Technion-Israel Institute of Technology

Computer Science Department

Center for Graphics and Geometric Computing

CGGC Seminar

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Generative design & engineering

Recent advances in manufacturing techniques have greatly expanded the types and complexity of shapes that can be produced. At the same time, advances in AI (esp. machine learning) and physics driven algorithms (e.g., topology optimization) have enabled novel methods and workflows for design engineering. A new class of techniques collectively called Generative Engineering are being developed to revamp traditional design and manufacturing systems to enable industries to leverage the full capabilities of new manufacturing technology and create superior products. The Product Design, Modeling, and Simulation Research Group in the Simulation and Digital Twin Technology Field at Siemens Corporation, Corporate Technology works on developing novel, robust, and mature techniques for generative engineering suitable for adoption by industry. This talk will present an overview of recent research and development projects spanning several areas of generative design and engineering including novel geometry modeling approaches, algorithmic design synthesis methods, AI driven design exploration, and adaptive manufacturing.

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The lecture will be held on Thursday, 13.06.2019, at 11:00, Taub 401

הזמנה זו מהווה אישור כניסה עם רכב לטכניון