Wald_test_1sided_fb
72 - Z_regressors
73
74
75 List of subfolders in IM-OLS:
76 -----
77
78 - criticalvaluesimolstests
79     (contains fixed-b critical values)
80
81
82 (Please do not rename the files unless you make sure the paths
83     are modified correctly)
84

```