Jozsef Solymosi

Title:
Graphs, Networks and Their Applications

Abstract:
Graph theory is a beautiful part of mathematics. It has its own research line, understanding the structure of graphs under various constraints. Graphs can represent pairwise relations between objects. They are used to model complex systems from biology to machine learning. In this talk, I will explain some classical and new applications of graph theory. The specific areas of applications I will talk about are in

- Computer science
- Biology
- Social sciences
- Linguistics
- Business

Short Bio:
2001 Ph.D. Swiss Federal Institute of Technology (ETH) Zurich. Advisor: Emo Welzl.
2001-2003 S. E. Warschawski Assistant Professor, Department of Mathematics, University of California, San Diego
2002-2007 Assistant Professor, Department of Mathematics, University of British Columbia, Vancouver
2006-2008 Sloan Research Fellowship, The Alfred P. Sloan Foundation
2007-2008 Member, School of Mathematics, Institute for Advanced Study, Princeton
2007-2008 Charles Simonyi Endowment Fund (IAS)
2007-2011 Associate Professor, Department of Mathematics, University of British Columbia, Vancouver
2008 André Aisenstadt Mathematics Prize, The Centre de recherches mathématiques (CRM)
2010 Visiting Professor at the Ecole polytechnique fédérale de Lausanne
2011-present Professor, Department of Mathematics, University of British Columbia, Vancouver
2011 Visiting Fellow of the Isaac Newton Institute for Mathematical Sciences, Cambridge
2012 Doctor of the Hungarian Academy of Sciences
2014 Visiting Professor at the University of California Los Angeles, Institute for Pure and Applied Mathematics

2017 Erdős Lectures, Einstein Institute of Mathematics, The Hebrew University of Jerusalem
2018 NSF-CBMS Distinguished Lecturer, University of South Carolina
2018-2019 Visiting Researcher at the Renyi Institute of the Hungarian Academy of Sciences
2019 Visiting professor at the Yale University, New Haven
2021 Research Professor at the Obuda University, Budapest
2023 Simons Visiting Professor, The Mathematisches Forschungsinstitut Oberwolfach

Mathematical interest: Additive Combinatorics, Discrete and Computational Geometry, Graph theory, and Combinatorial Number Theory