



VCCA21

# THE 6<sup>th</sup> INTERNATIONAL CONFERENCE AND EXHIBITION ON CONTROL AND AUTOMATION

## Hội nghị khoa học và Triển lãm quốc tế lần thứ 6 về Điều khiển và Tự động hoá

Nov. 3-5, 2021 - Ho Chi Minh City

### Organizers

Vietnam Automation Association (VAA)

### Collaboration agency

Ho Chi Minh National University (VNUHCM)  
Joint Stock Company VIETFAIR



## CALL FOR PAPERS

<http://www.vcca.engineer/vcca2021/en/>

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Vietnam International Conference and Exhibition on Control and Automation (VCCA) is held biennially by Vietnam Automation Association (VAA) aiming at promoting control engineering and automation technology in economic and social development. VCCA-2021 is the 6th Conference of the VCCA organized by the Vietnam Automation Association, hosted by Vietnam National University – HCMC and scheduled for 3 days from November 3<sup>rd</sup> to 5<sup>th</sup>, 2021.

### Conference Motto:

**Automation in the National Digital Transformation Program - Intelligence and Creativity**

### Topics of Interest:

**1. Automation:** Sensors and actuators; Smart I/O; Totally integrated automation systems; SCADA/HMI, DCS, CAD/CAM/CIM/CNC; Embedded systems, PLC, PXL, IPC technology; Models and simulations of manufacturing process; Process control; Laboratory automation; Measurement and control networks; Smart measurement systems; Microprocessors, SOC, DSP, FPGA and ASIC in control; Power electronics; Internet of things; Big data; Sensor networks; Artificial intelligence.

**2. Cybernetics:** System theory; Control theory; Nonlinear systems; Discrete and hybrid systems; System identification; State filters and observers; Robust control; Smart control, fuzzy, expert, neural and genetic systems; Motion control; Control of power electronics; Model and control of industrial robots; Autonomous vehicles, mobile robot control; Bio system control; Visual based control; Language, posture and behavior based control; Control of micro and nano systems; Electrical machine control, electrical drives and control of energy systems.

**3. Applications:** Digital transformation solution: Digital government, digital society, digital economics; Smart cities; Intelligent transportation systems; Process control in factories; Automation in ship industry; Automation in agriculture; forestry and aquaculture; Automation in drinking water and waste water treatment; Building management systems, smart home; Automation in mining, mineral extraction and metallurgy; Automation in machinery manufacturing; Automation in garment and shoemaking; Automation in energy sector, power systems and renewable energy; Control applications in aeronautics and space engineering, National security and defence applications; Education and training applications; Public health and medical applications; Natural calamity prevention and pollution treatment applications; Control and monitoring for city flood protection system; Other applications...

### Manuscript Submission:

Submitted papers to VCCA must be original, not previously published or accepted for publication elsewhere, written in Vietnamese or English and formatted in VCCA-2021 standard. Papers are submitted to <http://vcca.engineer/vcca2021/> before **July 31, 2021**. If a paper is accepted, at least one of the authors listed on the paper must attend the conference and present the paper. No-show papers will not be included in USB proceedings.

### Special Session Proposal

Sessions consisting of papers presenting a unifying theme from a diversity of viewpoints of research and training organization in control engineering and automation technology. Proposals should be emailed to program chair via [tqvinh@ioit.ac.vn](mailto:tqvinh@ioit.ac.vn).

### Advertisement and Exhibition

Exhibitors are invited to showcase, demonstrate and market control-related publications, software tools, prototypes, educational products, services.

### Sponsorship

The conference organizing committee highly appreciates and calls for financial support contributing to the success of the conference. Sponsors are advised to contact the Conference Organizing Committee. Sponsors will be announced at the conference.

### For detailed information please contact the Conference Organizing Committee:

Room 410, No. 24, Ly Thuong Kiet St., Hanoi; Tel: (+84) 24 3266 9648;; Vũ Huệ: 0983094278;

Email: [vaa@automation.org.vn](mailto:vaa@automation.org.vn)

### Timelines:

Full paper submission:

Notification of paper acceptance:

Camera-ready paper submission:

Registration:

Conference (scheduled):

April 20, 2021 – July 31, 2021

August 31, 2021 – Sept. 15, 2021

Sept. 30, 2021 – Oct. 5, 2021

Oct. 6, 2021 – Nov. 1, 2021

Nov. 3-5, 2021