

# Lecture 1

## First Steps in Graph Theory

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This lecture introduces Graph Theory, the main subject of the course, and includes some basic definitions as well as a number of standard examples.

**Reading:** Some of the material in today’s lecture comes from the beginning of Chapter 1 in

Dieter Jungnickel (2008), *Graphs, Networks and Algorithms*, 3rd edition, which is available online via [SpringerLink](#).

If you are at the university, either physically or via the VPN, you can download the chapters of this book as PDFs.

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### 1.1 The Königsberg Bridge Problem

Graph theory is usually said to have been invented in 1736 by the great Leonhard Euler, who used it to solve the Königsberg Bridge Problem. I used to find this hard to believe—the graph-theoretic graph is such a natural and useful abstraction that it’s difficult to imagine that no one hit on it earlier—but Euler’s paper about graphs<sup>1</sup> is generally acknowledged<sup>2</sup> as the first one and it certainly provides a satisfying solution to the bridge problem. The sketch in the left panel of Figure 1.1 comes from Euler’s original paper and shows the main features of the problem. As one can see by comparing Figures 1.1 and 1.2, even this sketch is already a bit of an abstraction.

The question is, can one make a walking tour of the city that (a) starts and finishes in the same place and (b) crosses every bridge exactly once. The short answer to this question is “No” and the key idea behind proving this is illustrated in the right panel of Figure 1.1. It doesn’t matter what route one takes while walking around on, say, the smaller island: all that really matters are the ways in which the bridges connect the four land masses. Thus we can shrink the small island to a

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<sup>1</sup>L. Euler (1736), *Solutio problematis ad geometriam situs pertinentis*, *Commentarii Academiae Scientiarum Imperialis Petropolitanae* **8**, pp. 128–140.

<sup>2</sup>See, for example, Robin Wilson and John J. Watkins (2013), *Combinatorics: Ancient & Modern*, OUP, ISBN 978-0-19-965659-2.

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