



TECGREMED MEMBER CV

Family Name	Al-kasasbeh
Name	Riad Taha
Institution	University of Jordan
Position	Professor of Mechatronics Engineering
Mother Language	Arabic
English (A1, A2, B1, B2, C1, C2)	C1

EDUCATION – WORK EXPERIENCE

Education:

- PhD, Doctor of philosophy (Ph. D) degree in (Technical science – Specialized in the controlling of biological and medical systems and electronic equipment) from Electrical Engineering University of Petersburg, Russia, 1993.
- Master of Engineering Science–Specialized in electronic equipment from V.I Ulyanov(Lenin) Electrical Engineering Institute of Leningrad , U.S.S.R 1990.

Work Experience:

- Aug. 2022- Present: Professor, Mechatronics Engineering Department, University of Jordan.
 - 2011-2022 , Professor , Mechatronics Engineering Department, Balqa Applied University
 - 2012-2013 visiting professor ,electrical engineering, zarqa university
 - 2006 2012 Konstanz University of Applied Sciences, Germany (Mechatronics engineering), research visits on DFG.
 - Visiting Professor of National ,Research University "Moscow Power Engineering Institute" (MPEI), Department of Biomedical Technology – February 2020.
 - Visiting Professor of Karaganda State Industrial University, Karaganda - Kazakhstan, Department of Electrical Engineering – September 2018.
- Conducted research that resulted in 57 publications in Scientific Journals and Conference.
 - Developed study material for 10 courses.
 - Taught Traditional classroom, Blended-Learning, and Online courses.
 - Involved in curriculum development and update of study plans.
 - Supervised graduation projects for 150 students.

PUBLICATIONS related the project topic

1-Nikolay Aleexevich Korenevskiy, Seregin Stanislav Petrovich,Riad Taha Al-kasasbeh, Ayman Ahmad Alqaralleh,Altyn A. Aikeyeva,Mohammad Al-Jund, Gennadij Vjacheslavovich Siplivyj, Mahdi Salman Alshamasin , Ivan Mikhailovich Kholimenko ,Sofia N. Rodionova,Maksim Ilyash, Managing infectious and inflammatory complications in closed kidney injuries on the basis of fuzzy models, Int. J. Medical Engineering and Informatics, Vol. 15, No. 1, 2023

2-Nikolay Aleexevich Korenevskiy,Alexander V. Bykov,Riad Taha Al-kasasbeh, Moaath Musa Al-Smadi,Altyn A. Aikeyeva,Mohammad Al-Jund,Etah T. Al-Kasasbeh,Sofia N. Rodionova,Maksim

Ilyash, Ashraf Shaqadan Development of a Fuzzy Diagnostic Model of Ischemic Disease of the Lower Limbs for Different Stages of Patient Management, Critical Reviews™ in Biomedical Engineering, Volume 50, Issue 4, 2022, pp. 13-30, DOI: 10.1615/CritRevBiomedEng.2022044974

3- Sergey Filist, Riad Taha Al-Kasasbeh, Olga Shatalova, Nikolay Korenevskiy, Ashraf Shaqadan, Zeinab Protasova, Maksim Ilyash, Mikhail Lukashov, Biotechnical system based on fuzzy logic prediction for surgical risk classification using analysis of current--voltage characteristics of acupuncture points, Journal of Integrative Medicine, 2022, <https://doi.org/10.1016/j.joim.2022.02.007>.

4- Nikolay A. Korenevskiy, Riad Taha Al-Kasasbeh, Ashraf Shaqadan, Yousif Eltous, Mahdi S. Alshamasin, Marina Anatolevna Myasoedova, Sofia N. Rodionova, Maksim Ilyash, Prediction of Occupational Diseases Due to Exposure to High Radiation Electromagnetic Environment Using a Fuzzy Logic Model, Critical Reviews™ in Biomedical Engineering, 49(6):41–55 (2022).

