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Preface

The idea behind the series of volumes "Advances in Petri Nets" is to present to the general computer science community recent results which are the most representative and significant for the development of the area.

The main source of papers for "Advances" is the annual "International Conference on Applications and Theory of Petri Nets". The "best" papers from the latest conferences are considered for the series (however, they go through an independent refereeing process and, if accepted, they often appear in "Advances" in a quite revised and extended form). Independently of the conference papers, "Advances" present also papers submitted directly for publication in "Advances" - potential authors are encouraged to submit papers directly to the editor of "Advances".

The main aims of "Advances" are:

- (1) to present to the "outside" scientific community a fair picture of recent advances in the area of Petri nets, and
- (2) to encourage those interested in applications and the theory of concurrent systems to take a closer look at Petri nets and then join the group of researchers working in this fascinating and challenging area.

To facilitate (2) above, "Advances" also contain surveys and tutorials on various topics from Petri nets. The current volume contains a tutorial on refinements of Petri nets by W. Brauer, R. Gold, and W. Vogler, and a tutorial on analysis and synthesis of free choice systems by J. Esparza and M. Silva. The tutorials have been prepared in the framework of the ESPRIT BRA Project DEMON.

"Advances in Petri Nets 1990" covers the 10th "International Conference on Applications and Theory of Petri Nets" held in Bonn, Germany in June 1989. I would like to thank the members of the program committee and especially the chairman G. De Michelis for the help in selecting papers from the workshop to be submitted for "Advances".

Special thanks go to the referees of the papers in this volume who very often are responsible for considerable improvements of papers presented here. The referees were: P. Azema, R. Bhatia, W. Brauer, F. De Cindio, J.M. Colom, J. Desel, R. Devillers, J. Esparza, U. Goltz, R. Hopkins, J. Jeffrey, K. Jensen, P. Juanole, A. Kiehn, M. Koutny, M. Lindqvist, J.C. Lloret, Marinescu, J. Martinez, G. Memmi, T. Murata, M. Nielsen, G. Nutt, A. Pagnoni, L. Pomello, W. Reisig, C. Simone, V. Sliva, E. Smith, P.S. Thiagarajan, S. Tu, R. Valette, W. Vogler, K. Voss.

Leiden, November 1990

G. Rozenberg
Editor

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