



INTERNATIONAL UNIVERSITY OF SARAJEVO
INTERNACIONALNI UNIVERZITET U SARAJEVU

International University of Sarajevo			
PRIMLJENO-ARHIVE 02.11.2023			
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BILINGUAL REPORT – DVOJEZIČNI IZVJEŠTAJ

COMMITTEE FOR PREPARATION OF PROPOSALS FOR APPOINTMENT INTO ACADEMIC TITLE OF ASSISTANT PROFESSOR FOR THE SCIENTIFIC FIELD OF "COMPUTER SCIENCE"

To the Faculty Council of the Faculty of Engineering and Natural Sciences

Per Article 124 of the Law on Higher Education ("Official Gazette of Sarajevo Canton" 36/22) and based on the Decision of the Council of the Faculty of Engineering and Natural Sciences, number: IUS-FENS 06-3072/23, acting in accordance with the submitted Confirmation by the Faculty Secretary No. IUS-FENS 06-3048/23 (attached to this Report) the Committee for preparation of proposals for the appointment to academic title of Assistant professor for scientific area of *Computer Science*, composed of:

1. **Dr. Khaldoun Al-Khalidi**, associate professor at the Faculty of Engineering and Natural Sciences; appointed for the scientific area of *Computer Science*,
2. **Dr. Amal Mersni**, assistant professor at the Faculty of Engineering and Natural Sciences; appointed for the scientific area of *Computer Science*,
3. **Dr. Ozge Buyukdagli**, assistant professor at the Faculty of Engineering and Natural Sciences; appointed for the scientific area of *Computer Science*,

evaluated the application of Dr. Mohammad Saeed Jawad for the appointment to position of Assistant professor for the scientific area of *Computer Science* upon public vacancy announcement published in the newspaper *Nezavisne novine* and web page on October 4th, 2023, and submits the following

REPORT with a Proposal for Appointment to the Academic Title

Applicant's name: DR. MOHAMMAD SAEED JAWAD per his application for appointment into academic title of Assistant professor

Dr. Mohammad Saeed Jawad was born in Hama in 1975. He holds the citizenship of Syrian Arab Republic. Dr. Jawad graduated from Engineering & Computer Science at Ittihad University, UAE in 2003. He continued education at the University Sains Malaysia, where he obtained a degree of Master of Science in Computer Science in 2006. In 2015, Dr. Jawad received his PhD degree at the University Sains Malaysia with doctoral dissertation entitled *Adaptive Impulse-Based Ultra-Wide Band Transceiver Design for Short-Range Wireless Communication*.

Dr. Jawad holds the position of Senior Lecturer at UTHM University, Parit Raja, Johor, Malaysia since November 2020.



KOMISIJA ZA PRIPREMANJE PRIJEDLOGA ZA IZBOR U AKADEMSKO ZVANJE DOCENTA ZA NAUČNU OBLAST „RAČUNARSKE NAUKE“

VIJEĆU FAKULTETA PRIRODNIH I TEHNIČKIH NAUKA

Na osnovu člana 124. Zakona o visokom obrazovanju („Službene novine Kantona Sarajevo“ 36/22), postupajući na osnovu Odluke Vijeća Fakulteta prirodnih i tehničkih nauka, broj: IUS-36/22), FENS 06-3072/23 i Potvrde sekretara fakulteta, broj: IUS-FENS 06-3048/23, koja je sastavni dio ovog izvještaja, Komisija za pripremanje prijedloga za izbor u akademска zvanja za naučnu oblast „Računarske nauke“, u sastavu:

1. Dr. Khaled Al-Khalidi, vanredni profesor na Fakultetu prirodnih i tehničkih nauka Internacionallnog univerziteta u Sarajevu, izabran za oblast „Računarske nauke“,
2. Dr. Amal Mersni, docentica na Fakultetu prirodnih i tehničkih nauka Internacionallnog univerziteta u Sarajevu, izabrana za oblast „Računarske nauke“ i
3. Dr. Ozge Buyukdagli, docentica na Fakultetu prirodnih i tehničkih nauka Internacionallnog univerziteta u Sarajevu, izabrana za oblast „Računarske nauke“,

nakon izvršene analize prijave za zvanje docenta, podnesene po javnom konkursu od 04.10.2023. godine u dnevnim novinama „Nezavisne novine“ i internet stranici Internacionallnog univerziteta u Sarajevu, od strane aplikanta dr. Mohammeda Saeeda Jawada, Komisija podnosi *sljedeći*:

