

## Multitype branching processes

finite number  $N$  of particle types. To define the particle production we need  $N$  generating functions, each in  $N$  variables,

$$f^{(i)}(s_1, \dots, s_N) = \sum_{j_1, \dots, j_N \geq 0} p^{(i)}(j_1, \dots, j_N) s_1^{j_1} \dots s_N^{j_N}, \quad i = 1, \dots, N, \quad (6)$$

where  $p^{(i)}(j_1, \dots, j_N)$  is the probability that a type  $i$  particle produces  $j_1$  particles of type 1,  $j_2$  of type 2,  $\dots$ ,  $j_N$  of type  $N$ , respectively. Let  $m_{ij}$  be the expected number

- Polling model is MTBP with immigration
- Switchover times: immigration in each state
- No switchover times: immigration in state zero

# Multitype Branching Processes

**Charles J. Mode**



## **Multitype Branching Processes:**

*Multitype Branching Processes* Charles J. Mode, 1971      *Workshop on Branching Processes and Their Applications* Miguel González, Inés M. Puerto, Rodrigo Martínez, Manuel Molina, Manuel Mota, Alfonso Ramos, 2010-03-02 One of the charms of mathematics is the contrast between its generality and its applicability to concrete even everyday problems Branching processes are typical in this Their niche of mathematics is the abstract pattern of reproduction sets of individuals changing size and composition through their members reproducing in other words what Plato might have called the pure idea behind demography population biology cell kinetics molecular replication or nuclear ssion had he known these scienti c elds Even in the performance of algorithms for sorting and classi cation there is an inkling of the same pattern In special cases general properties of the abstract ideal then interact with the physical or biological or whatever properties at hand But the population or bran ing pattern is strong it tends to dominate and here lies the reason for the extreme usefulness of branching processes in diverse applications Branching is a clean and beautiful mathematical pattern with an intellectually challenging intrinsic structure and it pervades the phenomena it underlies      **Multitype Branching Processes in Random Environments** Edward Wells Weissner, NORTH CAROLINA UNIV CHAPEL HILL DEPT OF STATISTICS., 1970 Consider the  $k$  type Galton Watson process The work removes the restrictive assumption that particles of the same type always divide in accordance with the same probability generating function  $p g f$  Instead it is assumed that at each unit of time Nature chooses a  $k$  vector of  $p g f$  s from a class of  $k$  vectors of  $p g f$  s independently of the population past and present and the previously selected  $k$  vectors which is then assigned to the present population Each particle of the present population then splits or disintegrates independently of the others in accordance with the  $p g f$  assigned to its classification This process is called a multitype branching process in a random environment MBPRE The work gives some necessary and some sufficient conditions for almost certain extinction of the MBPRE when there are at least two particle classifications To obtain these results Jensen s inequality the dual process suggested by Smith and Wilkinson and some results on products of random matrices are used Since the theorems require the user to evaluate limits of sequences of products of random arrays some corollaries are included which involve simpler albeit less general conditions Author      **Multitype branching processes** Charles Mode, 1971      **Branching Processes** K. B. Athreya, Peter E. Ney, P. E. Ney, 2004-03-19 A unified treatment of the limit theory of branching processes this volume focuses on basics and is appropriate for graduate and advanced undergraduate students The authors cover basic Galton Watson process potential theory one dimensional continuous time Markov branching processes age dependent processes multi type branching processes and special processes Exercises 1972 edition      *Branching Processes in Biology* Marek Kimmel, David E. Axelrod, 2006-05-26 In this book biological examples of Branching Processes are introduced from molecular and cellular biology as well as from the fields of human evolution and medicine and discussed in the context of the relevant mathematics providing a useful introduction on how the modelling can

be done and for what types of problems branching processes can be useful As an aid to understanding specific examples two introductory chapters provide background material in mathematics and biology This book will interest scientists who work in quantitative modelling of biological systems particularly probabilists mathematical biologists biostatisticians and cell and molecular biologists and bioinformaticians The authors of this monograph are a mathematician and a cell biologist who have collaborated in the field of Branching Processes for more than a decade

**Limiting Distributions for Critical Multitype Branching Processes** T. W. Mullikin,1961

**Branching Processes** C.C. Heyde,2012-12-06 This volume presents the edited proceedings of the First World Congress on Branching Processes The contributions present new research and surveys of the current research activity in this field As a result all those undertaking research in the subject will find this a timely and high quality volume to have on their shelves

**Multitype Branching Processes in Varying and Random [i.e. Random] Environment** Harry Cohn,Olle Nerman,1990

**Multitype Branching Processes** Steven Goldstein,1988 Stationary Measures for Multitype Branching Processes Fred Hoppe,1974 The multitype Galton Watson process is considered both with and without immigration Proofs are given for the existence of invariant measures and their uniqueness is examined by functional equation methods Author

*Critical Age-dependent Branching Processes* Martin Ivan Goldstein,1969

**Continuous-time Multitype Branching Processes Conditioned on Very Late Extinction** Sophie Pénisson,2011

**Branching Processes** Asmussen,Hering,2013-06-29 Branching processes form one of the classical fields of applied probability and are still an active area of research The field has by now grown so large and diverse that a complete and unified treatment is hardly possible anymore let alone in one volume So our aim here has been to single out some of the more recent developments and to present them with sufficient background material to obtain a largely self contained treatment intended to supplement previous monographs rather than to overlap them The body of the text is divided into four parts each of its own flavor Part A is a short introduction stressing examples and applications In Part B we give a self contained and up to date presentation of the classical limit theory of simple branching processes viz the Galton Watson Bienayme G W process and its continuous time analogue Part C deals with the limit theory of Ilarkov branching processes with a general set of types under conditions tailored to multigroup branching diffusions on bounded domains a setting which also covers the ordinary multitype case Whereas the point of view in Parts A and B is quite pedagogical the aim of Part C is to treat a large subfield to the highest degree of generality and completeness possible Thus the exposition there is at times quite technical

**Polling Systems and Multitype Branching Processes** J. A. C. Resing,Centrum voor Wiskunde en Informatica (Amsterdam, Netherlands). Department of Operations Research, Statistics, and System Theory,1991

**The Multitype Branching Process with Random Environment** Gerald Arnold Marin,1970

Limit Theorems for Multitype Continuous Time Markov Branching Processes and Some Classical Urn Schemes Krishna B. Athreya,1967

*Limiting Distributions for Critical Multitype Branching Processes with Discrete Time* T. W. Mullikin,RAND CORP SANTA MONICA

CALIF., Rand Corporation, 1961 The theory of branching processes treats the multiplication of objects subject to laws of chance It has been applied to such phenomena as bacterial fission cosmic ray showers and neutron chain reactions This report describes the probability law governing the descendants of a single object after many generations if on the average an object has just one surviving child in the language of reactors this is the critical case These results could be useful in the study of controlled nuclear reactions Author **Survival Probabilities for Some Multitype Branching Processes in Genetics** E. Pollak, 1988 **The Limiting Behavior of the 2-periodic Multitype Branching Process**, 2024

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