DEPARTMENT OF MECHANICAL ENGINEERING

SEMINAR

to be held on Thursday, January 23, 2020, 11:00
in the Seminar Room (#117) of the Mechanical Engineering Building (#55)
at the Campus of the Ben-Gurion University of the Negev

Extracting the invisible from live cell microscopy

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Abstract:

Cell imaging has entered the “big data” era with high content and multidimensional data sets encapsulating complex and dynamic patterns that are inaccessible by human visual observation and that are absolutely necessary for taking our understanding of the cell’s structure and function to the next level. Motivated by fundamental questions in cell biology, my lab produces biological insights along with specialized analytic tools that reveal hidden patterns in dynamic cell imaging data. I will demonstrate these concepts with several specific projects in my lab on cancer metastasis and developmental-related processes. No prior background in biology is required for this seminar.

Bio: Assaf Zaritsky is a Senior Lecturer in the Department of Software and Information Systems Engineering at Ben-Gurion University of the Negev (BGU), Israel. He received his B.Sc. and M.Sc. degrees in computer science at BGU, and Ph.D. in computer science at Tel Aviv University. He was a postdoctoral fellow at UT Southwestern Medical Center and joined BGU in October 2018. His research is in computational cell dynamics, at the interface of data science and cell biology. Lab’s website: https://www.assafzaritsky.com/, Twitter handle: @AssafZaritsky.