IZVJEŠTAJ sa prijedlogom za izbor u zvanje

Kandidat: DR. MOHAMMAD SAEED JAWAD, postupajući po prijavi za zvanje docenta

Dr. Mohammad Saeed Jawad je rođen 1975. godine u mjestu Hama. Državljanin je Arapske Sirijske Republike. Svoje univerzitsko obrazovanje započeo je na programu Inžinerstva i računarske nauke na Univerzitetu Ittihad u Ujedinjenim Arapskim Emiratima, gdje je diplomirao 2003. godine. Svoje akademsko obrazovanje je nastavio na Univerzitetu Sains Malaysia gdje je 2006. magistrirao u polju računarske nauke. Zvanje doktora nauka, dr. Jawad je stekao 2015. godine na Univerzitetu Sains Malaysia odbranivši doktorski disertaciju pod nazivom “Adaptive Impulse-Based Ultra-Wide Band Transceiver Design for Short-Range Wireless Communication”.

Dr. Jawad radi u zvanju višeg predavača od novembra 2020. godine na Univerzitetu Tun Hussein Onn, Parit Raja, Johor, Malezija (UTHM).



A. EDUCATION / OBRAZOVANJE

PhD / Doktorski studij	University Sains Malaysia	2015
MSc / Magistarski studij	Department of Computer Science of University Sains Malaysia	2006
BSc / Bachelor studij	Engineering & Computer Science, Ittihad University, UAE	2003

B. ACADEMIC WORK EXPERIENCE / AKADEMSKO RADNO ISKUSTVO

June 2011 – July 2015	Senior Lecturer at University Technical Malaysia Melaka (UTeM), UTeM, Melaka, Malaysia
October 2018 – October 2020	Team Leader and Principal Lecturer at Limkokwing University of Creative Technology, Cyberjaya, Selangor, Malaysia
November 2020 –	Senior Lecturer at UTHM University, Parit Raja, Johor, Malaysia

C. LIST OF SCIENTIFIC AND OTHER PUBLICATIONS / PREGLED NAUČNIH I DRUGIH RADOVA

1. "Adoption of knowledge-graph best development practices for scalable and optimized manufacturing processes" [MethodsX Volume 10 (2023) 102124] MS Jawad, C Dhawale, AAB Ramli, H Mahdin Methods X 11
2. Advanced convolutional neural network for accurate detection of different facial expression NAN Rhamie, MS JAWAD Applied Information Technology And Computer Science 4 (1), 1625-1636
3. Leverage Digital Transformation in Distance Learning for Maximum Students' Engagement by Utilization of the Integrated Technologies of Digital Twin, Extended Realities and ... M Hlayel, MS Jawad International Journal of Computing Sciences Research 7, 1594-1620
4. Intelligent Cybersecurity Threat Management in Modern Information Technologies Systems MS Jawad, M Hlayel Lightweight Cryptographic Techniques and Cybersecurity Approaches
5. Adoption of digital twin for sustainable manufacturing and achievements of production strategic-planned goals MS Jawad, P Chandran, AAB Ramli, HB Mahdin, ZB Abdullah, ... MethodsX 9, 101920
6. Adoption of Best Practices in Drafting Patents for Innovative Models of Modern Artificial Intelligence Solutions MS Jawad, M Khalil, HB Mahdin, M Hlayel Proceedings of the Future Technologies Conference (FTC) 2021, Volume 2, 34-39



