Curriculum Vitae

Name: Dávid Szeszlér
Work Address: Department of Computer Science and Information Theory
                    Faculty of Electrical Engineering and Informatics
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Education:
- 2006: PhD in Applied Mathematics, Budapest University of Technology and Economics, supervisor: András Recski
- 1998: MSc, Eötvös Loránd University, Mathematics Teacher and English Language Technical Translator (Diploma of Merit)

Work experience:
- 2011–: Aquincum Institute of Technology, Budapest
  - Lecturer of Combinatorial Optimization
  - Promotional talks at US universities and colleges (2012–)
- 2007–2010: International Business School, part time lecturer
  Courses taught:
  - Mathematics
  - Quantitative Methodology 1
  - Mathematical Tools for Business
- 2001–: Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics, Department of Computer Science and Information Theory
  Positions:
  - 2008– : associate professor
  - 2006–2008: assistant professor
  - 2001–2006: assistant lecturer
  Courses taught:
  - Introduction to Computer Science 1, B.Sc. program (lecture, seminar, advanced level seminar)
  - Introduction to Computer Science 2, B.Sc. program (lecture, seminar, advanced level seminar)
  - Foundations of Computer Science, B.Sc. program (seminar)
  - Elements of Computer Science, B.Sc. program (seminar)
  - Systems Optimization, M.Sc. program (lecture)
  - Combinatorial Optimization, M.Sc. program (lecture)
  - Combinatorial Optimization with Applications, M.Sc. program (lecture)
  - Advanced Mathematics for Electrical Engineers, M.Sc. program (lecture)
- 1998–2002: ELTE Radnóti Miklós Secondary School, part time teacher of mathematics.

Professional Positions:
- 2014–: Member, János Bolyai Mathematical Society
- 2009–2012: Member, Quality Assurance Committee, Faculty of Electrical Engineering and Informatics, Budapest University of Technology and Economics

Honors:
- 2016: "Excellent Teacher of the University of Technology" title, Student Council of the Budapest University of Technology and Economics
- 2015-2017: "Excellent Teacher of the Faculty of Electrical Engineering and Informatics" title, Faculty Council of the Faculty of Electrical Engineering and Informatics, Budapest University of Technology and Economics (Fall 2015, Spring 2016, Spring 2017: Gold Merit, Fall 2016: Silver Merit)
- 2015: "Excellent Teacher of the Faculty" title, Student Council of the Faculty of Electrical Engineering and Informatics, Budapest University of Technology and Economics
- 2011: "Excellent Young Teacher of the Faculty" title, Student Council of the Faculty of Electrical Engineering and Informatics, Budapest University of Technology and Economics
- 2005: "Farkas Gyula Prize" for young researchers under 35 in Applied Mathematics (János Bolyai Mathematical Society)

Community Service:
- 2000–: Leading interactive workshops on advanced mathematics in summer camps of the ELTE Radnóti Miklós Secondary School

Selected Publications:
- Security Games on Matroids, *Mathematical Programming*, 161:(1-2), pp. 347-364, 2017.
- Measuring Graph Robustness via Game Theory, *Proc. 10th Japanese-Hungarian Symposium on Discrete Mathematics and Its Applications*, pp. 473-482, Budapest, Hungary, 2017.
- Designing robust network topologies for wireless sensor networks in adversarial environments (with Aron Laszka and Levente Buttyán), *Pervasive and Mobile Computing*, 9:(4), pp. 546-563, 2013.
- Linear Loss Function for the Network Blocking Game: An Efficient Model for Measuring Network Robustness and Link Criticality (with Aron Laszka and Levente Buttyán), *Proc. Decision and Game Theory for Security*, pp. 152-170, Budapest, Hungary, 2012.
- Game-theoretic Robustness of Many-to-one Networks (with Aron Laszka and Levente Buttyán), *Proc. Game Theory for Networks*, Springer, pp. 88-98, Vancouver, Canada, 2012.

Selected Conference Talks:
- "Measuring graph robustness via game theory", 10th Japanese-Hungarian Symposium on Discrete Mathematics and Its Applications, Budapest, Hungary, May 2017
- "Security Games on Matroids", The 29th Conference of the European Chapter on Combinatorial Optimization, Budapest, Hungary, May 2016.
- "Hide and Seek in Digital Communication: The Steganography Game", 9th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications, Fukuoka, Japan, June 2015
- "Reliability of wireless sensor networks", 8th Japanese-Hungarian Symposium on Discrete Mathematics and Its Applications, Veszprém, Hungary, June 2013
- "Additive Approximation for Layer Minimization of Manhattan Switchbox Routing", International Symposium on Combinatorial Optimization, Hammamet, Tunisia, March 2010.