SAKET ADHAU

Postgraduate Student - Control Systems
✉ Department of Instrumentation and Control,
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EDUCATION

Master of Technology, Instrumentation and Control   June 2019

- College of Engineering Pune, India

  – CGPA: 7.89
  – Thesis Title: *Learning Based Model Predictive Control*
  – Supervisor: Prof. Dayaram Sonawane

Bachelor of Engineering, Instrumentation and Control   May 2017

- University of Pune, India & Government College of Engineering and Research, Avasari, Pune.

  – Mention: First Class with Distinction | Percentage: 69.67%
  – Project Title: *System Identification and PID Control of PMDC Motor using* MAT-LAB *and LabView*
  – Supervisor: Dr. M. R. Bongulwar

PUBLICATIONS

Articles in international conferences

- Adhau S., Patil S., Ingole D., and Sonawane D., "Implementation and Analysis of Nonlinear Model Predictive Controller on Embedded Systems for Real-Time Applications", *accepted for publication in Proceedings of the* 17th *European Control Conference (ECC'19)*, IFAC and IEEE, Naples, Italy, 2019.

- Adhau S., Phalke K., Nalawade A., Ingole D., Patil S., Sonawane D., "Implementation and Analysis of Offset-Free Explicit Model Predictive Controller on FPGA", *in the Proceedings of* 5th *Indian Control Conference*, IEEE, Delhi, India, 2018.

- Adhau S., Dani S., Ingole D., and Sonawane D., "Embedded Model Predictive Control on Low-Cost Low-End Microcontroller for Motor Speed Control", *in the Proceedings of International Conference for Convergence in Technology (I2CT)*, IEEE, Mangalore, India, 2018.

WORK EXPERIENCE

Bosch Chassis Systems India Pvt. Limited, Chakan, Pune.   July 2015

- Worked with the TeF department towards maintenance and predictive safety standards.

- Carried out analysis of Mean Time To Repair (MTTR) and Mean Time Between Repair (MTBR) on the assembly lines.

AWARDS AND FUNDING

- Project accepted for presentation in MATLAB Expo'19   2019
- Xilinx University Program – Development board and Software   2018

TECHNICAL EXPERTISE

- Programming languages: MATLAB/Simulink, C, C++, HTML, etc.
- Tools: Vivado, MPLAB, HDL coder, Visual Studio, LabView etc.
- Toolboxes: System identification toolbox, MPT, Protoip, ACADO Toolkit, CasADi, FORCES, etc.
- Embedded system design using microcontrollers, FPGAs, and PLCs
- Writing, presentation, and drawing: LaTeX, TikZ, Inkscape, Microsoft office suite
- Version control tools: GitHub, GitLab, Bitbucket.

RESEARCH INTERESTS

- Learning based methods for MPC
- Model predictive control
- Optimization
- Embedded systems

TRAINING

- Winter School on Optimization and Optimal Control - A Data-based Approach at COEP, India   2018
- Certificate course on embedded systems design, COEP, India   2018
- Certificate course on Ethical hacking, COEP, India   2016
- Certificate course on Matlab and Simulink, COEP, India   2014

PERSONAL DETAILS

- Full Name: Saket Sunil Adhau
- Citizenship: Indian
- Date of Birth: 29 May 1995

REFEREES

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