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**COLLABORATIVE ROBOTICS AND ARTIFICIAL INTELLIGENCE IN THE
AUTOMOTIVE INDUSTRY: SMART ASSEMBLY AND AUTOMATED
QUALITY CONTROL**



Academician Isak Karabegović, Ph.D., is a Full Professor of Mechanical Engineering specializing in robotics, mechatronics, industrial automation, smart manufacturing systems, and Industry 4.0/5.0 technologies. He received his B.Sc., M.Sc., and Ph.D. degrees from the Faculty of Mechanical Engineering, University of Sarajevo, and completed part of his postgraduate studies at the University of Zagreb. He is the founder of the Faculty of Mechanical Engineering in Bihać and one of the founders of the University of Bihać, where he served as both Dean and Rector. Since 2018, he has been a Corresponding Member of the Academy of Sciences and Arts of Bosnia and Herzegovina. Prof. Karabegović is the author and co-author of more than 23 university textbooks and professional books and has edited or co-edited over 55 international conference proceedings and scientific monographs published by internationally recognized publishers, including Springer, IGI Global, and Nova Science Publishers. He has published more than 550 scientific papers in peer-reviewed international journals and conference proceedings. His research interests include industrial and service robotics, collaborative robotics, artificial intelligence applications in manufacturing, digital transformation, smart factories, and Industry 4.0/5.0 implementation. He is the founder of the Society for Robotics in Bosnia and Herzegovina and the long-standing organizer of the international scientific conference "New Technologies, Development and Application (NT)." Through his scientific and professional work, he has made significant contributions to the advancement of robotics and intelligent manufacturing systems in Southeast Europe.