7. An Efficient Approach for Uncertain Event Detection in RFID Complex Event Processing SSB Yaacob, HB Mahdin, MS Jawad, NAM Alduais, AK Sharma, ... JOIV: International Journal on Informatics Visualization 5 (4), 438-447
8. IoT-Based Contactless Body Temperature Scanning System for a Smart and Safe Campus TC Onn, NAM Alduais, J Abdullah, AMHY Saad, AA Ramli, HB Mahdin, ... 2021 4th International Symposium on Agents, Multi-Agent Systems and Robotics ...
9. Exploring the Role of Multi-Agent Systems in Improving K-Means Clustering Method MA Jubair, SA Mostafa, A Mustapha, MH Hassan, MA Salamat, MS Jawad 2021 4th International Symposium on Agents, Multi-Agent Systems and Robotics ...
10. Development of a Multi-Agent Approach for a Smart Library Management System BA Khalaf, NAM Alhammadi, SA Mostafa, AA Ramli, H Mahdin, S Kasim, ... 2021 4th International Symposium on Agents, Multi-Agent Systems and Robotics ...
11. Recent and Future Innovative Artificial Intelligence Services and Fields MS Jawad, H Mahdin, NAM Alduais, M Hlayel, SA Mostafa, ... 2021 4th International Symposium on Agents, Multi-Agent Systems and Robotics ...
12. Industrial Digital Twins Powered by Artificial Intelligence Solutions for Enhanced Product Life-Cycle Development M Hlayel, MS Jawad, H Mahdin, SA Mostafa, NAM Alduais, ... 2021 4th International Symposium on Agents, Multi-Agent Systems and Robotics ...
13. Intention to Use Intelligent Conversational Agents in e-Commerce among Malaysian SMEs: An Integrated Conceptual Framework Based on Tri-theories including Unified Theory of ... AO Ikumoro, MS Jawad International Journal of Academic Research in Business and Social Sciences 9 ...
14. Assessing Intelligence Conversation Agent Trends-Chatbots-AI Technology Application for Personalized Marketing AO Ikumoro, MS Jawad
15. AI Cloud-Based Smart Manufacturing and 3D Printing Techniques for Future In-House Production MS Jawad, M Bezradica, M Crane, MK Alijel 2019 International Conference on Artificial Intelligence and Advanced ...
16. Cloud Data Security Solution Based on Data Access Classification, Advanced Encryption Standard and Message Authentication Code MS Jawad Proceedings of the Future Technologies Conference (FTC) 2018: Volume 2, 141-157
17. Automated Deform Detection on Automotive Body Panels Using Gradient Filtering and Fuzzy C-Mean Segmentation MZB Edris, Z Zakaria, M Zin, MS Jawad Jurnal Teknologi 78 (6-8), 93-99
18. RF switches in wide-, broad-, and multi-band RF front-end of wireless communications: An overview AMS Zobilah, NA Shairi, Z Zakaria, MS Jawad
19. Surface defect detection and Neural Network recognition of automotive body panels MZB Edris, MS Jawad, Z Zakaria 2015 IEEE International Conference on Control System, Computing and ...



20. A High Speed Economical Industrial Control System “Programmable Controller for Industrial Automation”(PCIA) AST Hussain, SF Ahmed, F Malek, CF Azim, MS Jawad, NF Mohamed, ... Applied Mechanics and Materials 793, 585-589
21. Impulse-Based UWB for Next Generation Secure and Tunable Short-Range Wireless Infrastructures E Sanam, K Seman, MS Jawad, AST Hussain, MZ Jali Applied Mechanics and Materials 793, 535-540
22. Wind Turbine Farm as an Alternate Electric Power Generating System in Perlis-Malaysia AST Hussain, SF Ahmed, F Malek, MS Jawad, N Noorpi, GN Shasidharan, ... Applied Mechanics and Materials 793, 333-337
23. Efficient Power Generation for Smart Homes Based Titanium Dioxide (TiO₂) AST Hussain, F Malek, NA Azhar, MS Jawad, SF Ahmed, MA Jusoh, ... Applied Mechanics and Materials 793, 430-434
24. Study of TiO₂ Energy Gap Based Temperature Annealing for High Performance Solar Cells AS T. Hussain, F Malek, MS Jawad, SF Ahmed, AZ Abdullah, ... Applied Mechanics and Materials 793, 425-429
25. A review of antenna designs with harmonic suppression for wireless power transfer N Zainol, Z Zakaria, M Abu, MS Jawad, MM Yunus ARPN Journal of Engineering and Applied Sciences 10 (11)
26. Comparative study of antenna designs with harmonic suppression for wireless power transfer Z Nurzaimah, Z Zahriladha, A Maisarah, MS Jawad, MM Yunus World Applied Sciences Journal 33, 380-392
27. Enhance quality control management for sensitive industrial products using 2D/3D image processing algorithms M Al-Yoonus, MFL Abdullah, MS Jawad, F Al-Shargie 2014 Electrical Power, Electronics, Communicatons, Control and Informatics ...
28. Performance Analysis Comparative Study of Fingerprint Recognition Systems MS Jawad, F Al-Shargie, M Al-Yoonus, Z bin Zakaria
29. A low-loss coaxial cavity microwave bandpass filter with post-manufacturing tuning capabilities Z Zakaria, MS Jawad, N Omar, AR Othman, VR Gannapathy International Journal of Engineering and Technology (IJET) 5 (5), 4412-4422
30. Link-Budget Design and Analysis showing Impulse-based UWB Performance Trade-Off flexibility as Integrator Solution for Different Wireless Short-Range Infrastructures MS Jawad, AR Othman, Z Zakaria, W Ismail Editorial Preface 4 (9)
31. Recent trends on dual-and triple-band microwave filters for wireless communications Z Zakaria, N Omar, AR Othman, MS Jawad, A Ismail, A Salleh, W Sam Australian Journal of Basic and Applied Sciences 7 (10), 235-243
32. Investigation of Integrated Rectangular SIW Filter and Rectangular Microstrip Patch Antenna Based on Circuit Theory Approach Z Zakaria, WY Sam, MZA Abd Aziz, MS Jawad, MSM Isa International Journal of Advanced Studies in Computer Science and ...



