

**Celebrating the 45th Anniversary of the University of Macau: FED-CSAE Seminar:  
"Research-Infused Teacher-Led Innovations in Education: The Case of Students  
Making Mathematical Videos"**

**Centre for STEM and AI Education (CSAE), Faculty of Education**

**Date & Time:** 07 May 2026 (Tuesday); 14:00-15:00

**Venue:** Tin Ka Ping Lecture Hall, Faculty of Education (E33-G021)

**Language:** English

**Registration:** Online Registration (<https://umac.questionpro.com.au/t/ARsqfZSCPz> or  )

**Enquiries:** Mr. Alex CHEN (Email: fed\_event@um.edu.mo / Tel: 8822-4575)

**Speaker:**

Prof. Igor' KONTOROVICH is an Associate Professor of mathematics education at the University of Hong Kong. His scholarship focuses on the processes of mathematics learning and teaching, mostly at the secondary and undergraduate levels. In his research, he aims to offer theoretically-grounded and empirically-based insights to improve the teaching and learning for all students. These insights often emerge from research partnerships with teachers in schools and universities. His collaborative projects with colleagues from Canada, China, Israel, Italy, New Zealand, Poland, the UK, and the US have been funded by numerous funding agencies. The findings have been reported in over 100 research publications.

**Abstract:**

This talk will have a two-layer structure. In the outer layer, Prof. Kontorovich will argue that educational researchers and classroom teachers can productively collaborate around projects that leverage their complementary expertise. The layer will introduce a model for bi-directional knowledge mobilization between teachers and researchers. The model revolves around innovations that teachers lead in their instruction and that researchers assist to study in a disciplined manner. The inner layer will illustrate the model in action with an assignment, in which undergraduate students in a large first-year course video-recorded and peer-reviewed solutions to mathematical problems from past exams. A collaborative teacher-researcher inquiry into the impact of the assignment generated insights of practical and research value.