Academic Curriculum Vitae

Personal Information:

Full Name: DIYAR KHALIS BILAL
Academic Title: Lecturer
Email: (diyar.bilal@su.edu.krd)
Mobile:

Education:

- BSc in Mechanical Engineering (Salahaddin University – Erbil – Iraq – 2011)
- MSc in Mechatronics Engineering (Newcastle University – Newcastle Upon Tyne – UK – 2013)
- PhD in Mechatronics Engineering (Sabanci University – Istanbul – Turkey – 2021)

Employment:

- Assistant Lecturer Salahaddin University (2011-2016)
- Assistant Lecturer Sabis University (2015)
- Researcher Sabancı University Integrated Manufacturing Research and Application Center (SU-IMC) (2017 - 2021)
- Lecturer Salahaddin University (2021 - Current)

Qualifications

- Q-DAS for Design of Experiment Q-DAS for Design of Experiment by Hexagon AB Issued Dec 2021
- Q-DAS for Process Qualification and Hexagon AB Issued Dec 2021
- Beckhoff PLC Programming by Beckhoff Automation Issued May 2019
- KUKA ROBOT PROGRAMMING by KUKA Issued Feb 2019
- LabVIEW Programming by NI (National Instruments)Issued Dec 2017

Teaching experience:

- Undergraduate: -
    - Fundamentals of Mechatronics
    - Automation
    - PLC
    - Robotics
    - Microcontrollers
    - Mechanical Drawing
- Postgraduate:-
    - Instrumentation and Measurement

Research and publications

Development of a vision based pose estimation system for robotic machining and improving its accuracy using LSTM neural networks and sparse regression
DK Bilal, M Unel, LT Tunc, B Gonul
Robotics and Computer-Integrated Manufacturing 74, 102262

Realtime localization and estimation of loads on aircraft wings from depth images
DK Bilal, M Unel, M Yildiz, B Koc
Sensors 20 (12), 3405

Increasing trajectory tracking accuracy of industrial robots using SINDYc
DK Bilal, M Unel
IFAC-PapersOnLine 54 (4), 13-18

Conferences and courses attended

Improving vision based pose estimation using LSTM neural networks
DK Bilal, M Unel, LT Tunc
IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics

Localization and estimation of bending and twisting loads using neural networks
DK Bilal, M Unel, M Yildiz, B Koc
IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics

Improved vision based pose estimation for industrial robots via sparse regression
DK Bilal, M Unel, LT Tunc
Intelligent Computing Methodologies: 16th International Conference, ICIC

Funding and academic awards

- HCDP
- Sabanci University Scholarship
- TUBITAK 1003 project with grant number 217M078

Professional memberships

- List any membership you hold of any professional body or learned society relevant to your research or other life activities.

Professional Social Network Accounts:

- Diyar Khalis Bilal | LinkedIn
- Diyar Khalis Bilal - Google Scholar
- Diyar Khalis Bilal – Researchgate