33. Cross-layer architecture of impulse-based ultra wideband to support the integration of Radio Frequency Identification and wireless sensor network infrastructures MS Jawad, W Ismail, BH Ahmad Computers & Electrical Engineering 38 (4), 1010-1022
34. Optimizing network selection to support end-user qos requirements for next generation networks MS Jawad, W Ismail, MSJ Singh, K Kejuruteraan IJCSNS International Journal of Computer Science and Network Security 8 (6 ...
35. A COMPACT CIRCULAR MICROSTRIP ANTENNA WITH HARMONIC SUPPRESSION AT 2.45 GHZ N Zainol, Z Zakaria, M Abu, MS Jawad, MM Yunus
36. Power Spectrum: A Detailed Dataset on Electric Demand and Environmental Interplays MS Jawad, C Dhawale, AR Al Ali, AA Bin Raml Available at SSRN 4560823
37. Implementation of Data Mining from Social Media for Improved Public Health Care, Authors Mohammed Saeed Jawad, Wael Adi, Afaf Salem, Mohamed Doiher

The Committee finds that Dr. Jawad has published 37 papers which are relevant for appointment to the academic title of Assistant professor. Thus, Dr. Jawad meets this criterion of published at least 3 papers in acknowledge publications for appointment to the academic title of Assistant professor.

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Komisija nalazi da je Dr. Jawad objavio 37 naučnih radova, a koji su relevantni za izbor u akademsko zvanje docenta. Time je Dr. Jawad ispunio uslov objave najmanje tri naučna rada objavljenih u priznatim publikacijama za izbor u zvanje docenta.

G. INTRODUCTORY LECTURE

Dr. Mohammad Saeed Jawad does not need to deliver introductory lecture since he participated in the implementation of the teaching process at the higher education institution.

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Dr. Mohammad Saeed Jawad ne treba održati pristupno predavanje obzirom da je sudjelovao u realizaciji nastavnog procesa na visokoškolskoj ustanovi.

H - PROPOSAL AND RATIONALE

Based on the presented scientific work in this report, in accordance with the Law on Higher Education of Sarajevo Canton ("Official Gazette of Sarajevo Canton" No: 36/22), the Selection Committee unanimously propose to the Council of the Faculty of Engineering and Natural Sciences to appoint DR. MOHAMMAD SAEED JAWAD to the academic title of ASSISTANT



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BILINGUAL REPORT – DVOJEZIČNI IZVJEŠTAJ

PROFESSOR for the scientific area of "COMPUTER SCIENCE" at the Faculty of Engineering and Natural Sciences of the International University of Sarajevo.

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Na osnovu naučnog rada prezentiranog u ovom izvještaju, u skladu sa odredbama Zakona o visokom obrazovanju Kantona Sarajevo ("Službene novine Kantona Sarajevo" br: 36/22), Komisija za izbor jednoglasno predlaže Vijeću Fakulteta prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu da se DR. MOHAMMAD SAEED JAWAD izabere za nastavnika u naučnonastavnom zvanju DOCENTA za naučnu oblast "RAČUNARSKE NAUKE", na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu.

COMMITTEE / KOMISIJA

1. **Assoc. Prof. Dr. Khaldoun Al-Khalidi**

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(Signature / Potpis)

2. **Asst. Prof. Dr. Amal Mersni**

A handwritten signature in blue ink, appearing to read "A. Mersni".

(Signature / Potpis)

3. **Asst. Prof. Dr. Ozge Buyukdagli**

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(Signature / Potpis)