

GROUP MEMBERS

Academic Staffs



Signal Processing
Biomedical Eng.
Intelligent Control

Prof. Ir. Dr. Siti Anom



Control System
Process Control
System Modeling

Assoc. Prof. Dr. Samsul Bahari



Intelligent Control
Computer Vision
Robotics

Prof. Dr. Mohammad Hamiruce



Automotive Electronic
Control
Intelligent Control
Energy Management
System
Energy Storage

Assoc. Prof. Ir. Dr. Mohd Khair



Control System
Biomedical Eng.
Noise/Vibration
Control

Assoc. Prof. Ir. Dr. Raja



Control System
Intelligent Control
System Modeling

Assoc. Prof. Ts. Dr. Azura



Intelligent Control
Biomedical Eng.
Twin Digital-
Modeling
Pattern Recognition

Assoc. Prof. Ts. Dr. Asnor



Control System
System Modeling
Artificial Intelligence
Fault Detection &
Diagnosis

Dr. Ribhan Zafira



Biomedical Eng.
Image Processing
Robotics

Ir. Ts. Dr. Hafiz Rashidi



Control System
Nonlinear Control
Robotics
Artificial Intelligence

Ts. Dr. Nor Mohd Haziq

Technical Staffs



Mr. Syed Ruslim



Mr. Mohammad Azmi

Contact us



eng.cssp@upm.edu.my



Control System & Signal Processing
Research Centre UPM



CONTROL SYSTEM &
SIGNAL PROCESSING
RESEARCH GROUP

Teaching . Research . Services

CSSP group is one of the three main research groups at the Department of Electrical & Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia (UPM), located in UPM Serdang.

Established in 1996, CSSP has consistently showcased its leadership, solidifying its position as one of the leading research centres for **control engineering** in Malaysia.

VISION

To be leading expert in the fundamentals of **control theory & its application in the industry** to enhance quality of life for the local & international communities.

MISSION

1. To **contribute** to knowledge in control engineering & related fields through systematic & comprehensive research.
2. To **educate** the community on control engineering applications & principles to enhance productivity & improve quality.

UNDERGRADUATE SUBJECT TAUGHT

1. Control Systems
2. Instrumentation & Measurement
3. Embedded Control System
4. Multivariable Control System
5. Signal Processing
6. Industrial Control Electronics
7. Intelligent Control System
8. Modeling & Simulation
9. Industrial Process Control
10. Control System Design



POSTGRADUATE PROGRAM

1. Doctor of Philosophy
2. Master of Science (By Research)
3. Master in Control System Engineering (By Taught Course)

FACILITIES



1. LAB VIEW & MATLAB Systems
2. Industrial standard PLC
3. Acoustic Data Collection & Analysis
4. Embedded System Development Board
5. Rigs for Algorithm Testing (servo, pendulum, twin rotor helicopter, robot arm)
6. Battery Testing & Monitoring
7. Battery Management System
8. Bird Slaughtering System
9. 3D Printer

TRAINING

1. LABVIEW Software & Hardware Implementation
2. MATLAB Simulink Integration
3. V-Shape Engineering Application
4. System Modeling & Simulation
5. Fault Detection & Diagnosis
6. Signal & Image Processing
7. 3D Printing
8. SolidWorks Software



COLLABORATIONS

UK-based Universities (Imperial, Surrey, Sheffield & Southampton)

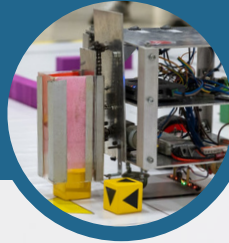
Korea Advanced Institute of Science & Technology, South Korea

Kyushu Institute of Technology, Japan

1. SIRIM Berhad
2. Malaysia Space Agency (MYSA)
3. Malaysia Nuclear Agency
4. PETRONAS
5. Local & International Automotive Company
6. National Instruments (NI)
7. Malaysian Research Institute on Ageing (MyAgeing)
8. Tenaga Nasional Berhad

CSSP RESEARCH FOCUS

1. Linear & Nonlinear Control Systems
2. Signal Processing & Machine Learning
3. Modeling & Optimization
4. Intelligent System Development
5. Artificial Intelligence
6. Fault Detection System
7. Engine Management System
8. Robotics & Vision



RECENT ACHIEVEMENTS

RM 18,332,000

RESEARCH INCOME

> 20 projects

RECORDED PROJECT

96 Ph.D. & 168 MSc.

STUDENT GRADUATED

78 Ph.D. & 10 MSc.

CURRENT STUDENT

17 patents & 4 IPR

INNOVATION

124 (8773 Citations)

GROUP'S H-INDEX (SCOPUS)

25 countries & 62 affiliations

COLLABORATORS

> 504 journals & 553 conferences

PUBLICATION

ACTIVITIES

1. Symposium on Control System & Signal Processing
2. Seminar on Postgraduate Research in CSSP
3. CSSP Students & Lecturers Gathering
4. MATLAB Workshop
5. Industrial Visit
6. Visiting Professor Program
7. Seminar on Control of Hybrid Dynamic Systems

