

Vedecko-výskumná aktivita Ing. Martina Juhása, PhD.

Vo výskumnej oblasti sa venuje priemyselnej automatizácii a riadeniu procesov s orientáciou na mechatronické systémy. Aktivity zahŕňajú modelovanie, návrh a implementáciu riadiacich algoritmov a systémov, pracujúcich v reálnom čase, systémy riadenia pohybu, systémy pre zber a spracovanie dát, inteligentné meracie systémy, riadenie a spracovanie experimentálnych meraní s využitím platforiem informačných technológií. V ostatných rokoch sa jeho profesijný záujem plynulo rozvinul k aktivitám podporujúcim digitalizáciu v priemysle. Ako člen technickej normalizačnej komisie TK37 Informačné technológie dlhodobo prispieval k rozvoju technickej normalizácie v danej oblasti.

Ing. Martin Juhás, PhD. je autorom a spoluautorom 1 učebnice, 41 článkov a konferenčných príspevkov, 2 úžitkových vzorov, 1 národného a 2 medzinárodných patentov a iných publikácií. Svoje vedeckovýskumné výsledky predstavil na rôznych medzinárodných konferenciách. Na svoju publikačnú aktivitu doteraz dostal spolu 28 ohlasov indexovaných v databázach Web of Science, resp. Scopus. Systematicky sa zúčastňuje národných a medzinárodných grantových projektov, či už v pozícii hlavného riešiteľa, zodpovedného riešiteľa partnera projektu, alebo riešiteľa.

Publikačná činnosť

Výstupy v kategóriách: A+, A, A-, B **29 (7)**

A+ **4 (3)**

1. NOGA, Marek – JUHÁS, Martin – GULAN, Martin. Hybrid virtual commissioning of a robotic manipulator with machine vision using a single controller. In Sensors. Vol. 22, iss. 4 (2022), s. 1 – 17, art. No. 1621. ISSN 1424-8220 (2021: 3.847 – IF, Q2 – JCR Best Q, 0.803 – SJR, Q1 – SJR Best Q). V databáze: CC: 000762680100001 ; WOS: 000762680100001 ; SCOPUS: 2-s2.0-85124870212. Kategória publikácie do 2021: ADC
2. SEMAN, Pavol – ROHAĽ-ILKIV, Boris – JUHÁS, Martin – SALAJ, Michal. Swinging up the Furuta pendulum and its stabilization via model predictive control. In Journal of Electrical Engineering. Vol. 64, No. 3 (2013), s.152-158. ISSN 1335-3632 (2013: 0.420 – IF, Q4 – JCR Best Q, 0.221 – SJR, Q3 – SJR Best Q). Kategória publikácie do 2021: ADN

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Z toho výstupy v kategóriách: A+ a A **5 (3)****A+** **4 (3)**

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Ohlasy na publikačnú aktivitu

Ohlasy spolu

32 (17)

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