

From

Professor Yuichi Chida, PhD.

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To

Professor Ing. Anton Gatial, DrSc.

Dean, Chairman of the Scientific Board FCHPT STU

**Letter of recommendation for the promotion of Dr. Juraj Oravec, Associate Professor, to full  
professorship**

06 November 2024

Dear Professor Ing. Anton Gatial, DrSc.,

It gives me immense pleasure to write this letter in support of Dr. Juraj Oravec's promotion to the position of "Full Professor" at Slovak University of Technology, Bratislava.

I am currently a Professor and Vice-Dean of the Faculty of Engineering at Shinshu University, Nagano, Japan. My research interest encompasses the area of control engineering, including control theory and its application to industrial processes and mechanical systems. I am a fellow of the Society of Instrument and Control Engineers (SICE), an academic community of control engineering in Japan. I am a recipient of three paper awards from the SICE in 1989, 1997, and 2023. I have also received four other paper awards from the Japan Society of Mechanical Engineers and other organizations. I have published five books and 116 academic papers during the course of my research career.

I first met Dr. Juraj Oravec at the 20th IFAC World Congress, held in Toulouse, France, in 2017, where we had an opportunity to discuss our research. Subsequently, we have had exchanges and collaborations on research topics of mutual interest, which have led to several research findings.

Recognizing that a Full Professor position requires an outstanding research record, I vouch for Dr. Juraj Oravec's accomplishments, which include 67 publications in the Web of Science

with 743 citations and an H-Index of 9 (as of November 1, 2024). Specifically, he has 18 publications, 42 scholarly papers, and 63 papers in international conference proceedings to his credit. The quality of his academic publications is quite commendable, with his targeted journal including IEEE Transactions on Automatic Control [IF:6.2], Automatica [IF:4.8], Annual Reviews in Control [IF:7.3], Energy [IF:9.0], and Applied Thermal Engineering [IF:6.1].

Dr. Juraj Oravec's research focuses on numerical methods in control system design. Particularly, he has led pioneering work in proposing highly efficient computational methods for solving real-time optimization problems in model predictive control. These results have been published in the aforementioned top journals in the field of control engineering. Furthermore, his findings have been applied to and effectively demonstrated on heat exchanger systems. In essence, his research covers a wide range of topics, from proposing new control methods to verifying their practicality. He is highly regarded as a well-connected and contributing researcher in international control community.

Dr. Juraj Oravec has supervised three doctoral degrees. One of them was awarded as an outstanding student. He has supervised 12 master's degree students and nine undergraduate students, seven of whom have received awards for excellence. In addition, he teaches six courses and 15 seminar courses at the university. As described above, he has a good track record not only in academic research but also in student teaching and educational guidance, and is judged to have sufficient qualifications as a professor.

I firmly believe that Dr. Juraj Oravec satisfies all the criteria generally applicable for a university professorship at an international university. I have no hesitation in supporting his application for the same.

Sincerely,

 

Professor Yuichi Chida

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