

Annual Conference of the IEEE Industrial Electronics Society (IECON 2022)

Special Session on

“New Emerging Technologies in Disturbance Estimation and Rejection”

Organized by

Youwu Du (duyouwu@jsut.edu.cn)
Jiangsu University of Technology, China

Jinhua She (she@stf.teu.ac.jp)
Tokyo University of Technology

Daisuke Chugo (chugo@kwansei.ac.jp)
Kwansei Gakuin University, Japan

Mihoko Niitsuma (niitsuma@mech.chuo-u.ac.jp)
Chuo University, Japan

Call for Papers

Theme:

Industrial systems usually contain exogenous disturbances and plant uncertainties that degrade control performance. One effective way to address this problem is first to estimate the influence of the disturbances and uncertainties, then incorporate the estimate into a control law to suppress their effects to enhance the robustness of the control system. This special session aims at providing people with a platform to present new technologies in disturbance estimation and rejection, and to discuss the state-of-the-art research topics and challenges research ideas in the related fields with a broad interest. Contributors are welcome to submit their papers to this special session including disturbance estimation, disturbance rejection, uncertainty attenuation, equivalent input disturbance, robust control, system design, stability analysis, etc.

Topics of interest include, but are not limited to:

1	active disturbance rejection
2	disturbance observer
3	equivalent-input-disturbance-based approach
4	disturbance estimation
5	uncertainty attenuation
6	active control of technologies
7	robust control

Good quality papers may be considered for publication in the IEEE Trans. on Industrial Electronics, subject to further rounds of review.

8	motion control
9	mechatronics
10	Human-friendly interface

Sponsoring IES Technical Committee(s):

IEEE IES Technical Committee on Human factors <https://sites.google.com/view/ieee-ies-tc-hf>

Submissions Procedure:

All the instructions for paper submission are included in the conference website: <https://iecon2022.org/>

Deadlines:

Full paper submission:	April 15, 2022
Paper acceptance notification:	June 17, 2022
Camera-ready paper submission:	July 29, 2022