5- Riad Taha Al-Kasasbeh, Nikolay Alexeyevich Korenevskiy, Seregin Stanislav Petrovich, Chernega Marina Sergeevna, Aikeyeva Altyn Amanzholovna and Maxim Yuriovich Ilyash, Biotechnical system and fuzzy logic models for prediction and prevention of post-traumatic inflammatory complications in patients with blunt renal trauma International Journal of Biomedical Engineering and Technology, 2021 Vol. 37, No. 4, pp 395- 416.

6- Olga Shatalova ,Sergey Filist, Riad Taha Al-kasasbeh, , Altyn Aikeyeva, Nikolay Korenevskiy, Ashraf Shaqadan, Andrey Trifonov & Maksim Ilyash (2021) Developing neural network model for predicting cardiac and cardiovascular health using bioelectrical signal processing, Computer Methods in Biomechanics and Biomedical Engineering, DOI: 10.1080/10255842.2021.1986486.

INTERNATIONAL PROJECTS EXPERIENCE

1. Korea-Jordan Institute for Engineering Training (KIET, 2025-2029):

- Funding: USD 11 million
- Role: Assisting in proposal writing and management
- Focus Areas: AI, IoT, Cybersecurity, & Green Energy
- Objective: Establishing an advanced engineering training institute with international collaboration.



TECGREMED MEMBER CV

Family Name	Al-Habahbeh
Name	Osama
Institution	University of Jordan
Position	Professor of Mechatronics Engineering
Mother Language	Arabic
English (A1, A2, B1, B2, C1, C2)	C2

EDUCATION – WORK EXPERIENCE

Education:

- Jan. 2007– Jan.2010: Clarkson University, New York, USA. PhD in Mechanical Engineering, Dissertation title: "Integrated approach for physics-based reliability assessment of engineering systems". Courses taken: Monte Carlo simulation, Stochastic processes, Computational fluid dynamics, Seminar, ESL Academic writing III, (GPA: Very Good).
- Aug. 2006- Jan. 2007: University of Toledo, Ohio, USA. Enrolled in the engineering sciences PhD program, Courses taken: Advanced mechanics of materials, Advanced engineering mathematics I, Elasticity, (GPA: A-).
- Oct. 2002– Feb. 2005: The University of Jordan, Amman, Jordan. M.Sc. in Mechanical Engineering, Thesis title: "Composite LPG vessels as an alternative to steel vessels used in the local market". Courses taken: Optimum design, Computer-aided design and modeling, Mechanical vibrations, Advanced fluid mechanics, Fracture mechanics, Research methodology, Finite element method, Combustion, (GPA: Very Good).
- Sep.1990– Jan.1995: The University of Jordan, Amman, Jordan. B.Sc. in Mechanical Engineering. Graduation project: Fuel-oil heating by solar energy. Practical training: Automotive maintenance engineering at the General Transportation Corporation, (GPA: Good).

Work Experience:

- Aug. 2022- Present: Professor, Mechatronics Engineering Department, University of Jordan. (Feb.2011–Feb.2016: Assistant Professor), (Feb.2016-Aug.2022: Associate Professor).
 - Conducted research that resulted in 57 publications in Scientific Journals and Conference.
 - Developed study material for 12 courses.
 - Taught Traditional classroom, Blended-Learning, and Online courses.
 - Involved in curriculum development and update of study plans.
 - Supervised graduation projects for 200 students and won the METS Award, KASIT, 2011 for developing a Delta robot, and the 8th National Technology Parade Award, 2015 for developing a Sumo robot.
 - Designed, built, programmed, and tested a smart robotic arm for harvesting olive fruits, in cooperation with the National Agricultural Research Center (NARC). The prototype development was jointly funded by the National Center for Research and Development (NCRD) and the Deanship of Scientific Research. Furthermore, the project involved the development of a Virtual reality model in partnership with ASFAN International Trading