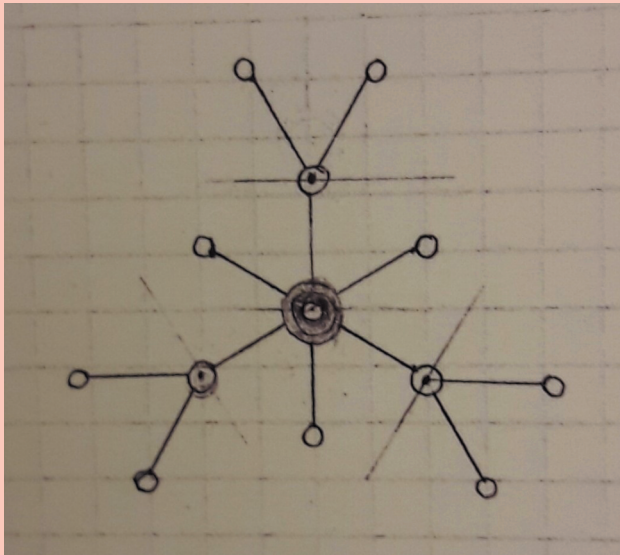


TREE GENERATION AND ENUMERATION

A collection of mathematical
ideas in graph theory



Jesse Sakari Hyttinen

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theory

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For my father

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I believe in inspiring and connecting people with mathematics. I also believe in sharing knowledge and passing it on to further generations. By making books and building a community for graph theory and treespeak enthusiasts, I can show people that mathematics is a form of art, a pinnacle of creativity, and a competitive game as well.

Whether you are a mathematician, student, teacher, enthusiast or hobbyist, I think this book can awaken your curiosity, and help you in your mathematical journeys. Especially if you would like to know about tree generation and enumeration, how trees are linked to partitions and what a Peano-like axiomatic system for rooted trees looks like.

Treespeak is about the subtle cooperation between vertex edge algebra and the tree generation algorithm. Feel free to check out the Treespeak tool / game in my website www.matladpi.com.

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